Contents

General. Manipulation of air and moisture sensitive compounds was carried out under a dry nitrogen atmosphere using Schlenk tube techniques associated with a high-vacuum line or in the glove box which was filled with dry nitrogen. All solvents were purchased from Kanto Chemical Co. Inc., and was dried over activated molecular sieves. ^{1}H spectrum of **5** was recorded on a JEOL Lambda 400 spectrometer at ambient temperature, and ^{1}H, ^{13}C, ^{29}Si NMR spectra were recorded on a JEOL ECZ600R/M1 spectrometer. ^{1}H, ^{13}C, ^{29}Si NMR chemical shifts (δ values) were given in ppm relative to the solvent signal (^{1}H, ^{13}C) or standard resonances (^{29}Si: external tetramethylsilane). Elemental analyses were performed by a Thermo Scientific FLASH 2000 Organic Elemental Analyzer. IR spectra were recorded on a PerkinElmer Spectrum Two spectrometer. The starting compounds, $[Pd(CN^tBu)_2]_3$[1] and Si_4Ph_8 (**1c**)[2], Si_5Ph_{10} (**4**)[2] were synthesized by the method reported in the literature. All reagents were purchased from Tokyo Chemical Industries Co., Ltd. or Sigma-Aldrich, and were used without further purification.

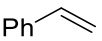
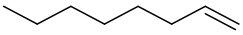
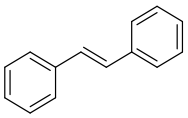
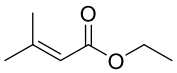
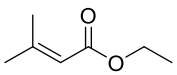
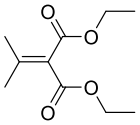
Synthesis of Pd_7Si_4 cluster 5. In a 50 mL schlenk tube, Si_4Ph_8 (19.1 mg, 2.62×10^{-2} mmol) was suspended in toluene (10 mL), then toluene solution of $[Pd(CN^tBu)_2]_3$ (50.0 mg, 0.183 mmol) was added to this solution at room temperature. The solution was stirred at room temperature for overnight. The obtained solution was centrifuged to remove the small amount of insoluble materials. The solvent was removed *in vacuo*, and the obtained solid was washed with pentane, then **5** was isolated as black power in 35 % yield (19.5 mg, 9.12×10^{-3} mmol). Crystals suitable for X-ray diffraction analysis were obtained by recrystallization from Et_2O/pentane at -20°C. ^{1}H NMR (400 MHz, r.t., C_6D_6): δ = 0.73 (br s, 9H, $CNCMe_3$), 0.86 (br s, 18H, $CNCMe_3$), 1.00 (br s, 27H, $CNCMe_3$), 1.04 (br s, 18H, $CNCMe_3$), 6.95-7.04 (m, 4H, Ph), 7.06-7.09 (m, 2H, Ph), 7.11-7.15 (m, 4H, Ph), 7.17-7.26 (m, 10H, Ph), 7.27-7.33 (m, 2H, Ph), 7.42-7.48 (m, 4H, Ph), 7.87-7.92 (m, 4H, Ph), 7.94-7.98 (m, 2H, Ph), 8.32 (br s, 5H, Ph), 8.56-8.60 (m, 4H, Ph). ^{13}C NMR (150 MHz, r.t., C_6D_6): 29.67, 30.16, 30.28, 30.35 (s, -C(CH_3)$_3$), 54.47, 55.15 (s, -C(CH_3)$_3$), 124.79, 125.08, 125.17, 125.53, 126.05, 126.05, 126.24, 126.30, 126.52, 126.76, 126.79, 137.01, 137.21, 137.49, 137.96, 138.24, 139.11 (Ph), 146.09, 146.48, 146.88, 148.80, 149.02, 150.44, 151.98, 152.16, 153.00, 153.42, 154.38 (*ipso* of Ph or $\underline{C}N^tBu$). ^{29}Si NMR (233 MHz, r.t., C_6D_6): -13.7 (s, $SiPh_3$), 15.1 (s, $SiPh_2$), 147.1 (s, $SiPh_2$), 332.5 (s, SiPh). IR (ATR): ν_{CN} = 2116, 2065 cm^{-1}. Anal calcd for $C_{88}H_{112}N_8Pd_7Si_4$; C 49.41, H 5.28, N 5.24; found: C 49.78, H 5.34, N 5.11.

Synthesis of Pd_7Si_5 cluster 6. In a 50 mL schlenk tube, Si_5Ph_{10} (243 mg, 0.27 mmol) was dissolved in toluene (10 mL), then toluene solution of $[Pd(CN^tBu)_2]_3$ (509 mg, 0.62 mmol) was added to this solution at room temperature. The solution was stirred at 60 °C for overnight. The obtained solution was centrifuged to remove the small amount of insoluble materials. The solvent was removed *in vacuo*, and the obtained solid was washed with pentane, then **6** was isolated as black power in 87% yield (522 mg, 0.23 mmol). Crystals suitable for X-ray diffraction analysis were obtained by recrystallization from Et_2O/pentane at -20°C. ^{1}H NMR (400 MHz, r.t., C_6D_6): δ = 0.53 (s, 9H, $CNCMe_3$), 0.63 (s, 9H, $CNCMe_3$), 0.78 (s, 9H, $CNCMe_3$), 0.83 (s, 9H, $CNCMe_3$), 0.87 (s, 18H, $CNCMe_3$), 1.08 (s, 9H, $CNCMe_3$), 6.77-6.80 (m, 3H, Ph), 6.90-6.92 (m, 1H, Ph), 7.04-7.09 (m, 7H, Ph), 7.17-7.48 (m, 24H, Ph), 7.65-7.67 (m, 2H, Ph), 7.86-7.87 (m, 2H, Ph), 8.17-8.19 (m, 2H, Ph), 8.25-8.26 (m, 2H, Ph), 8.53-8.56 (m, 2H, Ph), 8.62-8.68 (m, 2H, Ph). ^{13}C NMR (150 MHz, r.t., C_6D_6): 29.62 (s, -C(CH_3)$_3$), 29.69 (s, -C(CH_3)$_3$), 29.80 (s, -C(CH_3)$_3$), 29.89 (s, -C(CH_3)$_3$), 30.27 (s, -C(CH_3)$_3$), 30.28 (s, -

C(CH_3)$_3$), 54.16 (s, -C(CH_3)$_3$), 54.26 (s, -C(CH_3)$_3$), 55.00 (s, -C(CH_3)$_3$), 55.10 (s, -C(CH_3)$_3$), 55.15 (s, -C(CH_3)$_3$), 55.97 (s, -C(CH_3)$_3$), 124.91, 125.15, 125.59, 125.76, 125.94, 126.36, 126.50, 126.71, 126.91, 127.19, 127.25, 127.64, 128.00, 128.39, 128.46, 136.45, 136.58, 136.97, 137.23, 137.47, 137.63, 138.70, 139.16, 140.13 (Ph), 152.21, 154.03, 154.13, 155.47 (*ipso* of Ph or $\underline{C}$N^{t}Bu, some peaks are missing despite). ^{29}Si NMR (233 MHz, r.t., C_6D_6): 13.2 (s, $SiPh_3$), 146.9 (s, $SiPh_2$), 190.7 (s, $SiPh_2$), 223.5 (s, $SiPh_2$), 324.0 (s, SiPh). IR (ATR): ν_{CN} = 2123 cm^{-1}. Anal calcd for $C_{95}H_{113}N_7Pd_7Si_4$; C 50.98, H 5.09, N 4.38; found: C 51.17, H 4.99, N 4.05.

General procedure for hydrogenation of alkenes catalyzed by 6. In a 50 mL flask, catalyst **6** (3.2 mg, 2mol% of Pd for the substrate) and alkenes (1 mmol) were suspended in cyclopentylmethylether (2 mL). The atmosphere in the flask was replaced by 1 atm of hydrogen. The resulting mixture was stirred at room temperature for the time indicated in Table S1. Then internal standard {anisole (108 μL, 1.0 mmol) or 1,4-bis(trimethylsilyl)benzene (222 mg, 1 mmol)} was added, and the conversion of the substrates and the yield of the products were determined by GC or ^{1}H NMR analysis. Detail conditions are described in the footnotes of Table S1.

Table S1. Hydrogenation of alkenes catalyzed by **6**.[a]

entry	cat.	cat. loading (mol%) (based on Pd)	time (h)	alkene	yield (%)[b]
1	**6**	2	6		95
2	**6**	2	6		94
3	**6**	2	6		>99
4	**6**	2	6		>99
5	**6**	2	6		34
6	**6**	2	6		>99
7	**Pd/C**	2	6		43
8	**6**	2	6		6

[a]All reactions were carried out using 1 mmol of the alkene in the presence of a catalytic amount of the Pd catalyst (2 mol% based on Pd) in cyclopentylmethylether (2 mL). [b]Yield of the product was determined by GC or ^{1}H NMR spectrum in the presence of an internal standard, which was used to determine the conversion of the starting material.

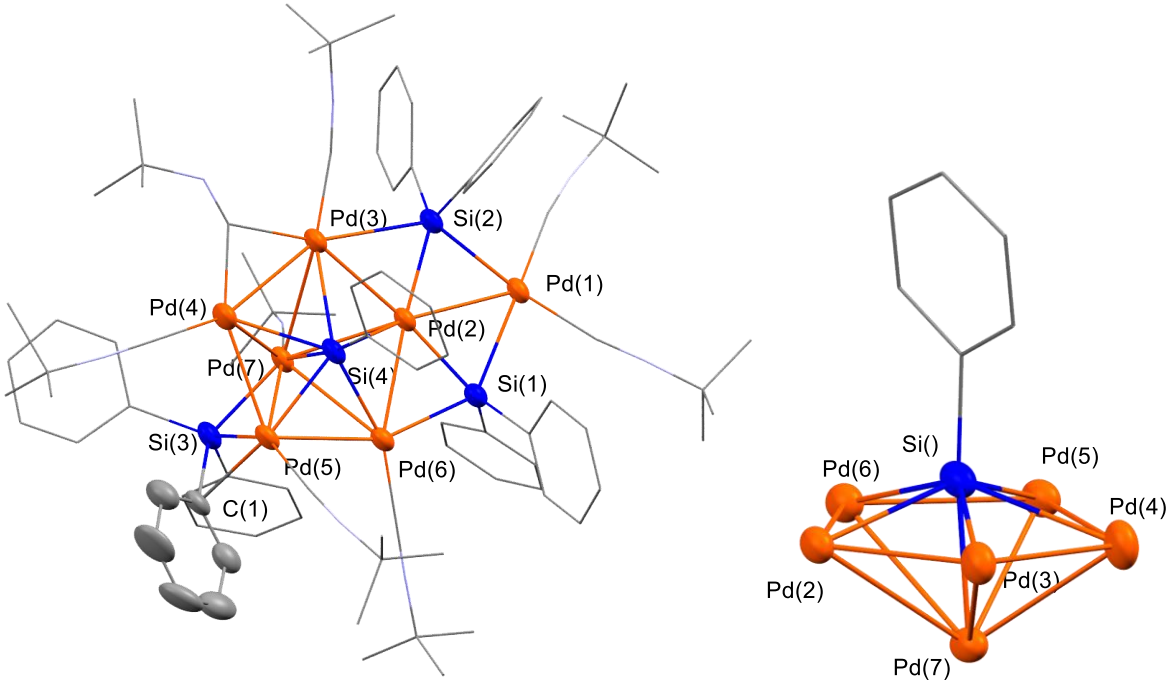


Figure S1. (left) Molecular structure of **5** with thermal ellipsoids at 50% probability. All carbon and nitrogen atoms are shown in wireframe style, and all hydrogen atoms are omitted for clarity. (right) Side view of the pentagonal bipyramidal substructure in **5**.

Table S2. Selected bond distances of **5**.

Bond distances (Å)			
Pd(1)-Pd(2)	2.7392(7)	Pd(1)-Si(2)	2.5336(18)
Pd(2)-Pd(3)	2.7548(7)	Pd(2)-Si(1)	2.3229(18)
Pd(3)-Pd(4)	2.7249(7)	Pd(2)-Si(2)	2.2588(17)
Pd(4)-Pd(5)	2.8260(7)	Pd(2)-Si(4)	2.3097(14)
Pd(5)-Pd(6)	2.7741(7)	Pd(3)-Si(4)	2.5627(18)
Pd(2)-Pd(6)	2.7114(7)	Pd(4)-Si(4)	2.5139(19)
Pd(2)-Pd(7)	2.8803(8)	Pd(5)-Si(4)	2.3904(18)
Pd(3)-Pd(7)	3.0718(8)	Pd(6)-Si(4)	2.5023(19)
Pd(4)-Pd(7)	2.7662(6)	Pd(7)-Si(4)	2.4155(19)
Pd(5)-Pd(7)	2.7421(6)	Pd(5)-Si(3)	2.667(2)
Pd(6)-Pd(7)	2.9676(8)	Pd(6)-Si(1)	2.4082(17)
Pd(1)-Si(1)	2.5461(18)	Pd(5)-C(1)	2.389(7)

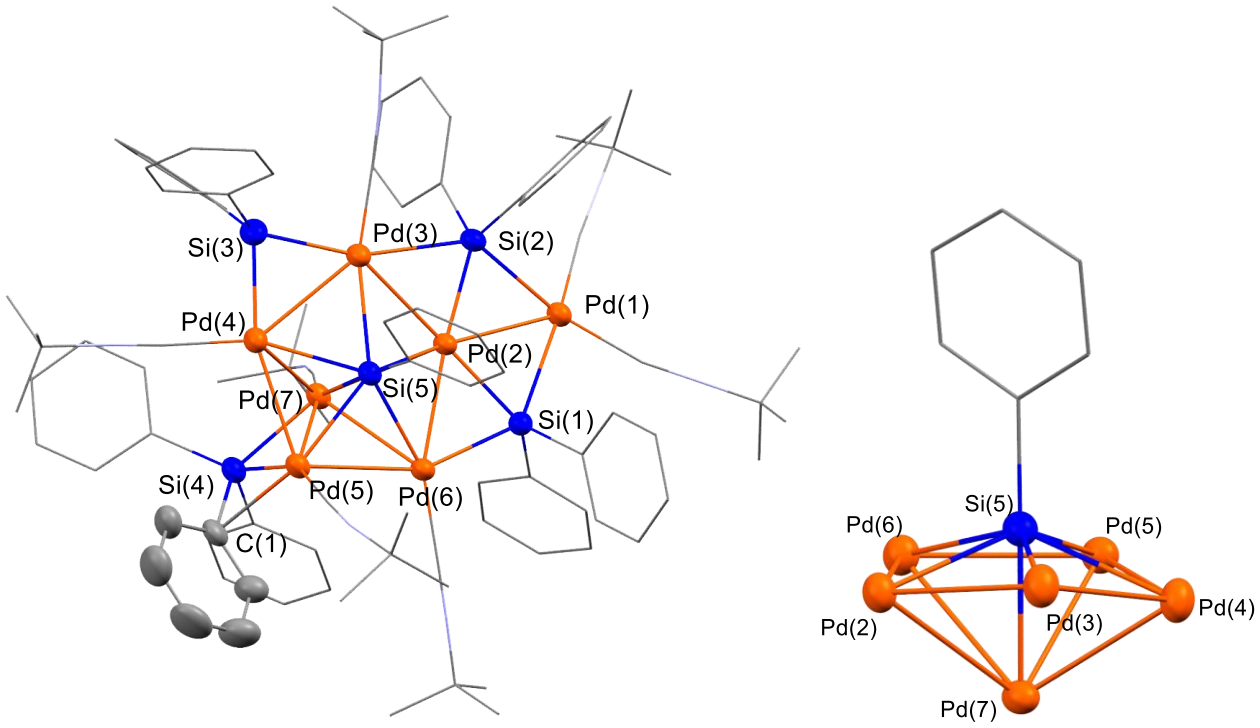


Figure S2. (left) Molecular structure of **6** with thermal ellipsoids at 50% probability. All carbon and nitrogen atoms are shown in wireframe style, and all hydrogen atoms are omitted for clarity. (right) Side view of the pentagonal bipyramidal substructure found in **6**.

Table S3. Selected bond distances of **6**.

Bond distances (Å)			
Pd(1)-Pd(2)	2.7370(6)	Pd(2)-Si(2)	2.2517(9)
Pd(2)-Pd(3)	2.7718(5)	Pd(2)-Si(5)	2.3111(9)
Pd(3)-Pd(4)	2.8053(7)	Pd(3)-Si(5)	2.5138(9)
Pd(4)-Pd(5)	2.7476(6)	Pd(4)-Si(5)	2.4513(9)
Pd(5)-Pd(6)	2.8134(6)	Pd(5)-Si(5)	2.4254(9)
Pd(2)-Pd(6)	2.6890(6)	Pd(6)-Si(5)	2.5113(9)
Pd(2)-Pd(7)	2.8779(6)	Pd(7)-Si(5)	2.4653(7)
Pd(3)-Pd(7)	3.4418(5)	Pd(3)-Si(3)	2.3016(10)
Pd(4)-Pd(7)	2.7807(4)	Pd(4)-Si(3)	2.2400(10)
Pd(5)-Pd(7)	2.6982(6)	Pd(5)-Si(4)	2.6302(9)
Pd(6)-Pd(7)	2.8524(5)	Pd(7)-Si(4)	2.3223(9)
Pd(1)-Si(1)	2.5326(9)	Pd(6)-Si(1)	2.4304(9)
Pd(1)-Si(2)	2.5337(9)	Pd(5)-C(1)	2.373(3)
Pd(2)-Si(1)	2.3058(9)		

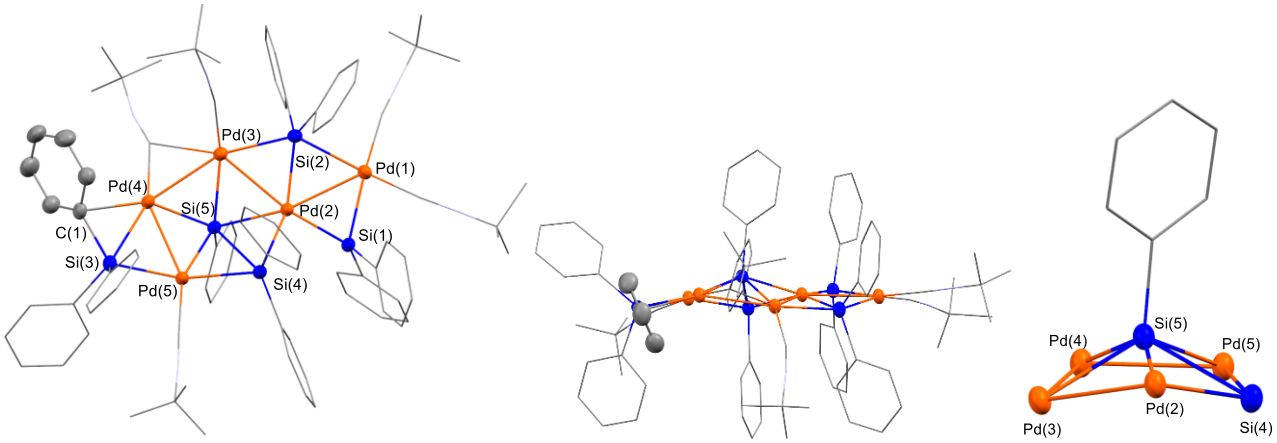


Figure S3. (left) Top view of the molecular structure of **7** with thermal ellipsoids at 50% probability. All carbon and nitrogen atoms are shown in wireframe style, and all hydrogen atoms are omitted for clarity. (center) Side view of the molecular structure of **7**. (right) Side view of the pentagonal monopyramidal substructure found in **7**.

Table S4. Selected bond distances of **7**.

Bond distances (Å)			
Pd(1)-Pd(2)	2.7914(6)	Pd(2)-Si(2)	2.3397(9)
Pd(2)-Pd(3)	2.7647(5)	Pd(2)-Si(4)	2.4288(10)
Pd(3)-Pd(4)	2.7670(6)	Pd(2)-Si(5)	2.3975(7)
Pd(4)-Pd(5)	2.7208(5)	Pd(3)-Si(5)	2.3841(7)
Pd(1)-Si(1)	2.3917(9)	Pd(4)-Si(5)	2.3771(8)
Pd(1)-Si(2)	2.5408(9)	Pd(5)-Si(5)	2.3393(9)
Pd(4)-Si(3)	2.5509(10)	Pd(5)-Si(4)	2.4766(9)
Pd(5)-Si(3)	2.4034(9)	Si(4)-Si(5)	2.4514(10)
Pd(2)-Si(1)	2.2472(9)	Pd(4)-C(1)	2.371(3)

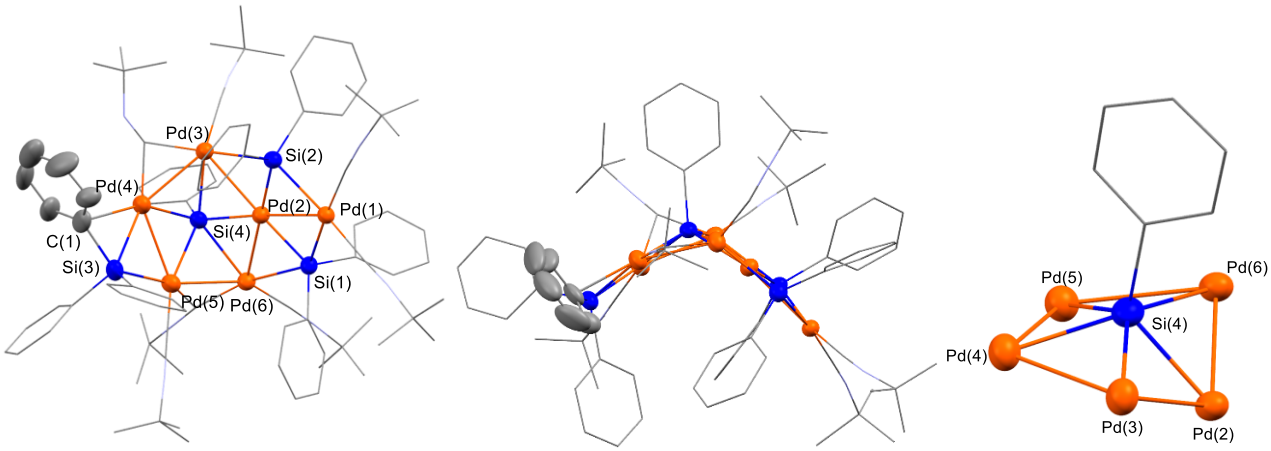


Figure S4. (left) Top view of the molecular structure of **8** with thermal ellipsoids at 50% probability. All carbon and nitrogen atoms are shown in wireframe style, and all hydrogen atoms are omitted for clarity. (center) Side view of the molecular structure of **8**. (right) Side view of the pentagonal monopyramidal substructure found in **8**.

Table S5. Selected bond distances of **8**.

Bond distances (Å)			
Pd(1)-Pd(2)	2.7469(11)	Pd(2)-Si(1)	2.263(3)
Pd(2)-Pd(3)	2.7591(11)	Pd(2)-Si(2)	2.263(3)
Pd(3)-Pd(4)	2.6984(11)	Pd(2)-Si(4)	2.275(3)
Pd(4)-Pd(5)	2.8175(11)	Pd(3)-Si(4)	2.473(3)
Pd(5)-Pd(6)	2.7634(12)	Pd(4)-Si(4)	2.352(3)
Pd(2)-Pd(6)	2.7514(11)	Pd(5)-Si(4)	2.352(3)
Pd(1)-Si(1)	2.538(3)	Pd(6)-Si(4)	2.603(3)
Pd(1)-Si(2)	2.525(3)	Pd(6)-Si(1)	2.598(3)
Pd(4)-Si(3)	2.445(3)	Pd(4)-C(1)	2.357(12)
Pd(5)-Si(3)	2.414(3)		

Figure S5-1. ^{1}H NMR spectrum of **5** in C_6D_6 at room temperature.

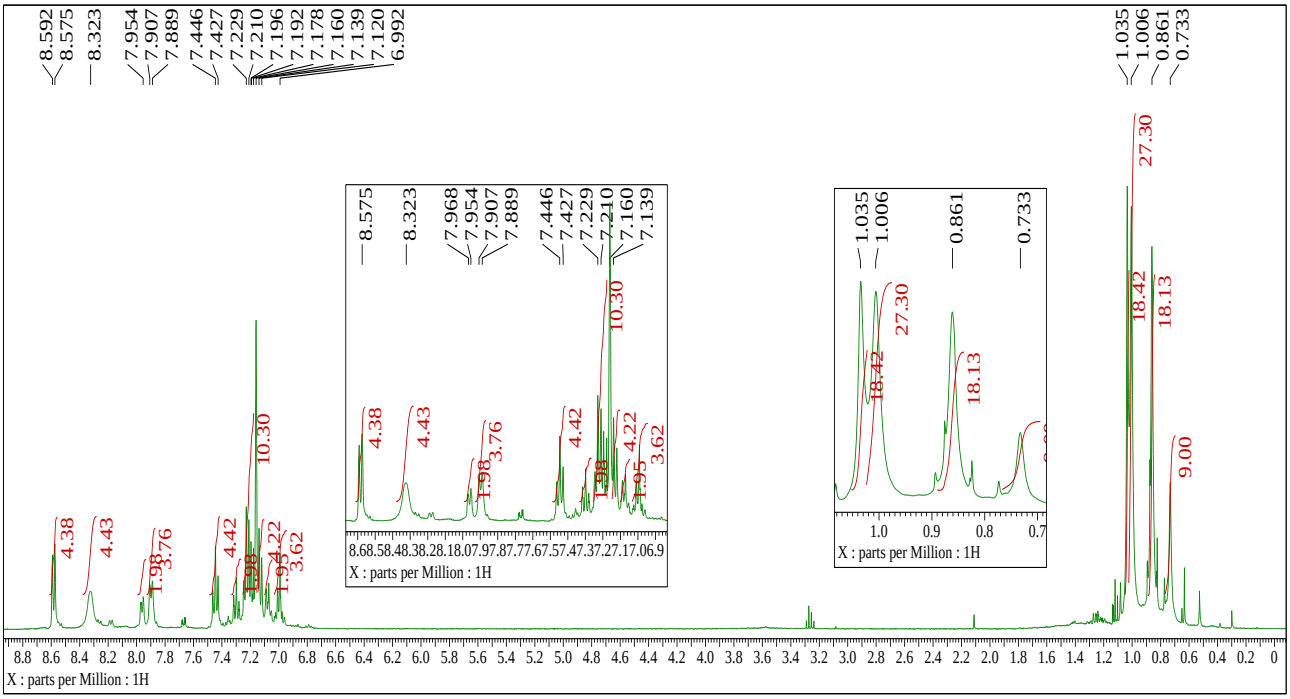


Figure S5-2. ^{13}C NMR spectrum of solution of **5** in C_6D_6 at room temperature.

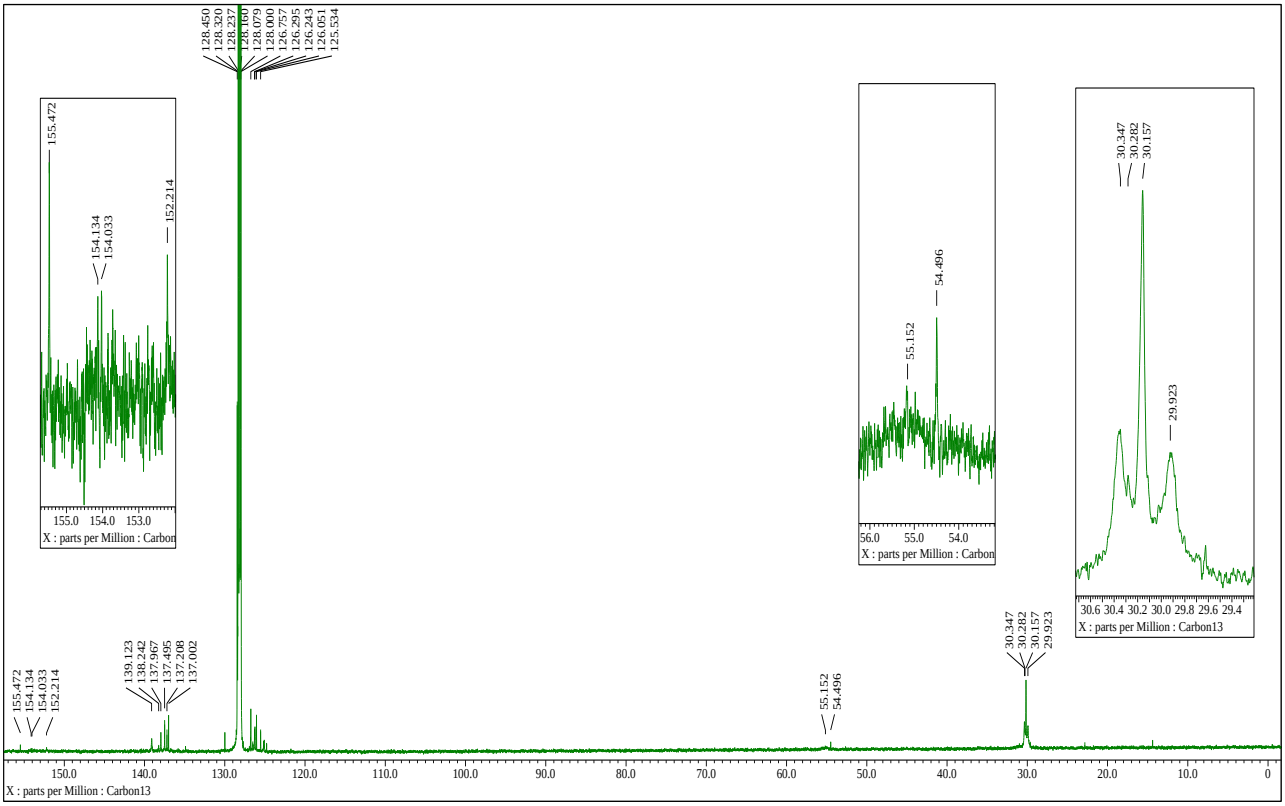


Figure S5-3. ^{13}C NMR (upper) and ^{13}C-DEPT 135 NMR spectrum of solution of **5** in C_6D_6 at room temperature. (Ph region was selectively depicted here).

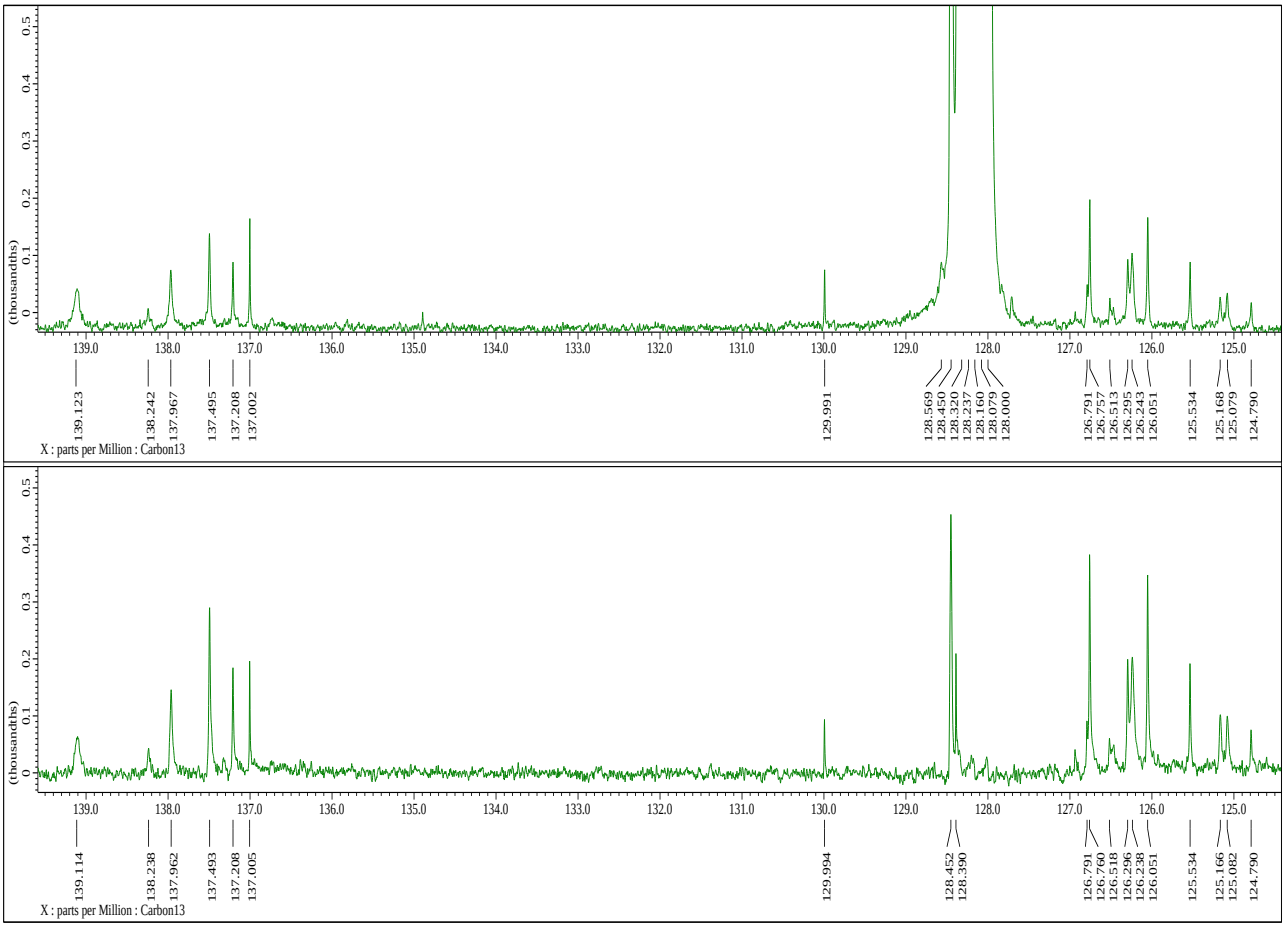


Figure S5-4. ^{1}H-^{29}Si HMBC NMR spectrum of solution of **5** in C_6D_6 at room temperature.

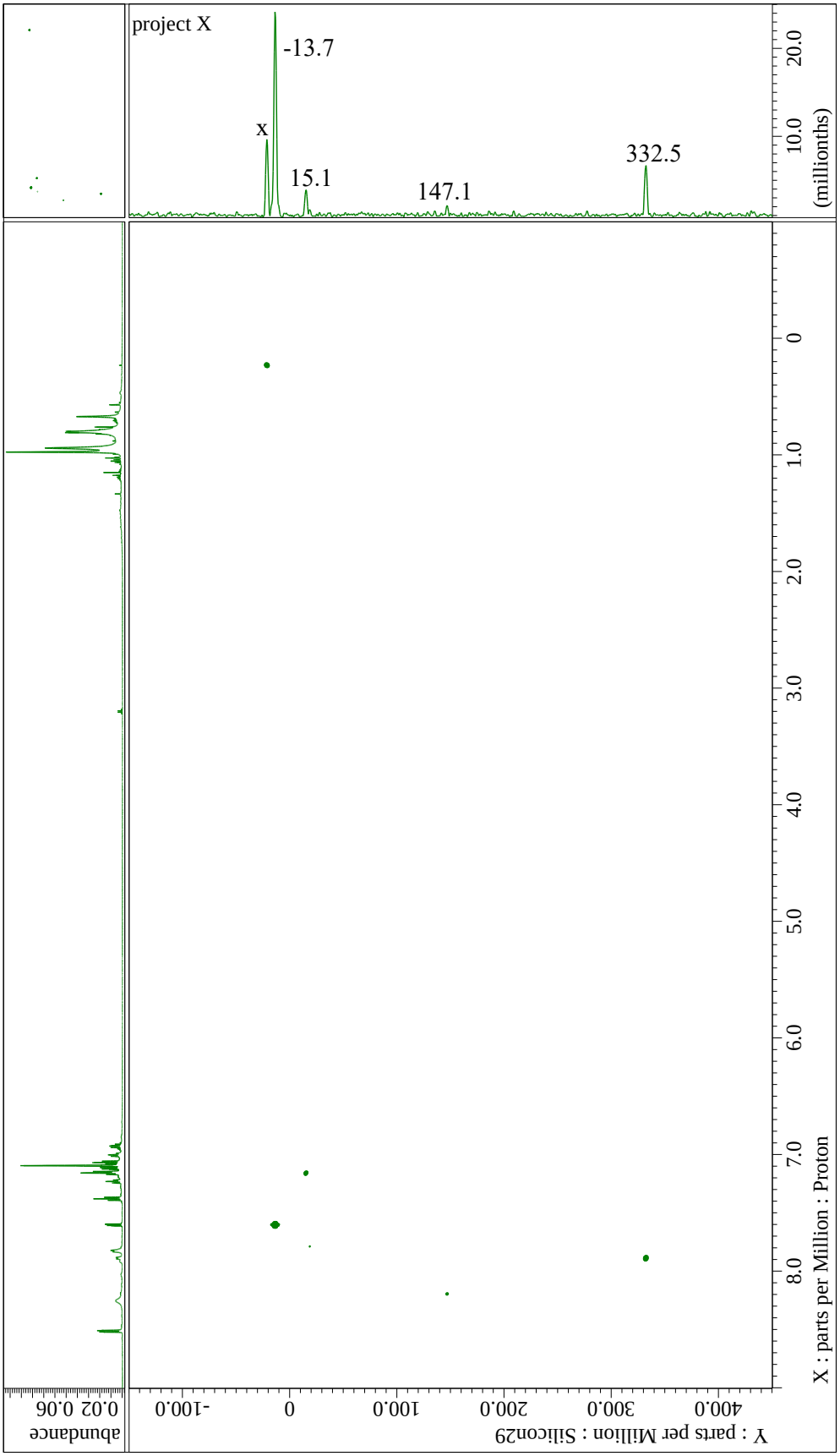


Figure S5-5. ^{1}H NMR spectrum of the crude product obtained by the reaction of **1c** with 7/3 equiv. of $[Pd(CN^{t}Bu)_2]_3$ in C_6D_6 at room temperature (o = cluster 5, x = unidentified product).

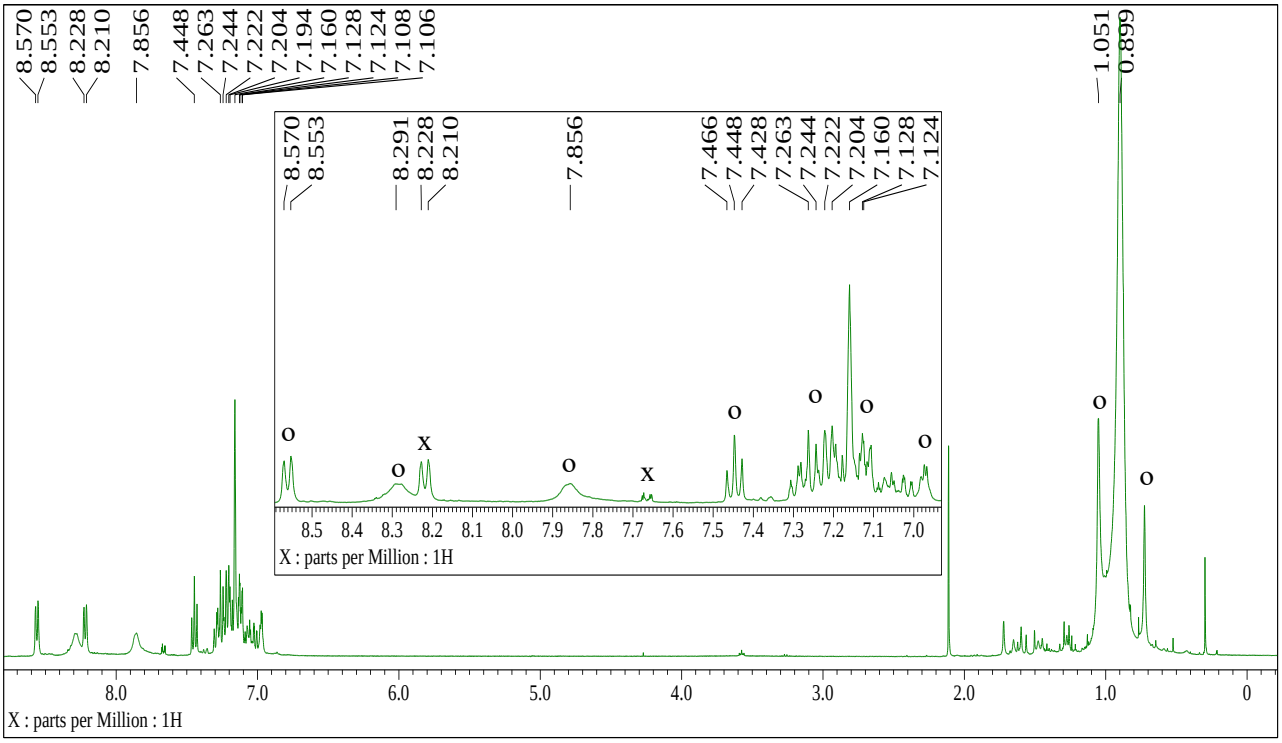
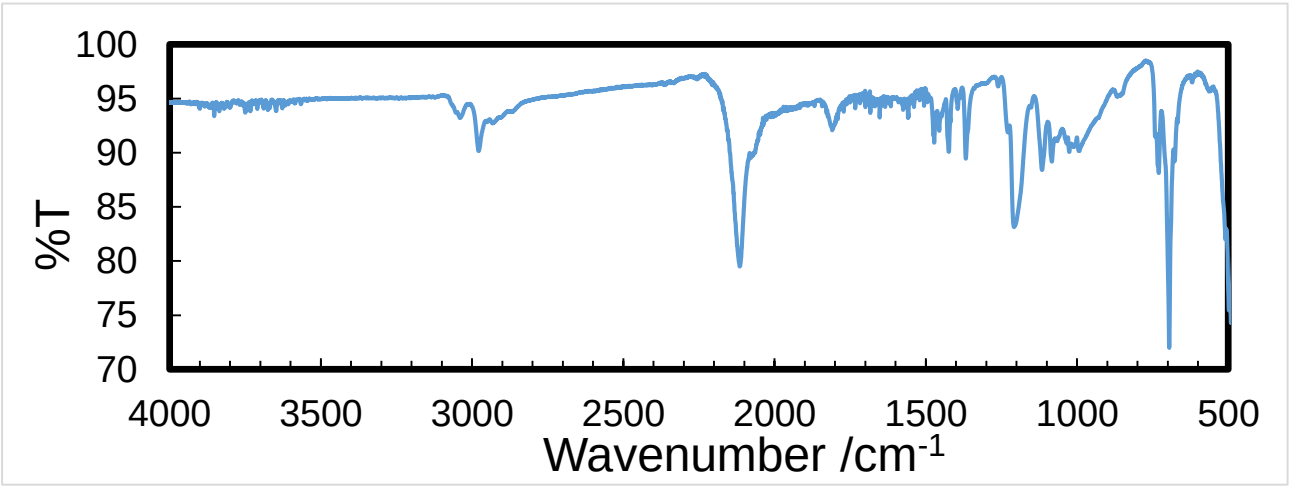


Figure S5-6. ATR-IR spectrum of **5** in the solid state.



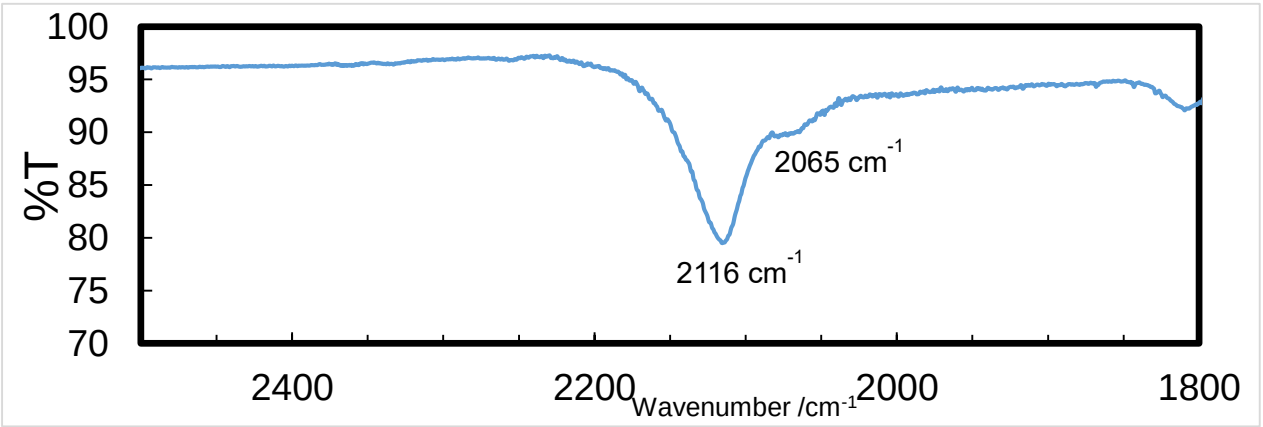


Figure S6-1. ^{1}H NMR spectrum of solution of **6** in C_6D_6 at room temperature.

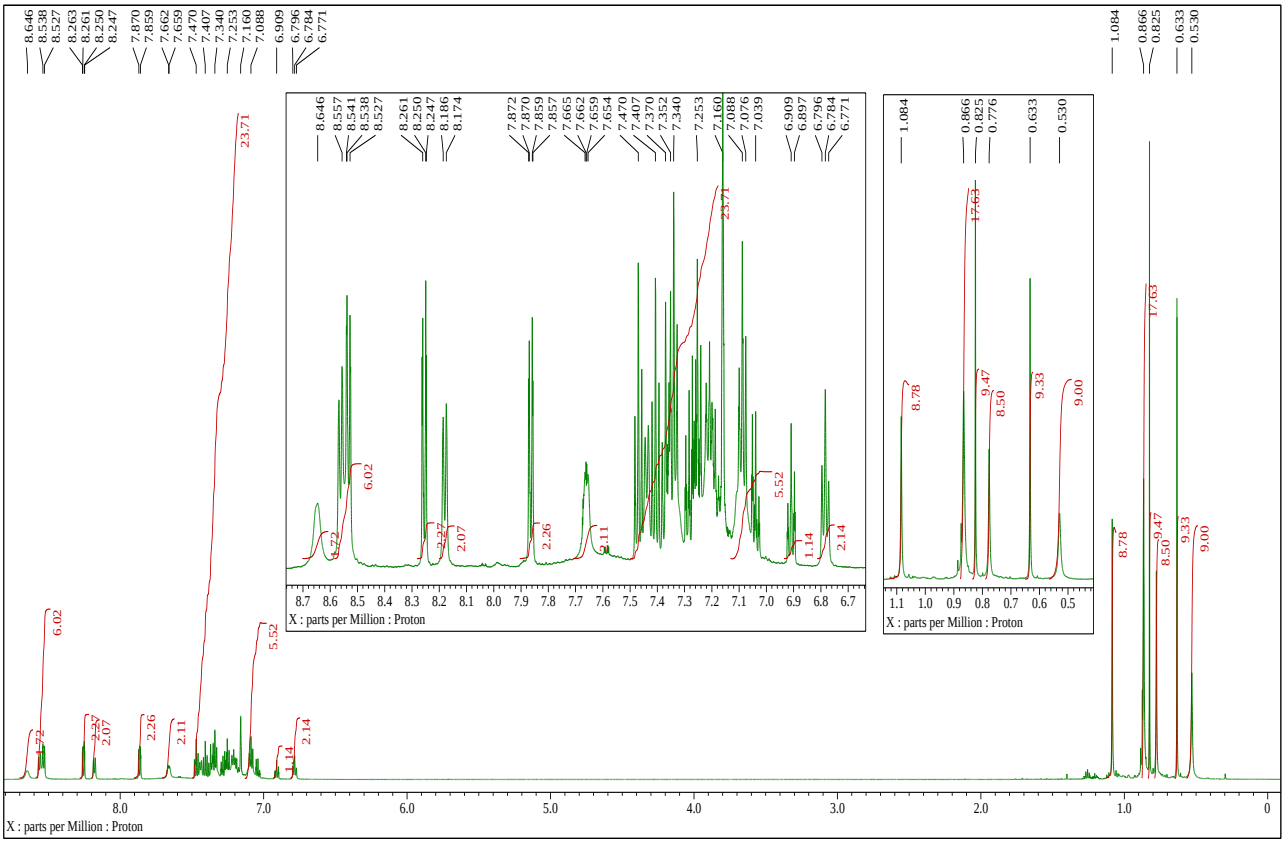


Figure S6-2. ^{13}C NMR spectrum of solution of **6** in C_6D_6 at room temperature.

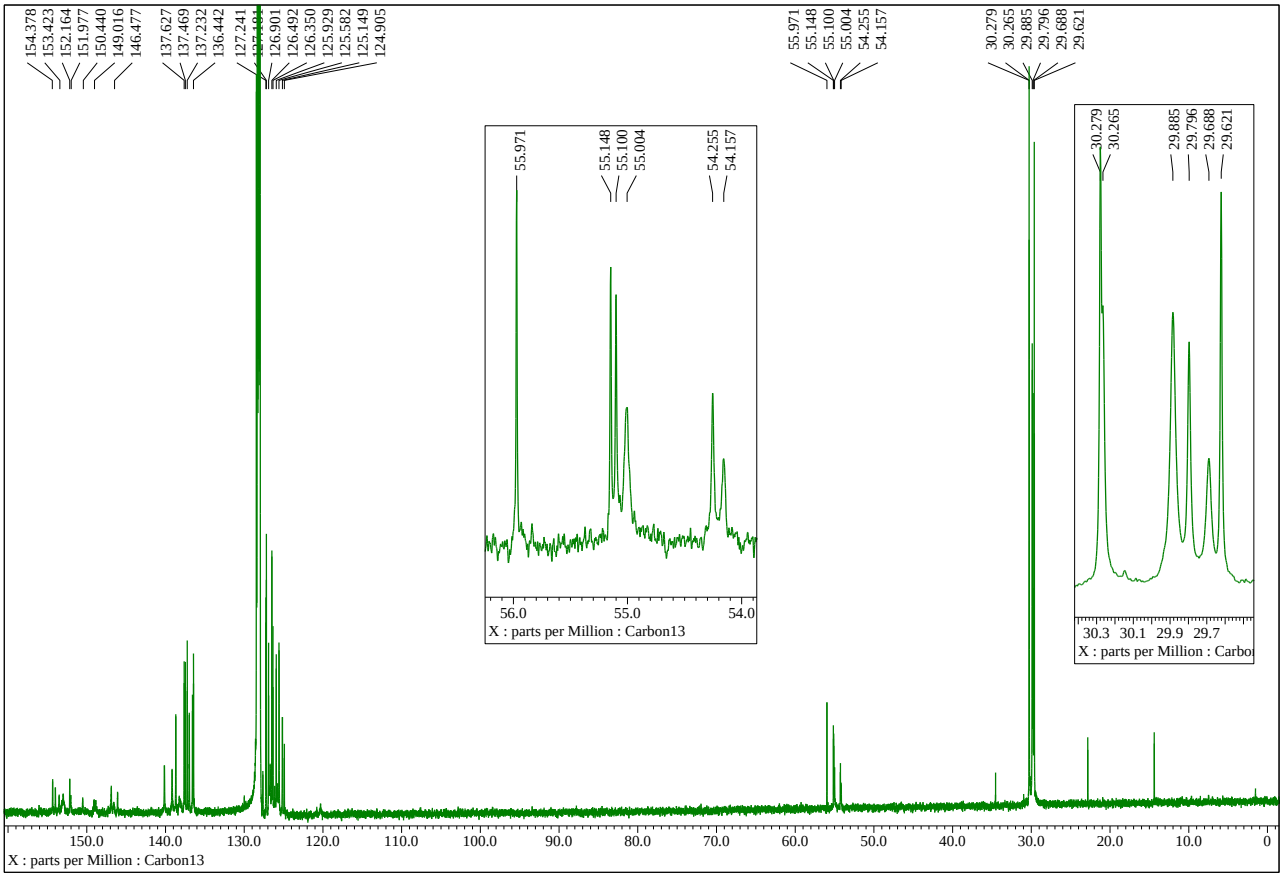


Figure S6-3. ^{13}C NMR (upper) and ^{13}C-DEPT 135 NMR spectrum of solution of **6** in C_6D_6 at room temperature. (Ph region was selectively depicted here).

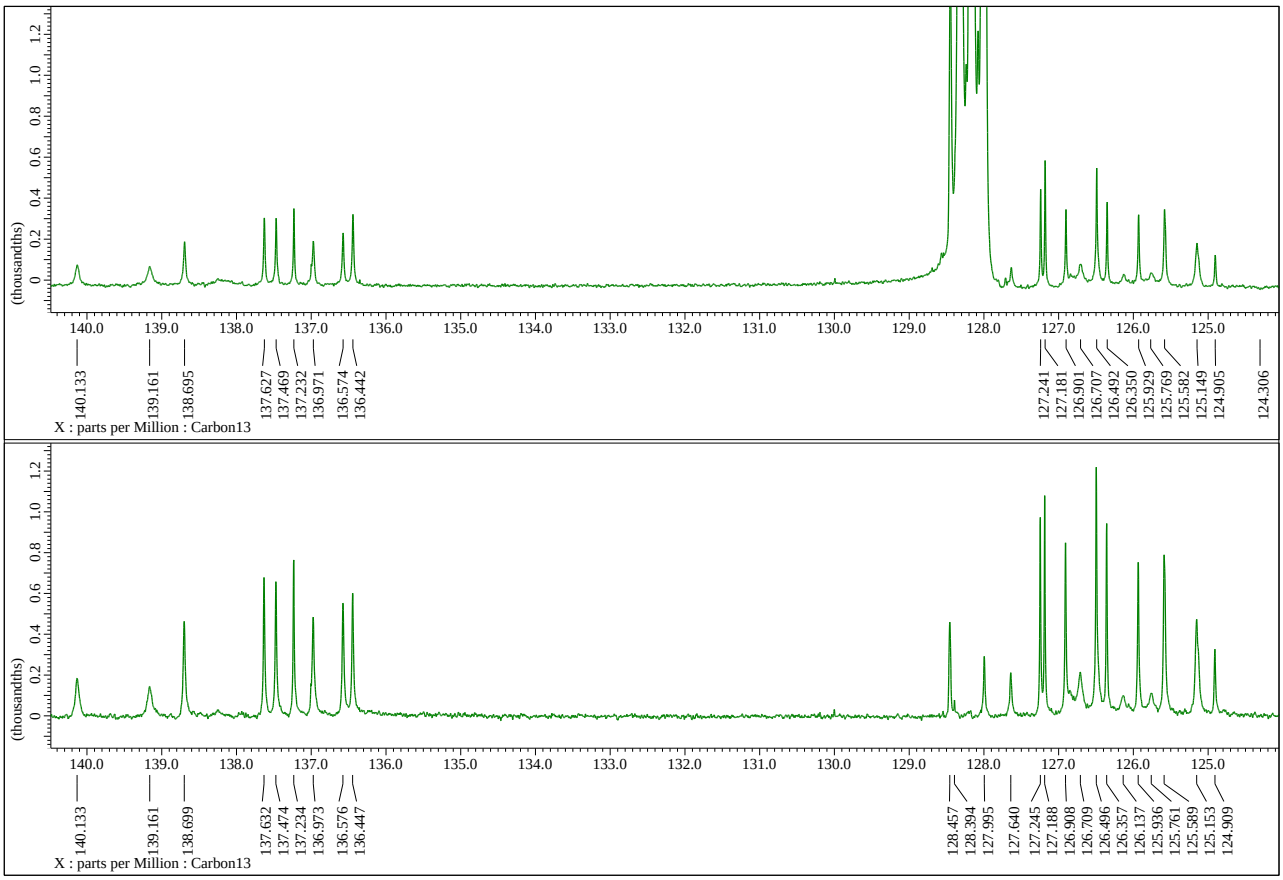


Figure S6-4. ^{29}Si NMR spectrum of solution of **6** in C_6D_6 at room temperature.

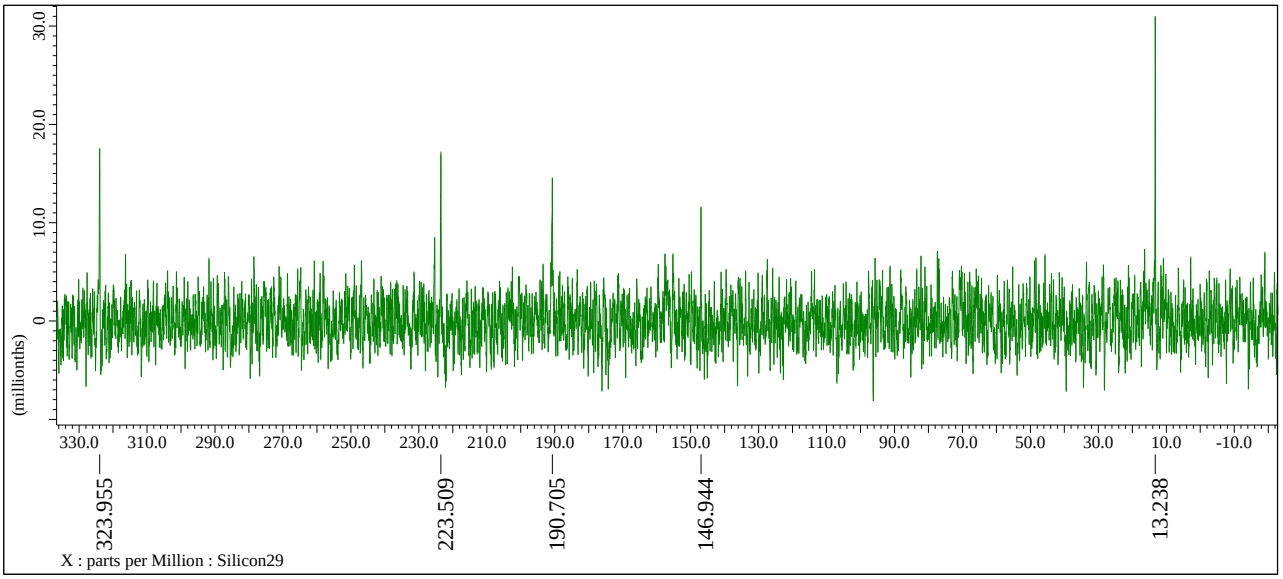


Figure S6-5. ^{1}H-^{29}Si HMBC NMR spectrum of solution of **6** in C_6D_6 at room temperature.

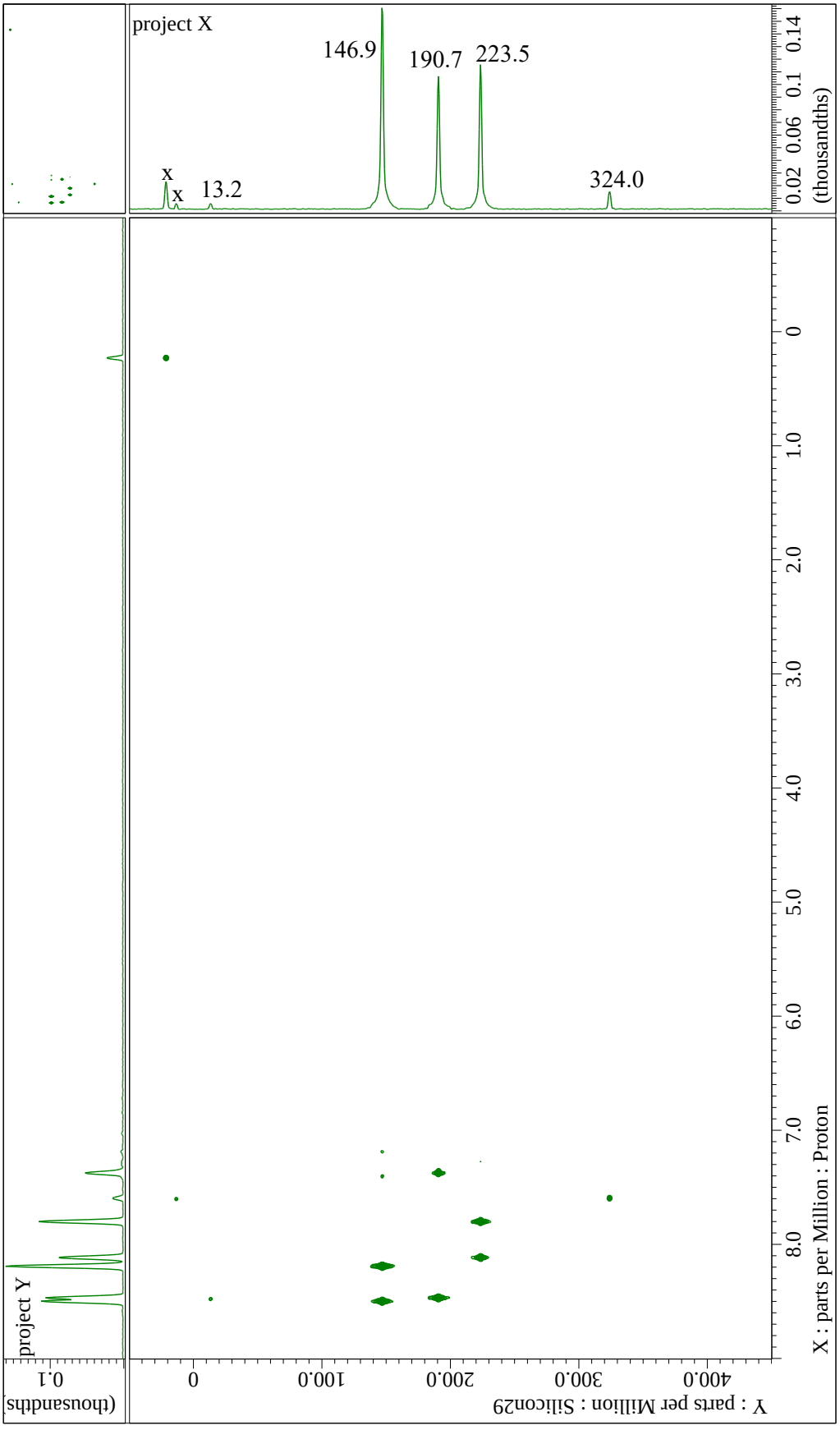
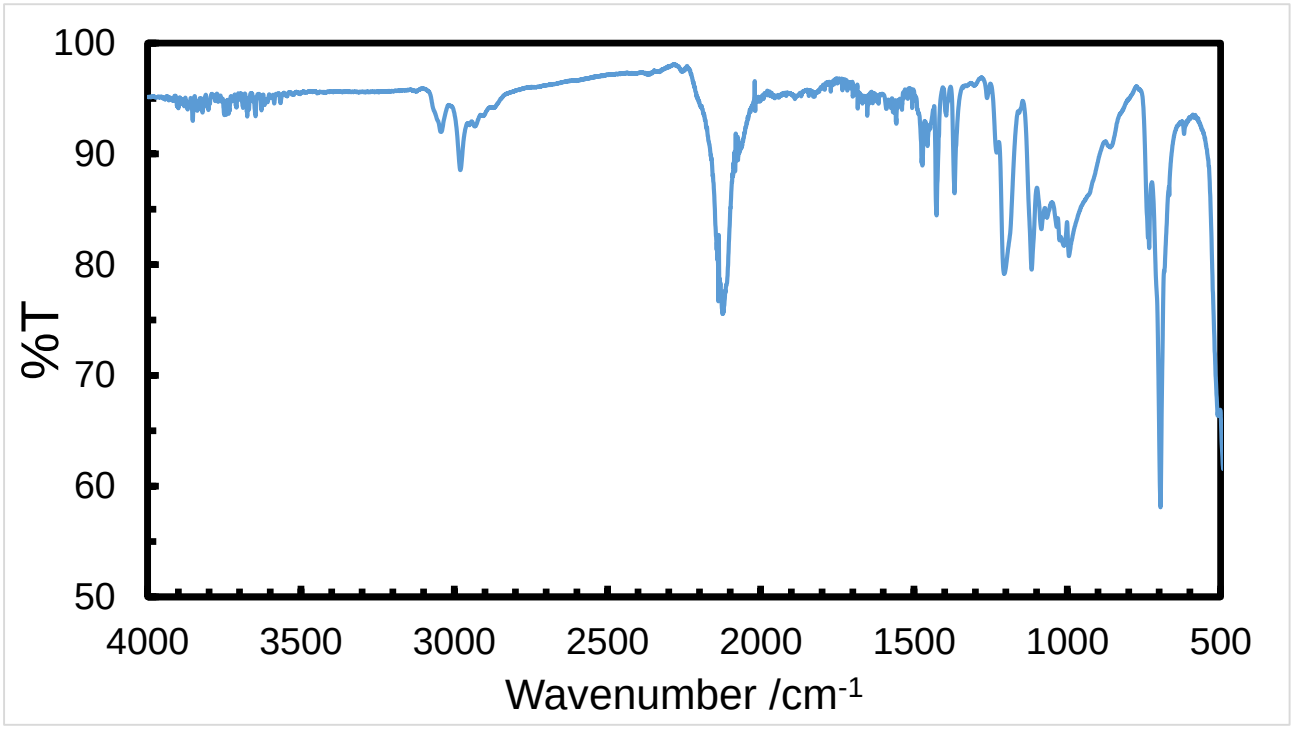
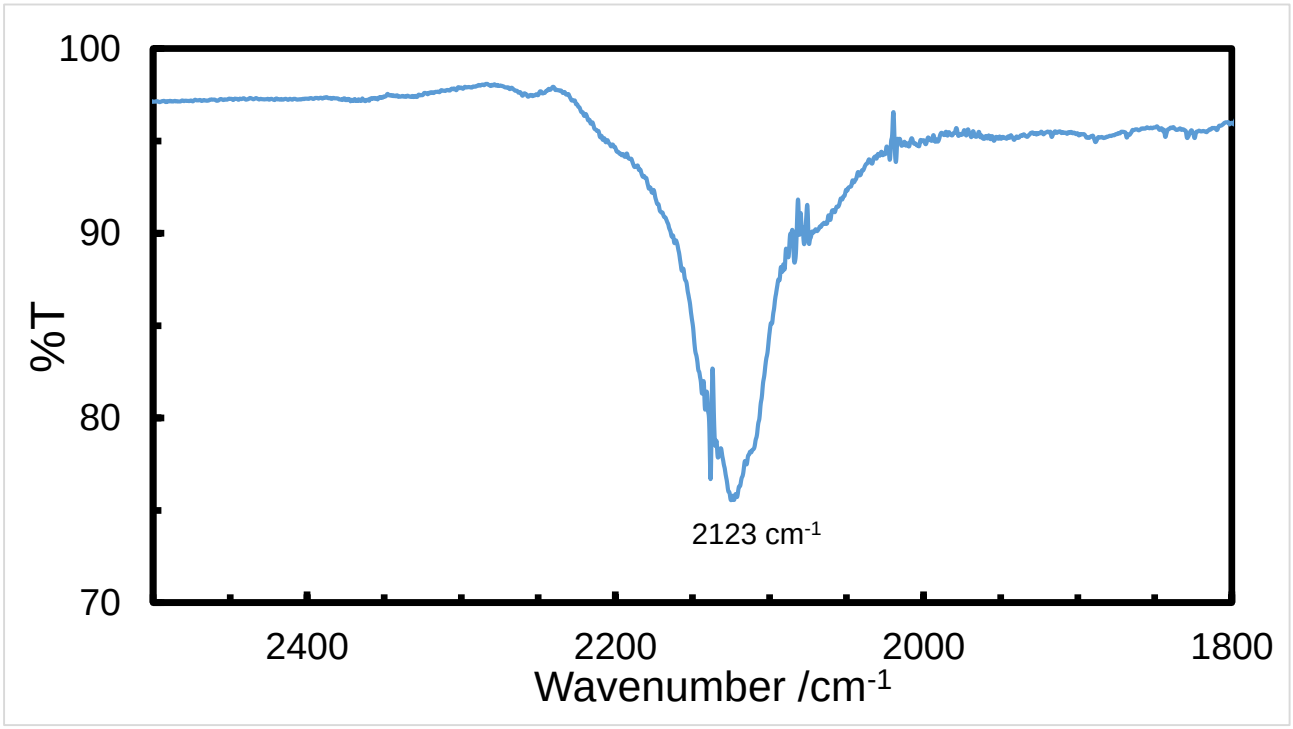


Figure S6-6. ATR-IR spectrum of **6** in the solid state.

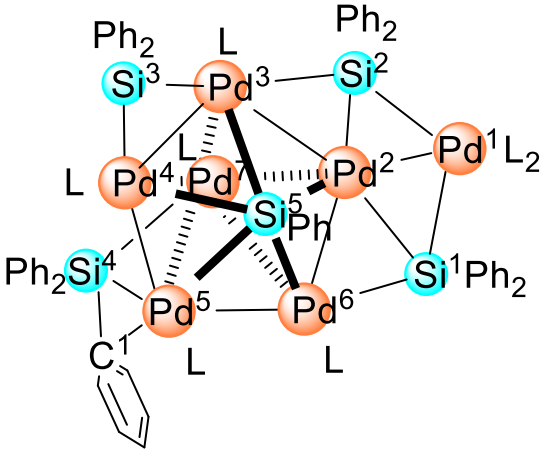




Computational Details

All of the calculations were performed using the Gaussian 16 program.[3] Geometry optimization for clusters **6**, **7** and **8** was carried out by using the DFT method with the B3PW91[4] or PBE0[5] functional, and the selected bond distances and the calculated values of bond distances and WBIs for cluster **6** (actual cluster **6** and optimized $\mathbf{6}_{opt}$), **7** (actual cluster **7** and optimized $\mathbf{7}_{opt}$) and **8** (actual cluster **8** and optimized $\mathbf{8}_{opt}$) were summarized in Table S6, 8 and 10. The optimized molecular structures for $\mathbf{6}_{opt}$, $\mathbf{7}_{opt}$ and $\mathbf{8}_{opt}$ were depicted in Figure S7, 8 and 9. Natural Bond Orbital (NBO) analyses were performed using the NBO 3.1 program implemented in Gaussian 16. The effective core potentials and the basis set by the Stuttgart–Dresden–Bonn group[6] and were used for Pd and the 6-31G** basis sets[8] were used for C, N, Si and hydrogen atoms.

Table S6. Actual bond distances, calculated bond distances and Wiberg bond index for **6** and $\mathbf{6}_{opt}$.



	Bond distance determined by XRD (Å)	Bond distances estimated by B3PW91 (Å)	Bond distances estimated by PBE0 (Å)	Wiberg bond index by B3PW91	Wiberg bond index by PBE0
Pd(1)-Pd(2)	2.7370(6)	2.80155	2.78415	0.1771	0.1781
Pd(2)-Pd(3)	2.7718(5)	2.81675	2.79567	0.1480	0.1492
Pd(3)-Pd(4)	2.8053(7)	2.85891	2.84786	0.1504	0.1485
Pd(4)-Pd(5)	2.7476(6)	2.84589	2.84689	0.1356	0.1302
Pd(5)-Pd(6)	2.8134(6)	2.90250	2.86761	0.1231	0.1247
Pd(2)-Pd(6)	2.6890(6)	2.74618	2.74237	0.1479	0.1435
Pd(2)-Pd(7)	2.8779(6)	2.91903	2.90078	0.1256	0.1250
Pd(3)-Pd(7)	3.4418(5)	3.61804	3.51321	0.0528	0.0597
Pd(4)-Pd(7)	2.7807(4)	2.85053	2.80342	0.1318	0.1371
Pd(5)-Pd(7)	2.6982(6)	2.73654	2.74889	0.1977	0.1893
Pd(6)-Pd(7)	2.8524(5)	2.94807	2.97372	0.1026	0.0992
Pd(1)-Si(1)	2.5326(9)	2.59441	2.59596	0.4293	0.4223
Pd(1)-Si(2)	2.5337(9)	2.59140	2.57776	0.4202	0.4243
Pd(2)-Si(1)	2.3058(9)	2.34195	2.33042	0.5386	0.5407
Pd(2)-Si(2)	2.2517(9)	2.29628	2.28816	0.5679	0.5656
Pd(2)-Si(5)	2.3111(9)	2.34308	2.33689	0.4904	0.4839
Pd(3)-Si(5)	2.5138(9)	2.55973	2.54122	0.3402	0.3389
Pd(4)-Si(5)	2.4513(9)	2.51773	2.52264	0.3432	0.3355
Pd(5)-Si(5)	2.4254(9)	2.45859	2.45243	0.4225	0.4168
Pd(6)-Si(5)	2.5113(9)	2.57443	2.55237	0.2661	0.2629
Pd(7)-Si(5)	2.4653(7)	2.53189	2.50071	0.3599	0.3695
Pd(5)-C(1)	2.373(3)	2.45301	2.41773	0.1088	0.1129

Figure S7. Optimized molecular structure of **6** (**6**$_{opt}$) with B3PW91 (upper) and with PBE0 (lower). The cadetblue balls are palladium atoms, the blue balls are silicon atoms, the pale blue balls are nitrogen atoms, the grey ones are carbon atoms.

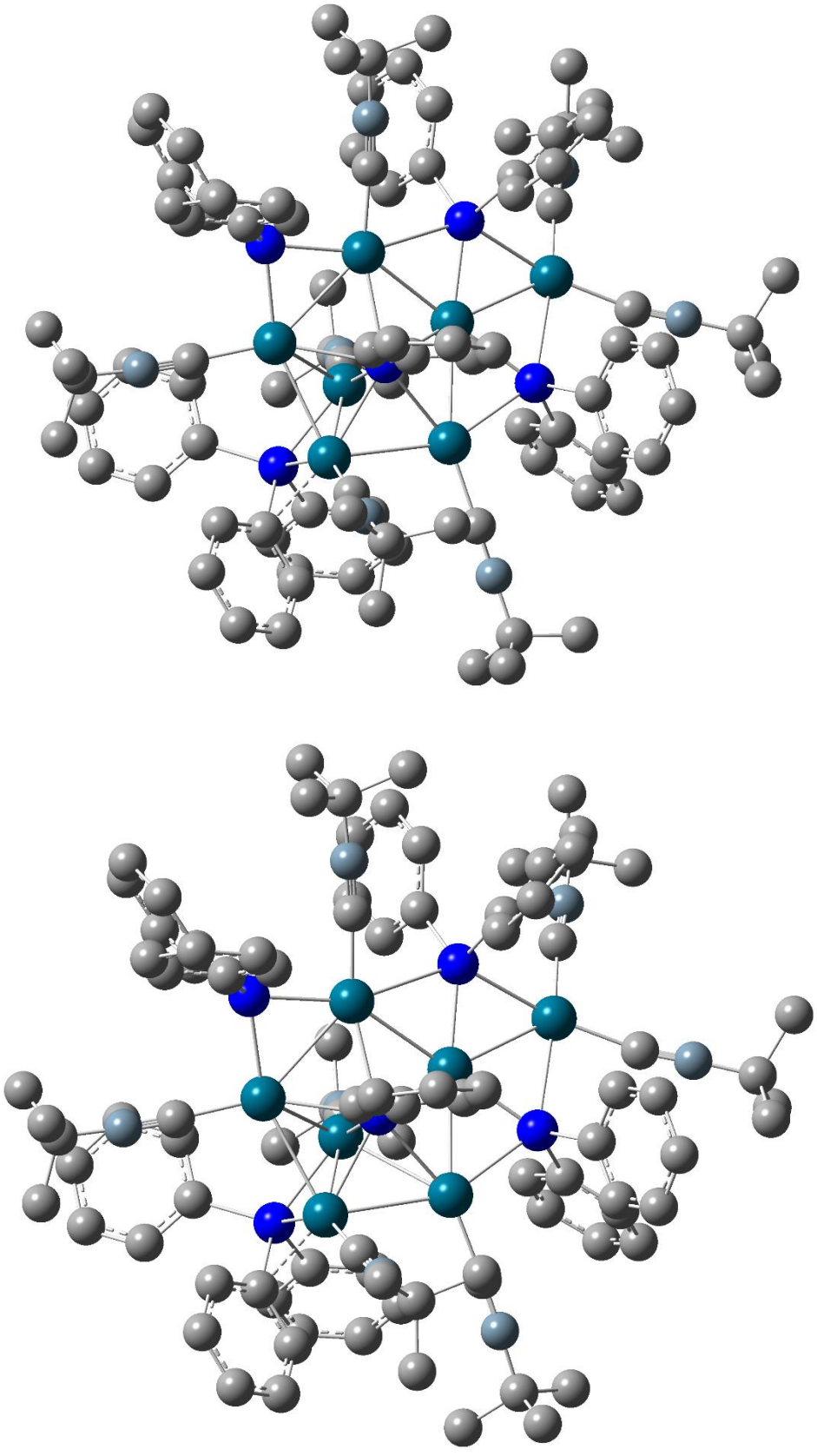


Table S7. The DFT-optimized Geometry for complex $\mathbf{6}_{opt}$ (in XYZ format)

with B3PW91 functional

Pd	-4.093599	0.587399	0.249499	C	-3.593200	-2.835900	0.663500
Pd	-1.360500	0.224800	-0.248099	C	-4.452700	-3.878599	0.277299
Pd	-0.522800	-2.359600	-0.648799	C	-4.998300	-4.763199	1.210599
Pd	2.355000	-1.982700	-0.630499	C	-4.702799	-4.622300	2.566500
Pd	2.860400	0.777100	-0.153600	C	-3.852100	-3.593000	2.974300
Pd	0.495100	2.307300	-0.640299	C	-3.303400	-2.720300	2.035100
Pd	0.920500	-0.704800	1.318300	C	3.703699	-3.359600	0.886900
Si	-2.224300	2.347400	-0.102100	C	4.923199	-2.935599	0.313900
Si	-2.859099	-1.549100	-0.552200	C	5.735000	-3.808100	-0.411499
Si	2.640200	-2.179900	1.998600	C	5.344600	-5.133799	-0.598500
Si	2.719800	3.039800	-0.573399	C	4.132299	-5.575000	-0.066500
Si	0.760700	-0.186100	-1.154700	C	3.323900	-4.699499	0.657000
N	-5.546199	2.641799	2.144999	C	3.949000	-1.328000	3.109900
N	-6.740200	-1.033100	-0.340999	C	5.107400	-2.000600	3.539499
N	-0.753799	-5.482800	-0.969699	C	6.017800	-1.406299	4.415800
N	2.848600	-3.155200	-3.529100	C	5.797400	-0.108700	4.878500
N	5.956799	0.919400	0.338799	C	4.664300	0.586000	4.454100
N	-0.104499	5.283799	-1.372100	C	3.757100	-0.020199	3.583799
N	-0.203400	-0.366600	4.229900	C	1.727200	-3.439899	3.128999
C	-3.094900	3.170099	-1.599300	C	0.420800	-3.865599	2.833600
C	-2.559699	2.974300	-2.886400	C	-0.236399	-4.810100	3.625000
C	-3.188499	3.475400	-4.026599	C	0.397399	-5.348599	4.745200
C	-4.380699	4.192200	-3.912700	C	1.690700	-4.935099	5.064400
C	-4.939399	4.390599	-2.650399	C	2.342699	-3.994700	4.264500
C	-4.307000	3.880000	-1.515600	C	3.620100	3.762600	-2.085100
C	-2.159800	3.601999	1.340600	C	2.988200	3.786100	-3.340499
C	-2.618900	4.927499	1.262900	C	3.644600	4.261500	-4.476099
C	-2.502399	5.810600	2.339200	C	4.960100	4.715200	-4.385800
C	-1.913400	5.388799	3.530699	C	5.613100	4.692800	-3.153100
C	-1.444800	4.077299	3.630600	C	4.947999	4.225000	-2.020300
C	-1.567900	3.201700	2.552400	C	3.126799	4.198499	0.880299
C	-3.536000	-1.933500	-2.308300	C	3.608300	5.510400	0.726100
C	-4.121799	-0.907600	-3.072400	C	3.827600	6.338999	1.827800
C	-4.588600	-1.132100	-4.369200	C	3.567499	5.872599	3.115600
C	-4.485699	-2.400200	-4.941100	C	3.080900	4.576600	3.293199
C	-3.898800	-3.433000	-4.209299	C	2.861999	3.755599	2.189099
C	-3.423899	-3.195899	-2.919000	C	0.781200	0.029999	-3.057900

C	-0.366099	-0.240599	-3.823100	C	-1.783900	-1.374799	5.736499
C	-0.370900	-0.069700	-5.209100	H	-1.634700	2.411699	-2.993999
C	0.776599	0.379200	-5.864600	H	-2.747000	3.301100	-5.005199
C	1.929200	0.648600	-5.122799	H	-4.872900	4.585600	-4.798799
C	1.928500	0.472300	-3.738500	H	-5.874100	4.938299	-2.548999
C	-4.931100	2.009600	1.367199	H	-4.778299	4.025200	-0.547000
C	-6.260700	3.397400	3.134100	H	-3.072999	5.282000	0.341700
C	-6.450499	4.824699	2.602500	H	-2.867000	6.831699	2.244399
C	-7.617700	2.717900	3.367799	H	-1.812600	6.074800	4.367999
C	-5.426000	3.406699	4.422500	H	-0.971899	3.740800	4.549800
C	-5.696599	-0.548100	-0.107200	H	-1.183900	2.187500	2.640500
C	-7.989799	-1.657100	-0.670200	H	-4.206899	0.088600	-2.642700
C	-8.975200	-0.556500	-1.089300	H	-5.029500	-0.312600	-4.932400
C	-8.492799	-2.396000	0.578000	H	-4.851100	-2.580399	-5.949299
C	-7.748699	-2.638900	-1.825000	H	-3.803099	-4.423700	-4.649000
C	-0.670200	-4.313100	-0.852099	H	-2.940200	-4.005300	-2.378900
C	-0.886499	-6.908499	-1.049200	H	-4.705700	-4.000799	-0.772700
C	-2.379199	-7.248000	-1.170300	H	-5.659599	-5.561499	0.878200
C	-0.117800	-7.395900	-2.285700	H	-5.130800	-5.304499	3.297000
C	-0.296000	-7.519400	0.229699	H	-3.615099	-3.472200	4.028599
C	2.684600	-2.702100	-2.459800	H	-2.635900	-1.927500	2.366499
C	2.992899	-3.664100	-4.863499	H	5.246199	-1.909100	0.462800
C	3.981600	-2.759399	-5.612199	H	6.673400	-3.453300	-0.831399
C	1.613100	-3.635900	-5.535599	H	5.980599	-5.819100	-1.153600
C	3.529500	-5.099299	-4.772799	H	3.821800	-6.607800	-0.208099
C	4.792299	0.825700	0.210200	H	2.389900	-5.061199	1.078600
C	7.368499	1.104500	0.529199	H	5.306800	-3.008300	3.181600
C	7.560100	2.212999	1.574599	H	6.897900	-1.958199	4.738700
C	7.981500	1.506800	-0.819599	H	6.503199	0.357000	5.562200
C	7.971299	-0.215799	1.027400	H	4.490600	1.604100	4.794100
C	0.053500	4.165300	-1.049400	H	2.881799	0.530500	3.248400
C	-0.250399	6.662099	-1.749400	H	-0.094799	-3.441600	1.971900
C	0.771600	6.965400	-2.854200	H	-1.249499	-5.110200	3.369100
C	0.023300	7.518000	-0.504399	H	-0.112600	-6.081400	5.366300
C	-1.679100	6.881399	-2.263699	H	2.194200	-5.344100	5.937700
C	0.176200	-0.435500	3.118299	H	3.348000	-3.684299	4.538499
C	-0.573000	-0.439399	5.616399	H	1.969700	3.416600	-3.429199
C	-0.928200	0.972800	6.098700	H	3.128999	4.272300	-5.433200
C	0.623199	-0.998500	6.399900	H	5.474200	5.083999	-5.269899

H	6.638700	5.046399	-3.074100
H	5.469799	4.225299	-1.065700
H	3.817199	5.893400	-0.269699
H	4.202599	7.349199	1.680100
H	3.738500	6.515900	3.975100
H	2.866100	4.209299	4.293800
H	2.471700	2.750500	2.332899
H	-1.266999	-0.592699	-3.328200
H	-1.275399	-0.286900	-5.772199
H	0.773800	0.518600	-6.943300
H	2.827599	1.007900	-5.620300
H	2.832200	0.685000	-3.171199
H	-6.990900	5.422500	3.342899
H	-5.480800	5.291299	2.412400
H	-7.027900	4.818600	1.673400
H	-8.182799	3.273100	4.122799
H	-8.202800	2.693300	2.444099
H	-7.480400	1.691700	3.720300
H	-5.949600	3.981800	5.192700
H	-5.276800	2.387600	4.790700
H	-4.447999	3.861100	4.244500
H	-9.940600	-1.004800	-1.343399
H	-9.126899	0.158800	-0.276000
H	-8.601200	-0.015300	-1.962700
H	-9.436400	-2.900999	0.349599
H	-7.761500	-3.140799	0.902200
H	-8.662900	-1.695799	1.401000
H	-8.695700	-3.107800	-2.110000
H	-7.332400	-2.123399	-2.694000
H	-7.046799	-3.419300	-1.522699
H	-2.507500	-8.334299	-1.208399
H	-2.934000	-6.855800	-0.314099
H	-2.801200	-6.816599	-2.082399
H	-0.205600	-8.483500	-2.369799
H	-0.521399	-6.942500	-3.195500
H	0.941400	-7.136000	-2.207300
H	-0.394500	-8.609000	0.196499
H	0.763399	-7.267400	0.324899
H	-0.817800	-7.145800	1.114100
H	3.605399	-1.734100	-5.648100
H	4.957400	-2.759699	-5.117900
H	4.108300	-3.125300	-6.635800
H	1.222200	-2.616300	-5.574399
H	1.697600	-4.023199	-6.556000
H	0.902500	-4.256499	-4.982900
H	4.496000	-5.120599	-4.261899
H	2.832800	-5.738000	-4.223099
H	3.655700	-5.507299	-5.780300
H	8.629300	2.381599	1.735800
H	7.104700	3.148200	1.237799
H	7.101200	1.925599	2.523900
H	9.057600	1.664900	-0.699400
H	7.825800	0.721700	-1.564799
H	7.530000	2.429300	-1.193600
H	9.044899	-0.085199	1.195000
H	7.502900	-0.525999	1.965000
H	7.831999	-1.008900	0.287600
H	0.691800	8.017699	-3.143900
H	1.789900	6.771700	-2.508300
H	0.584299	6.346699	-3.735899
H	-0.677300	7.266999	0.295899
H	1.038799	7.351500	-0.135300
H	-0.091499	8.576400	-0.758400
H	-2.410699	6.669100	-1.481300
H	-1.794999	7.923100	-2.579099
H	-1.893299	6.228400	-3.113200
H	-1.224900	0.936299	7.151299
H	-0.066599	1.640100	6.005200
H	-1.755500	1.386799	5.515999
H	0.365600	-1.061100	7.462100
H	0.887300	-1.996200	6.040400
H	1.496400	-0.350000	6.288700
H	-2.085499	-1.449700	6.786000
H	-2.628100	-0.991800	5.156200
H	-1.529399	-2.373300	5.371800

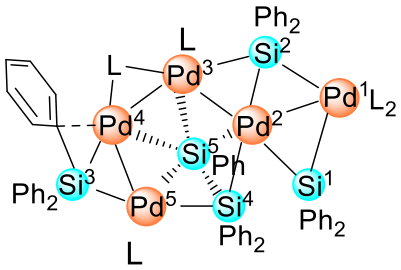
with PBE0 functional

Pd	-4.012200	0.881199	0.342199	C	-4.723000	-3.489300	0.516099
Pd	-1.342900	0.315900	-0.211699	C	-5.267900	-4.327899	1.488700
Pd	-0.693199	-2.307800	-0.674899	C	-4.821499	-4.253900	2.806099
Pd	2.169500	-2.155200	-0.744199	C	-3.822499	-3.337900	3.135599
Pd	2.916700	0.547900	-0.254899	C	-3.276700	-2.510700	2.156500
Pd	0.650300	2.236500	-0.604699	C	3.529500	-3.547099	0.690600
Pd	0.930500	-0.731400	1.254300	C	4.698700	-3.168600	-0.003600
Si	-2.025400	2.489000	0.006500	C	5.396700	-4.068699	-0.807599
Si	-2.952300	-1.352900	-0.447899	C	4.938099	-5.375799	-0.952599
Si	2.594700	-2.302699	1.841299	C	3.772899	-5.771899	-0.297799
Si	2.912799	2.810199	-0.659500	C	3.077099	-4.869199	0.502700
Si	0.707700	-0.236499	-1.186799	C	3.994299	-1.524300	2.885200
N	-5.251599	3.103900	2.186700	C	5.144000	-2.248799	3.239700
N	-6.725400	-0.594899	-0.281000	C	6.130100	-1.698500	4.058700
N	-1.215300	-5.405999	-0.671300	C	5.995599	-0.395299	4.534600
N	1.981100	-3.484399	-3.598699	C	4.870600	0.349300	4.184000
N	6.026899	0.529600	0.100900	C	3.886600	-0.213699	3.373099
N	0.294300	5.267900	-1.223900	C	1.660800	-3.504200	3.011700
N	-0.047299	-0.403799	4.208800	C	0.321799	-3.851300	2.772699
C	-2.822399	3.436300	-1.454100	C	-0.354199	-4.755599	3.592399
C	-2.323500	3.211900	-2.749100	C	0.294400	-5.329399	4.685100
C	-2.901099	3.805099	-3.870099	C	1.620500	-4.992399	4.947700
C	-4.001799	4.648799	-3.726600	C	2.291300	-4.093300	4.118700
C	-4.522299	4.880400	-2.455200	C	3.764999	3.474000	-2.218100
C	-3.943600	4.275099	-1.340299	C	3.062199	3.520899	-3.432499
C	-1.816800	3.687100	1.479400	C	3.676599	3.945300	-4.608799
C	-2.118200	5.056800	1.437200	C	5.017700	4.321800	-4.600099
C	-1.888899	5.892800	2.530900	C	5.739900	4.272699	-3.409100
C	-1.342599	5.376500	3.703699	C	5.117499	3.856099	-2.234699
C	-1.032299	4.018300	3.768599	C	3.466500	3.926600	0.773500
C	-1.267500	3.190200	2.673600	C	4.045700	5.194199	0.604699
C	-3.716399	-1.719900	-2.167200	C	4.358199	6.000099	1.698999
C	-4.173599	-0.656599	-2.964400	C	4.095200	5.554200	2.991799
C	-4.678600	-0.866600	-4.247400	C	3.511600	4.302500	3.183300
C	-4.749500	-2.157200	-4.768400	C	3.200199	3.504200	2.086900
C	-4.296599	-3.228800	-4.000599	C	0.690300	0.013100	-3.081200
C	-3.778400	-3.007500	-2.725899	C	-0.517900	-0.057900	-3.792500
C	-3.715499	-2.561799	0.822699	C	-0.556999	0.133799	-5.173599

C	0.617499	0.399700	-5.876600	H	-2.490200	3.604299	-4.856800
C	1.829200	0.469799	-5.187799	H	-4.454199	5.115700	-4.597799
C	1.861500	0.276900	-3.807700	H	-5.387100	5.528500	-2.331600
C	-4.718500	2.387700	1.424599	H	-4.386700	4.450700	-0.363100
C	-5.848400	3.965999	3.161700	H	-2.534100	5.483699	0.528200
C	-5.879900	5.385600	2.588600	H	-2.132600	6.951300	2.464599
C	-7.266899	3.460699	3.441199	H	-1.155100	6.025300	4.555200
C	-4.990300	3.914399	4.429299	H	-0.597099	3.605700	4.675300
C	-5.669599	-0.159699	-0.015600	H	-1.005200	2.135500	2.733599
C	-7.977599	-1.169100	-0.671300	H	-4.127400	0.357299	-2.569399
C	-8.943299	-0.025200	-0.995500	H	-5.016700	-0.018900	-4.839200
C	-8.498499	-2.006200	0.500600	H	-5.147400	-2.326499	-5.765800
C	-7.740800	-2.043200	-1.906399	H	-4.339100	-4.239600	-4.400800
C	-1.037400	-4.243900	-0.710100	H	-3.399400	-3.852699	-2.156100
C	-1.427599	-6.811600	-0.507800	H	-5.092100	-3.557699	-0.504199
C	-2.781800	-7.014099	0.178500	H	-6.044500	-5.040400	1.216900
C	-1.420900	-7.463399	-1.893700	H	-5.248000	-4.900599	3.568699
C	-0.292200	-7.368100	0.357299	H	-3.465999	-3.270599	4.160499
C	2.105300	-2.977799	-2.550700	H	-2.489399	-1.808200	2.424799
C	1.708499	-4.044799	-4.888200	H	5.074800	-2.155300	0.109999
C	2.647500	-3.383700	-5.901000	H	6.297900	-3.747200	-1.324199
C	0.244800	-3.749999	-5.229500	H	5.484000	-6.081800	-1.573300
C	1.961800	-5.552799	-4.812200	H	3.408899	-6.790900	-0.407500
C	4.857700	0.490500	0.014200	H	2.175000	-5.194900	1.013899
C	7.447100	0.633699	0.256899	H	5.275600	-3.262100	2.865599
C	7.720699	1.679900	1.342100	H	7.003800	-2.288499	4.326100
C	8.041299	1.065500	-1.087000	H	6.762599	0.036699	5.172699
C	7.989100	-0.735399	0.676700	H	4.763600	1.373799	4.532500
C	0.359900	4.132200	-0.940599	H	3.015699	0.374100	3.092800
C	0.264200	6.657899	-1.567400	H	-0.203300	-3.395000	1.933199
C	1.315900	6.899100	-2.654799	H	-1.394500	-4.993500	3.382400
C	0.597199	7.455999	-0.303000	H	-0.230500	-6.030299	5.329600
C	-1.135400	7.000700	-2.084399	H	2.135299	-5.429799	5.800099
C	0.284700	-0.467499	3.084000	H	3.324499	-3.841400	4.346600
C	-0.358200	-0.499300	5.604599	H	2.021100	3.207500	-3.456099
C	-0.687699	0.902100	6.123500	H	3.108000	3.973599	-5.534900
C	0.866400	-1.074499	6.323099	H	5.499600	4.650500	-5.517099
C	-1.562699	-1.432500	5.757200	H	6.787299	4.564200	-3.395500
H	-1.465699	2.554299	-2.877600	H	5.693700	3.831400	-1.311800

H	4.255800	5.560900	-0.397199	H	2.479100	-2.303899	-5.925900
H	4.807900	6.977499	1.541600	H	3.692799	-3.572600	-5.639800
H	4.338400	6.181000	3.845800	H	2.455899	-3.794800	-6.896699
H	3.291700	3.952800	4.189100	H	0.065799	-2.672400	-5.262099
H	2.730399	2.534899	2.240199	H	0.007000	-4.180400	-6.207499
H	-1.439499	-0.272200	-3.257200	H	-0.422199	-4.184399	-4.479700
H	-1.508599	0.070999	-5.696299	H	2.998700	-5.758700	-4.531800
H	0.590100	0.551400	-6.953000	H	1.302900	-6.015400	-4.071899
H	2.750500	0.686200	-5.724000	H	1.764699	-6.006900	-5.787800
H	2.811499	0.336799	-3.279700	H	8.800899	1.788699	1.479400
H	-6.334200	6.063699	3.317200	H	7.302499	2.649900	1.058900
H	-4.864899	5.728799	2.372200	H	7.272000	1.370900	2.289899
H	-6.469999	5.418200	1.668100	H	9.126400	1.166199	-0.990700
H	-7.745900	4.102400	4.186800	H	7.826699	0.322799	-1.860500
H	-7.869699	3.476300	2.528800	H	7.625100	2.024500	-1.406700
H	-7.242700	2.437100	3.825400	H	9.072999	-0.671300	0.812800
H	-5.426599	4.568500	5.190700	H	7.532100	-1.058600	1.615799
H	-4.953199	2.895400	4.825000	H	7.780500	-1.486099	-0.091000
H	-3.970100	4.245799	4.218600	H	1.323600	7.959600	-2.924300
H	-9.912600	-0.436299	-1.293000	H	2.311399	6.617100	-2.301900
H	-9.089700	0.616599	-0.122200	H	1.090599	6.312199	-3.549199
H	-8.555699	0.585099	-1.815800	H	-0.126800	7.241999	0.487500
H	-9.441499	-2.483900	0.218200	H	1.593500	7.196500	0.065799
H	-7.774000	-2.778700	0.771300	H	0.570600	8.526000	-0.531299
H	-8.674800	-1.376200	1.377099	H	-1.887899	6.830499	-1.311099
H	-8.692200	-2.471400	-2.236799	H	-1.165299	8.054399	-2.378500
H	-7.311000	-1.457300	-2.722699	H	-1.394800	6.382800	-2.947900
H	-7.049200	-2.857000	-1.676900	H	-0.944300	0.848200	7.185600
H	-2.961699	-8.083599	0.325600	H	0.173699	1.566500	6.008300
H	-2.802899	-6.513300	1.149600	H	-1.534400	1.329499	5.579000
H	-3.589900	-6.601499	-0.431200	H	0.657000	-1.151199	7.394700
H	-1.585299	-8.540499	-1.795300	H	1.107099	-2.068199	5.936099
H	-2.212999	-7.045499	-2.521400	H	1.737200	-0.428400	6.180299
H	-0.460099	-7.301900	-2.391000	H	-1.822099	-1.523400	6.816499
H	-0.435199	-8.443000	0.504800	H	-2.428099	-1.038200	5.216700
H	0.674100	-7.207000	-0.129299	H	-1.323600	-2.425400	5.365999
H	-0.274199	-6.876800	1.333899				

Table S8. Actual bond distances, calculated bond distances and Wiberg bond index for **7** and $\mathbf{7}_{opt}$.



	Bond distance determined by XRD (Å)	Bond distances estimated by B3PW91 (Å)	Bond distances estimated by PBE0 (Å)	Wiberg bond index by B3PW91	Wiberg bond index by PBE0
Pd(1)-Pd(2)	2.7914(6)	2.84909	2.82776	0.1794	0.1794
Pd(2)-Pd(3)	2.7647(5)	2.83437	2.82667	0.1545	0.1560
Pd(3)-Pd(4)	2.7670(6)	2.79930	2.78367	0.1729	0.1680
Pd(4)-Pd(5)	2.7208(5)	2.79063	2.78462	0.1777	0.1727
Pd(1)-Si(1)	2.3917(9)	2.45067	2.44774	0.5133	0.5090
Pd(1)-Si(2)	2.5408(9)	2.63021	2.60594	0.4003	0.4060
Pd(4)-Si(3)	2.5509(10)	2.58156	2.59884	0.3076	0.2877
Pd(5)-Si(3)	2.4034(9)	2.43996	2.43430	0.4968	0.5087
Pd(2)-Si(1)	2.2472(9)	2.28864	2.28019	0.5990	0.5886
Pd(2)-Si(2)	2.3397(9)	2.37760	2.35841	0.5401	0.5468
Pd(2)-Si(4)	2.4288(10)	2.47402	2.46388	0.3850	0.3787
Pd(2)-Si(5)	2.3975(7)	2.42861	2.41764	0.4016	0.3975
Pd(3)-Si(5)	2.3841(7)	2.42033	2.43654	0.4140	0.4156
Pd(4)-Si(5)	2.3771(8)	2.42791	2.40659	0.4043	0.4043
Pd(5)-Si(5)	2.3393(9)	2.37291	2.36866	0.4930	0.4951
Pd(5)-Si(4)	2.4766(9)	2.53017	2.50921	0.3607	0.3639
Si(4)-Si(5)	2.4514(10)	2.47869	2.47551	0.6886	0.6812
Pd(4)-C(1)	2.371(3)	2.37593	2.34600	0.1507	0.1484

Figure S8. Optimized molecular structure of **7** ($\mathbf{7}_{opt}$) with B3PW91 (upper) and with PBE0 (lower). The cadetblue balls are palladium atoms, the blue balls are silicon atoms, the pale blue balls are nitrogen atoms, the grey ones are carbon atoms.

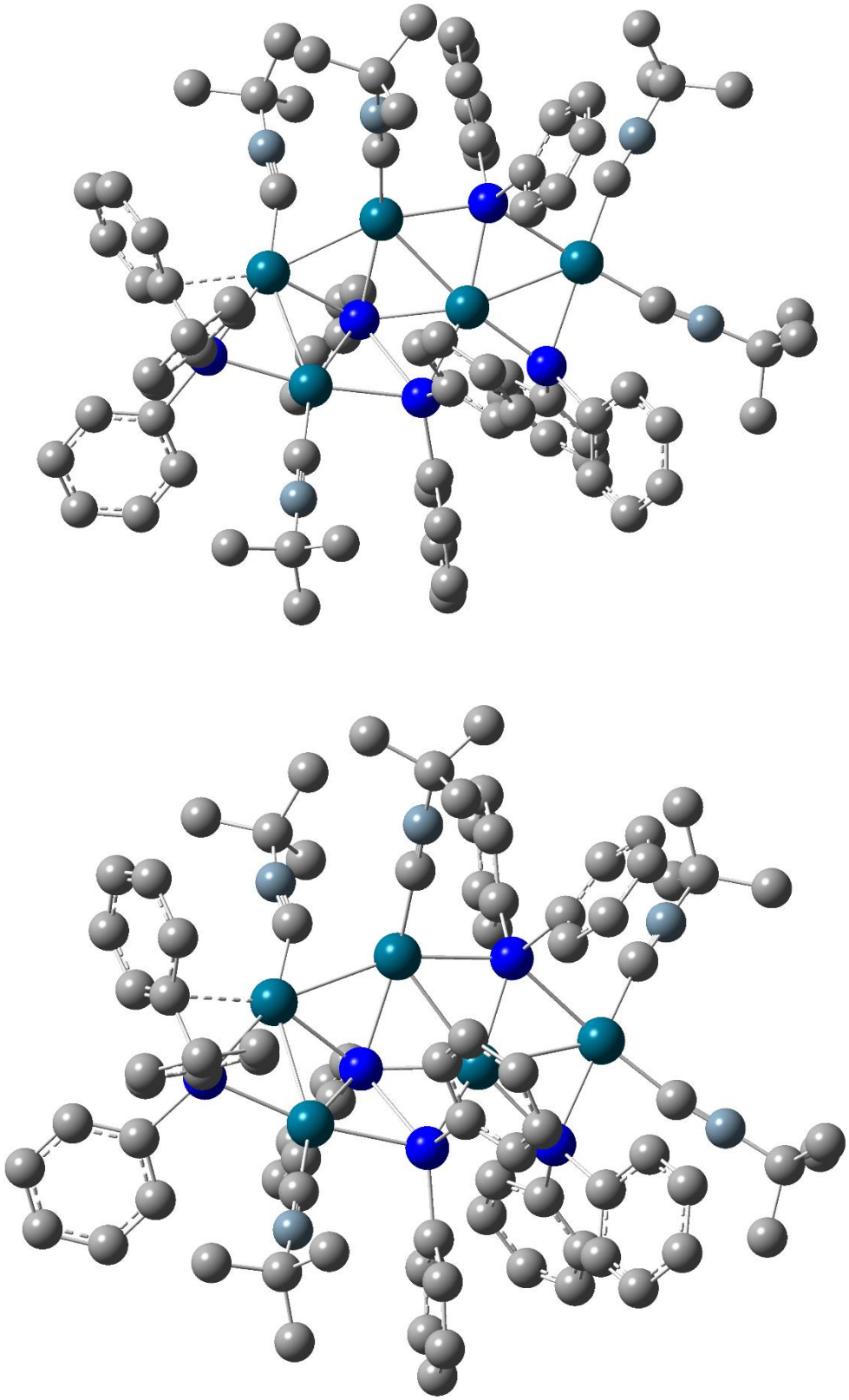


Table S9. The DFT-optimized Geometry for complex $\mathbf{7}_{opt}$ (in XYZ format)

with B3PW91 functional

Pd	4.085899	-0.167199	-0.052599	C	2.542000	1.196699	4.548500
Pd	1.253100	-0.438399	-0.191600	C	2.187400	1.089699	3.204100
Pd	-0.207800	1.959199	0.196399	C	-5.188200	1.898400	-0.823700
Pd	-2.846300	1.541900	-0.640499	C	-5.211000	2.130999	-2.220300
Pd	-2.843100	-1.187500	-0.058800	C	-5.537300	3.378499	-2.748200
Si	2.729499	-2.163700	-0.476800	C	-5.839800	4.440299	-1.894299
Si	2.234000	1.644000	0.403799	C	-5.795799	4.251600	-0.512600
Si	-4.922400	0.085299	-0.158200	C	-5.467399	3.002400	0.012300
Si	-0.509200	-2.131800	0.192300	C	-6.136999	-0.875500	-1.287000
Si	-1.003399	-0.002600	-0.976700	C	-5.766400	-2.062799	-1.939100
N	6.458300	-2.239999	-0.062000	C	-6.654800	-2.751099	-2.767500
N	6.178299	2.217399	-0.017400	C	-7.947800	-2.267800	-2.959399
N	-0.328099	4.065000	2.549899	C	-8.340300	-1.087200	-2.328300
N	-1.745700	4.290900	-1.548599	C	-7.441999	-0.399800	-1.512899
N	-4.310699	-3.644000	1.280799	C	-5.646000	0.159799	1.608299
C	3.101700	-2.753800	-2.245100	C	-6.930800	-0.299700	1.939899
C	2.636499	-1.979799	-3.323499	C	-7.416300	-0.227200	3.247100
C	2.932499	-2.316699	-4.643199	C	-6.626200	0.313900	4.260200
C	3.709600	-3.442099	-4.919400	C	-5.344600	0.774099	3.956600
C	4.183700	-4.224500	-3.866899	C	-4.863200	0.688999	2.650499
C	3.882300	-3.881999	-2.548500	C	-0.494300	-3.860800	-0.597500
C	3.078700	-3.599100	0.715899	C	-0.186300	-4.029500	-1.959700
C	2.754500	-4.934799	0.415499	C	-0.243799	-5.280900	-2.571799
C	3.003400	-5.962900	1.326500	C	-0.606400	-6.408700	-1.834100
C	3.580599	-5.679800	2.564099	C	-0.921400	-6.265500	-0.483200
C	3.894799	-4.359500	2.890800	C	-0.873400	-5.008900	0.121400
C	3.640500	-3.336100	1.978900	C	-0.420500	-2.223300	2.094299
C	2.763400	3.145199	-0.668200	C	0.240300	-3.250099	2.791700
C	3.192400	2.933900	-1.991900	C	0.257899	-3.287899	4.187100
C	3.574099	3.990700	-2.819099	C	-0.373800	-2.289799	4.927000
C	3.546700	5.301600	-2.338700	C	-1.023100	-1.251300	4.256900
C	3.113000	5.540600	-1.034100	C	-1.045800	-1.222300	2.863600
C	2.716299	4.477300	-0.219500	C	-0.867199	-0.117000	-2.875600
C	2.730399	1.945299	2.227300	C	-1.665600	-1.000600	-3.621800
C	3.646199	2.916800	2.664399	C	-1.610600	-1.025999	-5.015300
C	4.000200	3.036600	4.010299	C	-0.761199	-0.154800	-5.698599
C	3.450100	2.174800	4.959200	C	0.034399	0.737200	-4.978199

C	-0.017999	0.751599	-3.583699	H	3.077700	6.558499	-0.651299
C	5.516300	-1.543700	-0.112500	H	2.364099	4.689300	0.787099
C	7.571300	-3.141300	0.069700	H	4.099899	3.590199	1.942100
C	7.144799	-4.514899	-0.464299	H	4.711100	3.800999	4.318099
C	8.741200	-2.576099	-0.747000	H	3.728900	2.261599	6.006599
C	7.929299	-3.225299	1.560300	H	2.108099	0.512100	5.273099
C	5.301099	1.440500	0.025500	H	1.473700	0.324200	2.905299
C	7.240099	3.180000	-0.129299	H	-5.005800	1.306200	-2.899099
C	7.481200	3.439899	-1.623000	H	-5.567100	3.518799	-3.826000
C	8.491100	2.587500	0.533800	H	-6.114399	5.409099	-2.304699
C	6.804599	4.467800	0.581899	H	-6.028999	5.075900	0.157399
C	-0.203700	3.362099	1.616500	H	-5.461300	2.863399	1.090400
C	-0.480100	4.840099	3.749600	H	-4.759200	-2.449000	-1.799000
C	0.762000	5.728000	3.907300	H	-6.334300	-3.663699	-3.264899
C	-1.749000	5.692900	3.612899	H	-8.643099	-2.801900	-3.602500
C	-0.601299	3.865400	4.929499	H	-9.344199	-0.696700	-2.478799
C	-1.948499	3.252900	-1.027700	H	-7.760599	0.531700	-1.049300
C	-1.351400	5.511799	-2.189299	H	-7.565400	-0.723800	1.165700
C	-2.580900	6.121400	-2.877199	H	-8.416600	-0.590000	3.473100
C	-0.805900	6.464399	-1.116400	H	-7.003900	0.373699	5.277900
C	-0.266599	5.173400	-3.221500	H	-4.716899	1.191600	4.740800
C	-3.786300	-2.728600	0.766400	H	-3.852499	1.030800	2.430800
C	-4.987100	-4.732200	1.927000	H	0.108899	-3.168600	-2.552700
C	-4.882800	-5.964000	1.016800	H	0.005199	-5.374300	-3.625899
C	-4.296100	-4.985200	3.274400	H	-0.642399	-7.386999	-2.306800
C	-6.454400	-4.330700	2.133400	H	-1.201999	-7.136800	0.105100
H	2.019300	-1.106600	-3.123900	H	-1.132899	-4.921700	1.172899
H	2.545900	-1.704299	-5.453499	H	0.753899	-4.033999	2.243700
H	3.939099	-3.710800	-5.947600	H	0.774099	-4.099800	4.693700
H	4.782799	-5.108799	-4.073400	H	-0.363799	-2.321300	6.013899
H	4.257100	-4.508800	-1.744099	H	-1.524300	-0.467599	4.820100
H	2.285800	-5.176999	-0.534499	H	-1.567900	-0.414200	2.355699
H	2.738099	-6.985300	1.069299	H	-2.343599	-1.671300	-3.098699
H	3.774999	-6.480699	3.273300	H	-2.236699	-1.721800	-5.568899
H	4.325400	-4.125100	3.861600	H	-0.722700	-0.168399	-6.785099
H	3.873000	-2.309099	2.253099	H	0.696200	1.422600	-5.503299
H	3.243499	1.915400	-2.372999	H	0.605300	1.451000	-3.030599
H	3.897500	3.790600	-3.838100	H	7.978500	-5.216799	-0.366700
H	3.851400	6.127599	-2.976499	H	6.292799	-4.900499	0.101399

H	6.863900	-4.448799	-1.518399	H	-0.713000	4.431100	5.859800
H	9.035400	-1.590799	-0.374499	H	-1.475399	3.219899	4.807100
H	9.600800	-3.247899	-0.666700	H	0.289700	3.236800	5.001700
H	8.468900	-2.484199	-1.802000	H	-2.295999	7.054199	-3.374099
H	8.209400	-2.242500	1.950000	H	-2.984299	5.433800	-3.624799
H	7.080099	-3.601899	2.136199	H	-3.366699	6.334600	-2.148299
H	8.774300	-3.907300	1.693800	H	-0.503500	7.406100	-1.585000
H	8.287200	4.170500	-1.739799	H	-1.572700	6.679499	-0.366600
H	7.769500	2.517799	-2.135600	H	0.062900	6.024200	-0.621500
H	6.576899	3.833800	-2.093600	H	0.044999	6.088200	-3.735500
H	8.304300	2.368499	1.588799	H	0.606100	4.730799	-2.736000
H	8.794600	1.663600	0.033500	H	-0.651199	4.468800	-3.963799
H	9.314700	3.304500	0.467499	H	-5.369199	-6.817400	1.499099
H	6.621099	4.279800	1.643300	H	-5.375900	-5.777599	0.058900
H	7.597399	5.216899	0.494000	H	-3.837100	-6.215200	0.822000
H	5.891799	4.866799	0.132000	H	-4.793499	-5.812199	3.790400
H	0.673200	6.321400	4.822499	H	-3.243900	-5.243500	3.129800
H	1.665499	5.115900	3.971000	H	-4.347499	-4.095100	3.907000
H	0.858599	6.413100	3.059799	H	-6.989399	-5.144599	2.632900
H	-1.891600	6.287000	4.520700	H	-6.526800	-3.430000	2.748200
H	-1.669699	6.374300	2.761200	H	-6.937200	-4.131600	1.172899
H	-2.628200	5.059000	3.469099				

with PBE0 functional

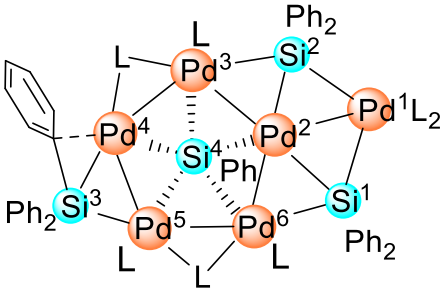
Pd	4.042699	-0.322400	-0.105599	C	2.898500	-2.904600	-2.196000
Pd	1.218900	-0.428000	-0.212000	C	2.466100	-2.133099	-3.287699
Pd	-0.117900	2.035000	0.157800	C	2.718300	-2.526099	-4.599199
Pd	-2.787699	1.642500	-0.525500	C	3.419000	-3.704200	-4.851400
Pd	-2.880800	-1.112299	-0.129399	C	3.861900	-4.482700	-3.784400
Si	2.571499	-2.248499	-0.447300	C	3.603199	-4.085300	-2.474000
Si	2.321500	1.585200	0.329700	C	2.836600	-3.652899	0.796700
Si	-4.926499	0.205900	-0.185400	C	2.459600	-4.982200	0.542500
Si	-0.580300	-2.064200	0.183200	C	2.644700	-5.980300	1.498800
Si	-1.017199	0.077000	-0.979800	C	3.209099	-5.672000	2.734599
N	6.220399	-2.584800	0.044400	C	3.574899	-4.355700	3.014700
N	6.225500	1.966400	-0.216500	C	3.384400	-3.361900	2.057900
N	0.058600	4.154999	2.490200	C	2.892299	3.054900	-0.757200
N	-1.628300	4.342400	-1.390899	C	3.257900	2.821400	-2.094199
N	-4.475600	-3.547200	1.076400	C	3.664300	3.856500	-2.934300

C	3.726399	5.164700	-2.453799	C	-0.825800	-0.045199	-2.868799
C	3.358200	5.424900	-1.134999	C	-1.553900	-0.971700	-3.630900
C	2.937100	4.384300	-0.306000	C	-1.421099	-1.029500	-5.016700
C	2.862600	1.873899	2.138800	C	-0.564000	-0.148999	-5.674899
C	3.854400	2.776699	2.550400	C	0.160500	0.786900	-4.938000
C	4.237099	2.880599	3.888199	C	0.031199	0.833699	-3.551000
C	3.638500	2.072200	4.852699	C	5.357600	-1.803799	-0.080200
C	2.654600	1.161800	4.466099	C	7.201800	-3.603500	0.285899
C	2.273499	1.069299	3.129500	C	6.622299	-4.944799	-0.170800
C	-5.086400	2.109299	-0.485899	C	8.460300	-3.249799	-0.510100
C	-5.160699	2.647199	-1.792200	C	7.488299	-3.622900	1.790400
C	-5.303700	4.014699	-2.010700	C	5.330500	1.218000	-0.124900
C	-5.350000	4.894400	-0.930100	C	7.303599	2.897699	-0.379700
C	-5.234600	4.401700	0.367900	C	7.440899	3.197600	-1.875200
C	-5.096200	3.032200	0.584400	C	8.577000	2.247300	0.168100
C	-6.067800	-0.525200	-1.532599	C	6.962700	4.170800	0.398700
C	-5.725699	-1.705700	-2.210000	C	0.076800	3.434799	1.565400
C	-6.563100	-2.263899	-3.174399	C	0.029999	4.957300	3.677300
C	-7.773100	-1.650199	-3.487399	C	1.350300	5.728100	3.763999
C	-8.132700	-0.471899	-2.837499	C	-1.158899	5.916600	3.574600
C	-7.286499	0.082200	-1.879299	C	-0.127199	4.016899	4.875900
C	-5.776200	-0.021700	1.514099	C	-1.767500	3.303100	-0.845100
C	-7.170799	-0.059199	1.664000	C	-1.104100	5.523499	-2.009200
C	-7.764899	-0.231899	2.913400	C	-2.245100	6.248800	-2.727099
C	-6.973099	-0.365700	4.052300	C	-0.504199	6.412799	-0.915899
C	-5.585600	-0.330800	3.929900	C	-0.027999	5.088600	-3.008999
C	-5.000400	-0.166600	2.675000	C	-3.889700	-2.653100	0.596800
C	-0.616200	-3.825200	-0.521800	C	-5.282799	-4.538800	1.720499
C	-0.295599	-4.069599	-1.867399	C	-5.057800	-5.874799	1.007900
C	-0.376000	-5.348000	-2.414400	C	-4.842199	-4.615500	3.185600
C	-0.781200	-6.424499	-1.626900	C	-6.746600	-4.100199	1.616100
C	-1.120300	-6.202400	-0.294000	H	1.906000	-1.218000	-3.105199
C	-1.046299	-4.920100	0.246400	H	2.355400	-1.914500	-5.420999
C	-0.511100	-2.045300	2.085399	H	3.614400	-4.016999	-5.873900
C	0.048399	-3.072799	2.862099	H	4.403000	-5.406899	-3.973400
C	0.066500	-3.002599	4.254900	H	3.949100	-4.710700	-1.655699
C	-0.463800	-1.895599	4.912000	H	1.996700	-5.242400	-0.405999
C	-1.008900	-0.854000	4.161000	H	2.337199	-6.999099	1.277900
C	-1.031100	-0.930600	2.771100	H	3.353200	-6.450399	3.479500

H	3.995099	-4.100300	3.984499	H	-0.465900	-0.188200	-6.756700
H	3.655700	-2.334700	2.294900	H	0.827800	1.480499	-5.444500
H	3.236600	1.801800	-2.476200	H	0.604300	1.563300	-2.981800
H	3.936999	3.641400	-3.964800	H	7.353599	-5.736700	0.016700
H	4.049600	5.973800	-3.103500	H	5.704500	-5.174899	0.377600
H	3.391499	6.442600	-0.752400	H	6.396700	-4.922300	-1.240200
H	2.637800	4.612099	0.714600	H	8.861399	-2.283099	-0.192600
H	4.345399	3.407699	1.813900	H	9.224000	-4.014799	-0.343500
H	5.008599	3.591199	4.177799	H	8.240700	-3.203800	-1.580199
H	3.938999	2.147600	5.894600	H	7.874099	-2.655899	2.125300
H	2.180300	0.518500	5.203100	H	6.576000	-3.851400	2.347700
H	1.500700	0.355900	2.847999	H	8.235600	-4.391699	2.007300
H	-5.145699	1.971099	-2.643999	H	8.258399	3.908100	-2.028700
H	-5.383700	4.394300	-3.026100	H	7.662800	2.284000	-2.433800
H	-5.479600	5.960500	-1.099600	H	6.516199	3.631399	-2.264699
H	-5.262099	5.083300	1.214500	H	8.463100	2.006300	1.228600
H	-5.036300	2.656300	1.603400	H	8.806700	1.327600	-0.377400
H	-4.778700	-2.189399	-1.979699	H	9.417900	2.937799	0.055500
H	-6.266799	-3.176900	-3.685299	H	6.844100	3.951800	1.463600
H	-8.428400	-2.082199	-4.239399	H	7.773800	4.895500	0.280799
H	-9.070899	0.020299	-3.081599	H	6.036400	4.614099	0.023000
H	-7.575600	1.016000	-1.401100	H	1.353900	6.343599	4.668500
H	-7.808400	0.034499	0.788199	H	2.195799	5.035800	3.804099
H	-8.848600	-0.262399	2.997800	H	1.470899	6.385699	2.897799
H	-7.434700	-0.499899	5.027300	H	-1.208000	6.536999	4.474300
H	-4.955900	-0.441399	4.809599	H	-1.054300	6.571600	2.705000
H	-3.915600	-0.174799	2.588400	H	-2.095900	5.361000	3.480800
H	0.031299	-3.248000	-2.498700	H	-0.151199	4.605100	5.798300
H	-0.110400	-5.502199	-3.457100	H	-1.059000	3.449599	4.798799
H	-0.835200	-7.424699	-2.048600	H	0.708499	3.313799	4.923999
H	-1.440899	-7.033100	0.331100	H	-1.859000	7.150299	-3.212700
H	-1.328600	-4.770000	1.284999	H	-2.690700	5.603200	-3.488599
H	0.488400	-3.940600	2.379199	H	-3.026800	6.535100	-2.018800
H	0.506200	-3.817300	4.825100	H	-0.104399	7.326399	-1.366900
H	-0.452700	-1.843499	5.997799	H	-1.268899	6.690299	-0.184100
H	-1.421900	0.020600	4.658700	H	0.307300	5.890100	-0.403400
H	-1.457099	-0.107799	2.198999	H	0.385100	5.970200	-3.508900
H	-2.236000	-1.652800	-3.126400	H	0.783700	4.563800	-2.499199
H	-1.993100	-1.758700	-5.585000	H	-0.456000	4.424199	-3.764999

H	-5.644200	-6.655799	1.501000	H	-4.985100	-3.649000	3.676200
H	-5.370900	-5.810799	-0.037799	H	-7.385799	-4.845700	2.099499
H	-4.001300	-6.154299	1.032499	H	-6.896399	-3.133600	2.104700
H	-5.440499	-5.368400	3.707600	H	-7.046100	-4.007400	0.568500
H	-3.786599	-4.891500	3.259400				

Table S10. Actual bond distances, calculated bond distances and Wiberg bond index for **8** and $\mathbf{8}_{opt}$.



	Bond distance determined by XRD (Å)	Bond distances estimated by B3PW91 (Å)	Bond distances estimated by PBE0 (Å)	Wiberg bond index by B3PW91	Wiberg bond index by PBE0
Pd(1)-Pd(2)	2.7469(11)	2.78765	2.77436	0.1862	0.1842
Pd(2)-Pd(3)	2.7591(11)	2.82962	2.81661	0.1580	0.1565
Pd(3)-Pd(4)	2.6984(11)	2.75430	2.73848	0.1744	0.1742
Pd(4)-Pd(5)	2.8175(11)	2.86345	2.85419	0.1459	0.1456
Pd(5)-Pd(6)	2.7634(12)	2.79415	2.77310	0.1659	0.1670
Pd(2)-Pd(6)	2.7514(11)	2.80697	2.79373	0.1680	0.1667
Pd(1)-Si(1)	2.538(3)	2.59129	2.57477	0.4399	0.4439
Pd(1)-Si(2)	2.525(3)	2.59424	2.58335	0.4407	0.4429
Pd(4)-Si(3)	2.445(3)	2.46848	2.46708	0.3392	0.3351
Pd(5)-Si(3)	2.414(3)	2.48730	2.47995	0.4621	0.4570
Pd(2)-Si(1)	2.263(3)	2.30179	2.29427	0.5712	0.5623
Pd(2)-Si(2)	2.263(3)	2.29940	2.29016	0.5707	0.5623
Pd(2)-Si(4)	2.275(3)	2.31654	2.30768	0.5073	0.5008
Pd(3)-Si(4)	2.473(3)	2.53523	2.53372	0.3849	0.3821
Pd(4)-Si(4)	2.352(3)	2.36431	2.35657	0.4558	0.4556
Pd(5)-Si(4)	2.352(3)	2.42025	2.41109	0.4813	0.4792
Pd(6)-Si(4)	2.603(3)	2.62597	2.61507	0.3565	0.3591
Pd(6)-Si(1)	2.598(3)	2.63274	2.61424	0.3687	0.3707
Pd(4)-C(1)	2.357(12)	2.43365	2.40724	0.1259	0.1274

Figure S9. Optimized molecular structure of **8** (**8**$_{opt}$) with B3PW91 (upper) and with PBE0 (lower). The cadetblue balls are palladium atoms, the blue balls are silicon atoms, the pale blue balls are nitrogen atoms, the grey ones are carbon atoms.

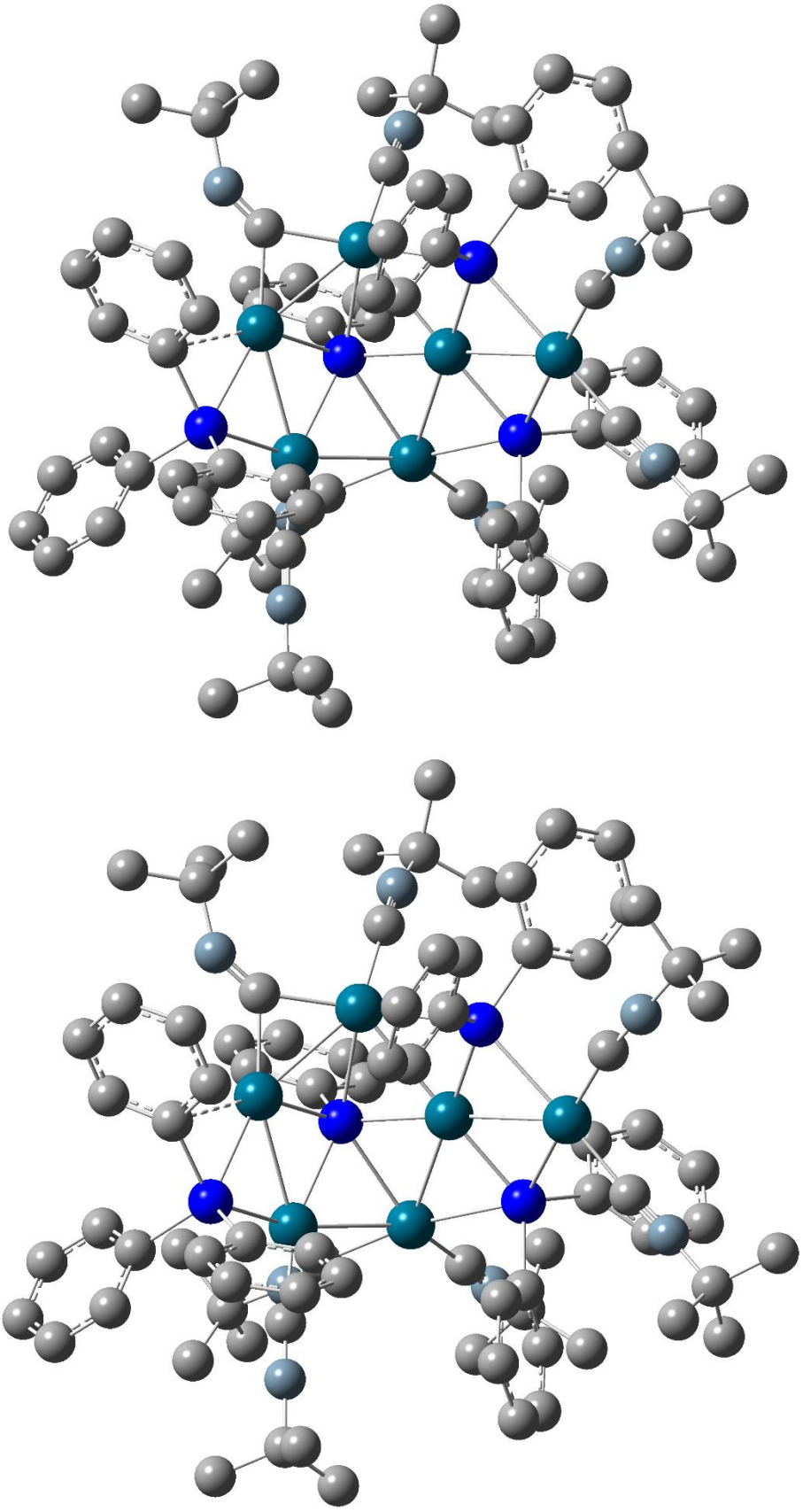


Table S11. The DFT-optimized Geometry for complex $\mathbf{8}_{opt}$ (in XYZ format)

with B3PW91 functional

Pd	3.449400	0.650800	-1.034900	C	2.624699	-4.123699	-3.887199
Pd	1.117200	0.008800	0.350600	C	1.603699	-3.573700	-4.661100
Pd	0.268799	-2.678800	0.603200	C	0.859699	-2.507600	-4.152899
Pd	-2.209799	-1.991000	-0.381600	C	1.132999	-2.008200	-2.880499
Pd	-2.601300	0.835799	-0.146599	C	-3.902299	-2.591800	-2.023899
Pd	-0.561000	2.027199	1.345000	C	-4.924600	-3.456099	-1.572499
Si	1.852399	2.189500	0.305700	C	-4.973899	-4.788500	-1.962499
Si	2.489100	-1.675099	-0.404000	C	-3.976699	-5.317399	-2.788599
Si	-3.856800	-0.678299	-1.669100	C	-2.935400	-4.503200	-3.221799
Si	-1.018600	-0.542700	1.058399	C	-2.903600	-3.157600	-2.849199
N	4.707999	3.314100	-2.164100	C	-5.651700	-0.271300	-1.156599
N	5.714200	-1.043800	-2.435900	C	-6.129000	-0.704600	0.094799
N	1.637500	-4.177600	2.973900	C	-7.436499	-0.451100	0.509000
N	-1.895000	-4.922099	0.274600	C	-8.303700	0.267100	-0.315099
N	-3.712900	3.383799	-1.716199	C	-7.848700	0.725100	-1.550500
N	-3.464899	2.475700	2.358799	C	-6.542399	0.455499	-1.963000
N	0.208700	4.252000	3.435899	C	-3.520700	-0.057800	-3.449200
C	3.080800	2.841799	1.622800	C	-4.382300	-0.399000	-4.507700
C	3.315400	2.039600	2.755099	C	-4.114099	-0.015700	-5.821500
C	4.257100	2.389800	3.721899	C	-2.953099	0.700200	-6.116400
C	4.996699	3.566700	3.585200	C	-2.070800	1.029800	-5.088499
C	4.783599	4.379899	2.472399	C	-2.358400	0.660300	-3.772599
C	3.840500	4.017600	1.507400	C	-1.421099	-0.931500	2.892100
C	1.344000	3.644199	-0.835500	C	-2.536800	-1.700899	3.263400
C	1.176999	4.966800	-0.389200	C	-2.821800	-1.974600	4.602199
C	0.783099	5.990299	-1.254400	C	-1.992300	-1.479699	5.609800
C	0.532100	5.713400	-2.598400	C	-0.875600	-0.715300	5.265000
C	0.669200	4.402700	-3.062600	C	-0.595500	-0.450299	3.923799
C	1.066700	3.389000	-2.191399	C	4.176300	2.400999	-1.650700
C	3.952700	-2.540600	0.483400	C	5.292800	4.435100	-2.844899
C	4.892999	-1.754800	1.175300	C	4.988799	5.706299	-2.040900
C	5.986400	-2.320999	1.832100	C	6.806899	4.200599	-2.939899
C	6.178600	-3.703400	1.807500	C	4.662300	4.516200	-4.242699
C	5.252499	-4.508100	1.142599	C	4.799799	-0.527800	-1.910599
C	4.151100	-3.932400	0.505100	C	6.865199	-1.671899	-3.021300
C	2.166100	-2.537900	-2.082299	C	8.094800	-1.254700	-2.201299
C	2.903299	-3.606200	-2.620399	C	6.983999	-1.187999	-4.473300

C	6.670699	-3.192799	-2.970400	H	5.385600	-5.587800	1.121500
C	1.216400	-3.776500	1.949499	H	3.425999	-4.585199	0.025799
C	2.199200	-4.463800	4.265399	H	3.720100	-4.039000	-2.050700
C	3.112799	-3.292999	4.655299	H	3.209200	-4.957599	-4.271000
C	3.001100	-5.768400	4.165200	H	1.389999	-3.970299	-5.650600
C	1.045199	-4.609699	5.267200	H	0.065000	-2.063100	-4.747400
C	-1.428999	-3.811300	0.235800	H	0.537899	-1.184500	-2.490900
C	-1.662500	-6.282500	0.733299	H	-5.712900	-3.062899	-0.936500
C	-1.620199	-6.272199	2.267500	H	-5.793599	-5.420700	-1.628799
C	-2.814599	-7.166800	0.246999	H	-4.022000	-6.358800	-3.098599
C	-0.330199	-6.774900	0.151099	H	-2.149099	-4.904799	-3.855600
C	-3.356400	2.402099	-1.182100	H	-2.113100	-2.524600	-3.243800
C	-4.116500	4.582300	-2.397599	H	-5.458000	-1.247700	0.758600
C	-3.662399	5.784300	-1.557499	H	-7.777999	-0.811600	1.476700
C	-3.440099	4.597200	-3.774999	H	-9.323800	0.467100	0.003099
C	-5.644400	4.559600	-2.540700	H	-8.515799	1.286700	-2.200700
C	-2.561899	2.124200	1.671200	H	-6.212699	0.815299	-2.934499
C	-4.762500	2.651399	2.948800	H	-5.273500	-0.989500	-4.304800
C	-5.201300	1.307200	3.545700	H	-4.803099	-0.288500	-6.617600
C	-4.652200	3.715900	4.050299	H	-2.733699	0.988800	-7.141500
C	-5.742200	3.105000	1.857400	H	-1.155699	1.574200	-5.309799
C	-0.006700	3.474499	2.580700	H	-1.665100	0.927799	-2.977699
C	0.522000	5.156800	4.505800	H	-3.188100	-2.093400	2.484700
C	1.451699	6.247399	3.956199	H	-3.692400	-2.574000	4.860000
C	1.221299	4.357600	5.614700	H	-2.213700	-1.687999	6.653900
C	-0.789399	5.767699	5.018700	H	-0.222199	-0.325800	6.043199
H	2.748000	1.117100	2.868900	H	0.275800	0.147100	3.663599
H	4.418000	1.742700	4.581400	H	3.909799	5.849999	-1.940000
H	5.733299	3.843899	4.335399	H	5.430100	5.645200	-1.042400
H	5.357100	5.297100	2.352700	H	5.413499	6.573699	-2.555599
H	3.700600	4.662100	0.643399	H	7.023200	3.288500	-3.503200
H	1.357900	5.204899	0.655800	H	7.278300	5.044900	-3.451799
H	0.672699	7.005300	-0.878300	H	7.247599	4.107200	-1.943500
H	0.232400	6.508699	-3.276799	H	4.856900	3.601200	-4.809300
H	0.470300	4.171900	-4.107000	H	3.581200	4.656600	-4.165500
H	1.177900	2.373999	-2.568399	H	5.090300	5.362699	-4.788500
H	4.766499	-0.673200	1.188999	H	8.223700	-0.168800	-2.218599
H	6.691399	-1.681300	2.358400	H	7.988900	-1.576600	-1.161999
H	7.036300	-4.149100	2.305500	H	8.991200	-1.719399	-2.623200

H	7.109399	-0.102200	-4.511900	H	-3.752800	5.491900	-4.322599
H	7.853100	-1.655499	-4.945799	H	-2.352900	4.613999	-3.665300
H	6.090400	-1.455999	-5.043400	H	-3.717300	3.712800	-4.353999
H	5.782000	-3.484399	-3.535199	H	-5.975900	5.467100	-3.054499
H	7.544599	-3.686600	-3.406599	H	-5.965100	3.691300	-3.121700
H	6.552899	-3.532100	-1.937900	H	-6.127200	4.516600	-1.560699
H	2.538900	-2.364000	4.705100	H	-4.472900	0.951200	4.278600
H	3.555400	-3.486399	5.637900	H	-6.171799	1.425699	4.038599
H	3.915299	-3.168899	3.923899	H	-5.296100	0.555899	2.758599
H	2.356599	-6.598000	3.859800	H	-3.947899	3.396200	4.823699
H	3.810399	-5.664600	3.438200	H	-4.306800	4.667800	3.636499
H	3.434499	-6.007200	5.141299	H	-5.630699	3.873299	4.514600
H	0.448099	-3.694899	5.306699	H	-5.812500	2.355000	1.065999
H	0.390500	-5.440299	4.988500	H	-6.736100	3.248300	2.293400
H	1.451200	-4.809499	6.263900	H	-5.416599	4.052800	1.418500
H	-0.811899	-5.630499	2.624599	H	1.713200	6.943200	4.759500
H	-2.564199	-5.897800	2.674399	H	2.369400	5.806100	3.559200
H	-1.460400	-7.289200	2.641899	H	0.957400	6.810300	3.158800
H	-2.868000	-7.162000	-0.844299	H	1.469300	5.025400	6.445600
H	-2.667000	-8.196600	0.589100	H	0.567500	3.564299	5.988099
H	-3.770200	-6.802399	0.634899	H	2.142000	3.904900	5.238000
H	-0.361100	-6.757500	-0.942200	H	-0.576200	6.462500	5.836799
H	0.492499	-6.135800	0.481900	H	-1.299700	6.315299	4.221300
H	-0.137700	-7.802500	0.478100	H	-1.460299	4.988200	5.389300
H	-3.954800	6.711699	-2.060000				
H	-4.127900	5.764300	-0.567999				
H	-2.576500	5.778800	-1.432900				

with PBE0 functional

Pd	3.345300	0.862600	-1.081400	N	4.281000	3.643600	-2.222500
Pd	1.112800	0.040100	0.345599	N	5.728799	-0.696700	-2.426500
Pd	0.419200	-2.685900	0.490800	N	1.930999	-4.164200	2.767800
Pd	-2.097299	-2.085399	-0.406700	N	-1.686899	-4.986500	0.233500
Pd	-2.644300	0.689500	-0.022599	N	-3.982800	3.158299	-1.525700
Pd	-0.637199	1.922200	1.441000	N	-3.515100	2.197999	2.542700
Si	1.708499	2.255700	0.336100	N	0.090699	4.129500	3.553399
Si	2.558000	-1.526300	-0.492600	C	-2.617800	1.911900	1.817200
Si	-3.764199	-0.781899	-1.675199	C	-4.847700	2.213400	3.077099
Si	-0.965299	-0.646600	1.077100	C	-5.187100	0.794899	3.544600

C	-4.879100	3.188800	4.257400
C	-5.812400	2.666400	1.977000
C	-0.117100	3.359300	2.693300
C	0.383500	5.034700	4.623200
C	1.221200	6.185699	4.058899
C	1.169300	4.268100	5.691199
C	-0.943600	5.550300	5.187400
C	2.934800	2.957600	1.623399
C	3.233400	2.160600	2.741900
C	4.174900	2.552299	3.690499
C	4.848000	3.766199	3.547899
C	4.571400	4.573600	2.446700
C	3.629900	4.169500	1.499199
C	1.042700	3.696500	-0.733000
C	0.839999	4.999899	-0.251900
C	0.319599	6.007900	-1.064400
C	-0.026999	5.732500	-2.385799
C	0.142399	4.438400	-2.880900
C	0.669800	3.441299	-2.063899
C	4.081000	-2.332400	0.342000
C	4.975800	-1.515399	1.054099
C	6.107800	-2.035699	1.680000
C	6.384300	-3.400500	1.602400
C	5.504099	-4.235700	0.916300
C	4.364200	-3.707300	0.309300
C	2.246900	-2.346600	-2.189500
C	3.026700	-3.350499	-2.783499
C	2.746499	-3.831600	-4.062399
C	1.680300	-3.308800	-4.790299
C	0.892899	-2.306200	-4.225299
C	1.169200	-1.843300	-2.941500
C	-3.711500	-2.669700	-2.094299
C	-4.685599	-3.604600	-1.680599
C	-4.610100	-4.939199	-2.049999
C	-3.533300	-5.398399	-2.815200
C	-2.539800	-4.512900	-3.210800
C	-2.630700	-3.164900	-2.857600
C	-5.594999	-0.455000	-1.256300
C	-6.109800	-0.913800	-0.031600
C	-7.439100	-0.703800	0.328400
C	-8.291700	-0.008599	-0.527099
C	-7.801599	0.468300	-1.740099
C	-6.472400	0.244300	-2.097700
C	-3.315300	-0.051200	-3.382000
C	-4.076099	-0.342399	-4.526300
C	-3.708500	0.128900	-5.785199
C	-2.545799	0.883100	-5.935099
C	-1.761300	1.164099	-4.819100
C	-2.149299	0.708600	-3.559100
C	-1.285700	-1.127800	2.899999
C	-2.338399	-1.977499	3.273300
C	-2.557399	-2.321700	4.606699
C	-1.723200	-1.819600	5.604699
C	-0.668900	-0.974900	5.256699
C	-0.454699	-0.638199	3.921100
C	3.882300	2.670700	-1.703400
C	4.690400	4.839200	-2.897500
C	4.376300	6.036200	-1.996200
C	6.194200	4.741499	-3.169400
C	3.902800	4.930200	-4.208099
C	4.771300	-0.220199	-1.947800
C	6.934399	-1.298099	-2.914300
C	8.052299	-0.968900	-1.919900
C	7.235699	-0.707100	-4.294200
C	6.721300	-2.811000	-3.004699
C	1.465900	-3.770399	1.762100
C	2.527299	-4.398900	4.050600
C	3.328200	-3.149599	4.431400
C	3.444399	-5.619599	3.941099
C	1.401999	-4.650899	5.058400
C	-1.234499	-3.872800	0.172799
C	-1.404300	-6.331699	0.698699
C	-1.281400	-6.296600	2.224700
C	-2.560100	-7.242700	0.286500
C	-0.097099	-6.803599	0.055300
C	-3.532799	2.218299	-0.993000
C	-4.513799	4.276400	-2.247200
C	-3.938400	5.556099	-1.634099

C	-4.088500	4.132599	-3.711199	H	-1.893500	-2.084000	6.645400
C	-6.038899	4.245500	-2.113799	H	-0.012699	-0.578200	6.028600
H	2.714099	1.210200	2.859899	H	0.367800	0.023599	3.655800
H	4.386800	1.909399	4.541799	H	3.305999	6.081300	-1.775900
H	5.583800	4.076500	4.285200	H	4.928000	5.964100	-1.054600
H	5.094400	5.519499	2.322500	H	4.672000	6.960099	-2.502399
H	3.438600	4.810300	0.642200	H	6.417099	3.876200	-3.800000
H	1.092300	5.234299	0.779499	H	6.533699	5.644799	-3.684800
H	0.182600	7.009899	-0.663999	H	6.750699	4.643900	-2.233200
H	-0.427399	6.516800	-3.023500	H	4.107100	4.062900	-4.842199
H	-0.134100	4.207999	-3.907500	H	2.829400	4.972200	-4.005400
H	0.807400	2.438000	-2.464200	H	4.197500	5.835300	-4.747700
H	4.780599	-0.445100	1.109400	H	8.193799	0.112700	-1.840499
H	6.776499	-1.373500	2.225200	H	7.809600	-1.364199	-0.929799
H	7.272000	-3.809900	2.077600	H	8.988699	-1.420299	-2.261200
H	5.702500	-5.303700	0.856299	H	7.369300	0.376599	-4.230300
H	3.674700	-4.385099	-0.188000	H	8.155200	-1.148800	-4.689300
H	3.878800	-3.759500	-2.248900	H	6.419600	-0.918200	-4.990500
H	3.366200	-4.615500	-4.492700	H	5.897100	-3.043200	-3.684099
H	1.465900	-3.676799	-5.790399	H	7.633800	-3.284000	-3.380300
H	0.063300	-1.880000	-4.784899	H	6.488700	-3.224400	-2.019400
H	0.540899	-1.068500	-2.505100	H	2.667100	-2.280600	4.489799
H	-5.531299	-3.264700	-1.088200	H	3.798799	-3.301600	5.408199
H	-5.391799	-5.630800	-1.745499	H	4.105900	-2.948800	3.689699
H	-3.480700	-6.444500	-3.106900	H	2.876700	-6.504200	3.638000
H	-1.690900	-4.858000	-3.795100	H	4.234800	-5.438199	3.208100
H	-1.873899	-2.476399	-3.225500	H	3.905000	-5.818699	4.913299
H	-5.448400	-1.439300	0.656200	H	0.725100	-3.793199	5.105900
H	-7.808800	-1.079500	1.279599	H	0.823600	-5.536900	4.780499
H	-9.329400	0.158499	-0.250900	H	1.833100	-4.816500	6.050699
H	-8.459599	1.010100	-2.415700	H	-0.467100	-5.634899	2.528499
H	-6.112399	0.621500	-3.052099	H	-2.209100	-5.931200	2.674900
H	-4.964600	-0.964299	-4.435999	H	-1.083800	-7.304699	2.604700
H	-4.320299	-0.106400	-6.652700	H	-2.668699	-7.255500	-0.800700
H	-2.248400	1.239200	-6.918199	H	-2.376199	-8.263700	0.636300
H	-0.842700	1.736000	-4.928300	H	-3.500699	-6.887899	0.717700
H	-1.533499	0.939800	-2.691399	H	-0.186300	-6.799299	-1.035000
H	-2.992300	-2.377299	2.500299	H	0.727699	-6.143100	0.336000
H	-3.380699	-2.982800	4.868099	H	0.133200	-7.822900	0.383299

H	-4.325599	6.424800	-2.175299	H	-5.884700	3.221999	4.687799
H	-4.228000	5.643800	-0.582899	H	-5.788000	1.972600	1.132500
H	-2.846800	5.557600	-1.695499	H	-6.832000	2.698999	2.373799
H	-4.493700	4.967700	-4.290900	H	-5.545099	3.666200	1.620999
H	-2.998900	4.139400	-3.794600	H	1.463299	6.888500	4.861900
H	-4.457499	3.194300	-4.133800	H	2.151900	5.807100	3.627500
H	-6.470300	5.080200	-2.674299	H	0.665400	6.722499	3.284300
H	-6.443200	3.308399	-2.504599	H	1.402899	4.938800	6.523799
H	-6.337600	4.336800	-1.065799	H	0.580300	3.429199	6.072700
H	-4.461799	0.446100	4.284500	H	2.102999	3.881600	5.274299
H	-6.185599	0.786299	3.993600	H	-0.748900	6.242099	6.012400
H	-5.174500	0.104900	2.697400	H	-1.512300	6.077500	4.416200
H	-4.177500	2.871999	5.034499	H	-1.551300	4.721500	5.561399
H	-4.606200	4.197199	3.932300				

X-ray data collection and reduction

X-ray crystallography for compounds **5**, **6**, **7** and **8** was performed on a Rigaku Saturn CCD area detector with graphite monochromated Mo-Kα radiation (λ=0.71075 Å). The data were collected at 113(2) K using ω scan in the θ range of 1.87 ≤ θ ≤ 31.23 deg (**5**), 2.07≤ θ ≤ 31.32 deg (**6**), 1.98 ≤ θ ≤ 31.37 deg (**7**), 1.65 ≤ θ ≤ 29.05 deg (**8**). The data obtained were processed using Crystal-Clear (Rigaku) on a Pentium computer, and were corrected for Lorentz and polarization effects. The structures were solved by direct methods[7], and expanded using Fourier techniques. Hydrogen atoms were refined using the riding model. The final cycle of full-matrix least-squares refinement on F^2 was based on 28,869 observed reflections and 952 variable parameters for **5**, 32,072 observed reflections and 1,040 variable parameters for **6**, 23,931 observed reflections and 912 variable parameters for **7**, 18,387 observed reflections and 886 variable parameters for **8**. Neutral atom scattering factors were taken from International Tables for Crystallography (IT), Vol. C, Table 6.1.1.4[8]. Anomalous dispersion effects were included in Fcalc[9]; the values for Δf' and Δf'' were those of Creagh and McAuley[10]. The values for the mass attenuation coefficients are those of Creagh and Hubbell[11]. All calculations were performed using the CrystalStructure[12] crystallographic software package except for refinement, which was performed using SHELXL Version 2017/1[13].Details of final refinement as well as the bond lengths and angle are summarized in Tables S12, S13, S14 and S15, and the numbering scheme employed is also shown in Figures S10, 11, 12 and 13, which were drawn with ORTEP at 50% probability ellipsoids. CCDC 2078821 (**5**), 2078822 (**6**), 2078823 (**7**) and 2078824 (**8**) contain the supplementary crystallographic data for this paper.

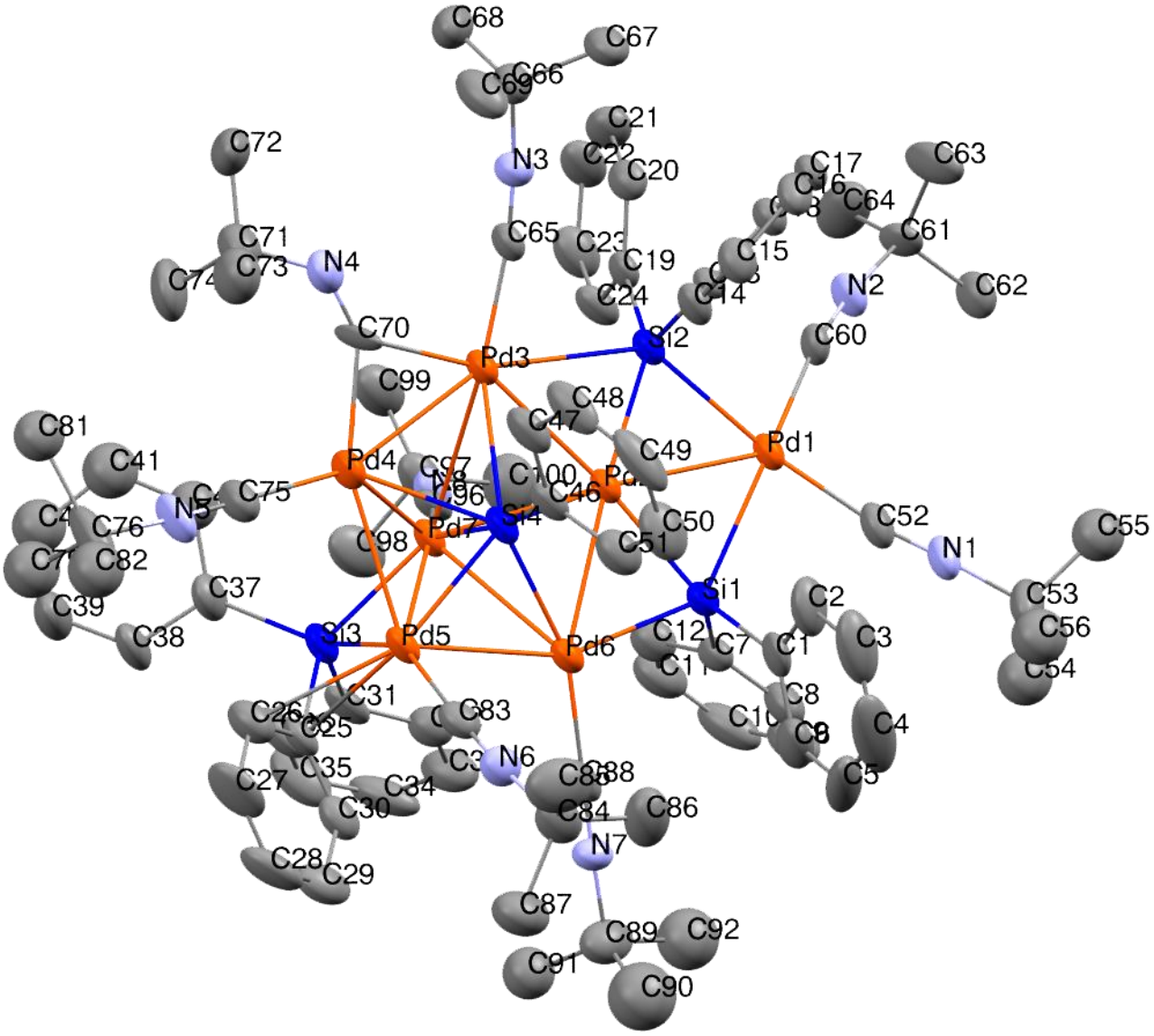


Figure S11. ORTEP drawing of **5** (50% probability of the thermal ellipsoids). Hydrogen atoms were omitted for clarity. Three ^{t}Bu group and one phenyl group were found to be disordered. The site occupancy factor for the carbons derived from the methyl groups on these ^{t}Bu groups and a phenyl group was defined as follows: 0.6 for C40, C41, C42, C77, C78 and C79, 0.4 for C43, C44, C45, C80, C81 and C82, 0.5 for C54, C55, C56, C57, C57, C58 and C59, 0.7 for C90, C91 and C92, 0.3 for C93, C94 and C95, respectively.

Table S12-1. Crystal data and structure refinement for **5**.

Empirical Formula	$C_{88}H_{112}N_8Pd_7Si_4$
Formula Weight	2139.05
Crystal Color, Habit	black, platelet
Crystal Dimensions	0.150 X 0.050 X 0.010 mm
Crystal System	monoclinic
Lattice Type	Primitive
Lattice Parameters	a = 23.5338(9) Å b = 17.3277(6) Å c = 26.3271(9) Å β = 111.647(4) ° V = 9978.7(7) Å^3
Space Group	$P2_1/n$ (#14)
Z value	4
D_{calc}	1.424 g/cm^3
F_{000}	4296.00
μ(MoKα)	13.237 cm^{-1}
Diffractometer	Saturn724
Radiation	MoKα (λ = 0.71075 Å) graphite monochromated
Voltage, Current	50kV, 24mA
Temperature	-160.0°C
Detector Aperture	72.8 x 72.8 mm
Data Images	720 exposures
ω oscillation Range (χ=45.0, ϕ=0.0)	-70.0 - 110.0°
Exposure Rate	64.0 sec./°
Detector Swing Angle	20.00°
ω oscillation Range (χ=45.0, ϕ=90.0)	-70.0 - 110.0°
Exposure Rate	64.0 sec./°
Detector Swing Angle	20.00°
Detector Position	45.00 mm
Pixel Size	0.035 mm
$2\theta_{max}$	62.3°
No. of Reflections Measured	Total: 90976 Unique: 28869 (R_{int} = 0.1038)
Corrections	Lorentz-polarization Absorption (trans. factors: 0.916 - 0.987)

Structure Solution	Direct Methods (SHELXT Version 2014/5)
Refinement	Full-matrix least-squares on F^2
Function Minimized	Σ w $(Fo^2 - Fc^2)^2$
Least Squares Weights	$w = 1/ [\sigma^2(Fo^2) + (0.0552 \cdot P)^2 + 0.0000 \cdot P]$ where $P = (Max(Fo^2,0) + 2Fc^2)/3$
$2\theta_{max}$ cutoff	62.3^o
Anomalous Dispersion	All non-hydrogen atoms
No. Observations (All reflections)	28869
No. Variables	952
Reflection/Parameter Ratio	30.32
Residuals: R1 (I>2.00σ(I))	0.0662
Residuals: R (All reflections)	0.1753
Residuals: wR2 (All reflections)	0.1451
Goodness of Fit Indicator	0.951
Max Shift/Error in Final Cycle	0.002
Maximum peak in Final Diff. Map	1.47 $e^-/Å^3$
Minimum peak in Final Diff. Map	-1.11 $e^-/Å^3$

Table S12-2. Atomic coordinates and B_{iso}/B_{eq}

atom	x	y	z	B_{eq}	occ
Pd1	0.43909(2)	0.35920(3)	0.60088(2)	2.357(10)	1
Pd2	0.49286(2)	0.30719(3)	0.70612(2)	2.178(9)	1
Pd3	0.53287(2)	0.15974(3)	0.73994(2)	2.515(10)	1
Pd4	0.58177(2)	0.17265(3)	0.85088(2)	3.091(11)	1
Pd5	0.57994(2)	0.32977(3)	0.87901(2)	2.517(10)	1
Pd6	0.51990(2)	0.41582(3)	0.78568(2)	2.471(10)	1
Pd7	0.47751(2)	0.26143(3)	0.80546(2)	2.425(10)	1
Si1	0.47317(8)	0.43788(10)	0.68873(7)	2.41(3)	1
Si2	0.47204(7)	0.22380(10)	0.63562(6)	2.28(3)	1
Si3	0.47689(8)	0.28858(11)	0.89191(7)	2.79(3)	1
Si4	0.57051(7)	0.28773(11)	0.78978(6)	2.38(3)	1
N1	0.4276(3)	0.5221(4)	0.5449(2)	3.75(12)	1
N2	0.3594(2)	0.2796(3)	0.4909(2)	3.13(11)	1
N3	0.5413(2)	0.0269(3)	0.6637(2)	3.02(10)	1
N4	0.5887(3)	0.0134(4)	0.8015(2)	4.20(13)	1
N5	0.6620(3)	0.1271(4)	0.9722(2)	4.56(14)	1
N6	0.6715(2)	0.4678(3)	0.8927(2)	3.06(10)	1
N7	0.4934(3)	0.5759(3)	0.8291(2)	3.07(10)	1
N8	0.3390(3)	0.2263(3)	0.7531(2)	3.27(11)	1
C1	0.5276(3)	0.5152(4)	0.6839(2)	3.49(14)	1
C2	0.5743(3)	0.4951(5)	0.6648(3)	4.53(17)	1
C3	0.6190(4)	0.5487(7)	0.6655(4)	6.3(2)	1
C4	0.6163(5)	0.6216(8)	0.6838(4)	7.9(4)	1
C5	0.5710(6)	0.6444(5)	0.7028(3)	6.8(3)	1
C6	0.5278(4)	0.5904(5)	0.7030(3)	4.78(18)	1
C7	0.3969(3)	0.4845(4)	0.6802(2)	2.69(12)	1
C8	0.3773(4)	0.5544(5)	0.6568(3)	4.10(16)	1
C9	0.3210(4)	0.5867(6)	0.6498(3)	5.3(2)	1
C10	0.2814(4)	0.5438(7)	0.6663(3)	5.6(2)	1
C11	0.2979(4)	0.4727(6)	0.6885(3)	4.87(18)	1
C12	0.3552(3)	0.4442(4)	0.6957(3)	3.68(14)	1
C13	0.5276(3)	0.2054(3)	0.5998(2)	2.16(11)	1
C14	0.5904(3)	0.2147(4)	0.6298(2)	2.94(12)	1
C15	0.6340(3)	0.2029(4)	0.6063(3)	3.22(13)	1
C16	0.6160(3)	0.1806(4)	0.5523(3)	3.30(13)	1
C17	0.5544(3)	0.1718(4)	0.5217(3)	3.11(13)	1
C18	0.5113(3)	0.1846(4)	0.5448(2)	2.72(12)	1

C19	0.4054(3)	0.1536(4)	0.6062(2)	2.56(12)	1
C20	0.4061(3)	0.0882(4)	0.5761(3)	3.12(13)	1
C21	0.3557(3)	0.0392(4)	0.5557(3)	4.00(15)	1
C22	0.3050(3)	0.0538(5)	0.5666(3)	4.13(16)	1
C23	0.3035(3)	0.1165(5)	0.5975(3)	4.28(16)	1
C24	0.3531(3)	0.1667(4)	0.6169(3)	3.29(13)	1
C25	0.5367(3)	0.3493(4)	0.9471(2)	2.66(12)	1
C26	0.5912(3)	0.3145(5)	0.9810(3)	4.03(15)	1
C27	0.6362(4)	0.3587(6)	1.0214(3)	5.5(2)	1
C28	0.6284(4)	0.4340(6)	1.0269(3)	5.3(2)	1
C29	0.5761(4)	0.4699(5)	0.9929(3)	4.41(17)	1
C30	0.5311(3)	0.4277(4)	0.9524(3)	3.34(14)	1
C31	0.4039(3)	0.3460(4)	0.8800(3)	3.39(14)	1
C32	0.3830(3)	0.4021(4)	0.8399(3)	3.65(14)	1
C33	0.3312(4)	0.4435(5)	0.8311(3)	4.80(18)	1
C34	0.2965(4)	0.4309(6)	0.8624(4)	5.9(2)	1
C35	0.3151(4)	0.3769(6)	0.9027(4)	6.0(2)	1
C36	0.3681(4)	0.3348(5)	0.9120(3)	4.84(18)	1
C37	0.4696(4)	0.2003(5)	0.9307(3)	4.33(16)	1
C38	0.4814(4)	0.2008(5)	0.9871(3)	4.40(17)	1
C39	0.4726(5)	0.1393(5)	1.0146(3)	6.5(2)	1
C40	0.4712(8)	0.0656(9)	0.9929(7)	6.0(3)	0.600000
C41	0.4662(8)	0.0581(9)	0.9388(7)	6.4(4)	0.600000
C42	0.4682(7)	0.1238(8)	0.9095(6)	5.0(3)	0.600000
C43	0.4255(9)	0.0841(10)	0.9814(7)	3.5(3)	0.400000
C44	0.4118(8)	0.0823(10)	0.9263(7)	3.7(3)	0.400000
C45	0.4263(7)	0.1440(9)	0.9004(6)	2.4(3)	0.400000
C46	0.6446(3)	0.2934(4)	0.7780(2)	2.71(12)	1
C47	0.6787(3)	0.2304(5)	0.7744(2)	3.54(14)	1
C48	0.7286(3)	0.2349(6)	0.7585(3)	4.41(18)	1
C49	0.7454(4)	0.3067(7)	0.7461(3)	5.4(2)	1
C50	0.7137(4)	0.3703(6)	0.7490(3)	4.96(18)	1
C51	0.6638(3)	0.3645(5)	0.7647(3)	3.71(14)	1
C52	0.4302(3)	0.4660(5)	0.5683(3)	3.46(14)	1
C53	0.4246(4)	0.5960(5)	0.5175(3)	4.63(18)	1
C54	0.3845(11)	0.6501(12)	0.5317(9)	6.3(4)	1/2
C55	0.4054(10)	0.5787(11)	0.4558(8)	5.7(4)	1/2
C56	0.4902(9)	0.6271(11)	0.5389(8)	6.4(4)	1/2
C57	0.4473(16)	0.5924(18)	0.4767(14)	11.6(9)	1/2

C58	0.4342(14)	0.6609(15)	0.5568(12)	9.6(7)	1/2
C59	0.3567(14)	0.6175(17)	0.5000(13)	10.6(8)	1/2
C60	0.3934(3)	0.3007(4)	0.5321(2)	2.73(12)	1
C61	0.3144(3)	0.2628(4)	0.4362(3)	3.35(14)	1
C62	0.2886(3)	0.3398(4)	0.4099(3)	3.90(15)	1
C63	0.3497(4)	0.2220(5)	0.4046(3)	6.5(2)	1
C64	0.2655(4)	0.2126(5)	0.4424(4)	6.5(2)	1
C65	0.5304(3)	0.0785(4)	0.6867(2)	2.77(12)	1
C66	0.5658(3)	-0.0376(4)	0.6439(3)	3.57(14)	1
C67	0.5584(4)	-0.0203(4)	0.5837(3)	4.23(16)	1
C68	0.5301(4)	-0.1087(4)	0.6462(3)	5.10(19)	1
C69	0.6326(4)	-0.0437(5)	0.6794(3)	5.11(19)	1
C70	0.5740(4)	0.0785(5)	0.8022(3)	4.8(2)	1
C71	0.6165(4)	-0.0459(5)	0.8433(3)	5.03(18)	1
C72	0.6098(5)	-0.1211(5)	0.8159(4)	6.6(2)	1
C73	0.6840(4)	-0.0245(5)	0.8712(4)	6.2(2)	1
C74	0.5840(5)	-0.0476(6)	0.8832(3)	6.3(2)	1
C75	0.6330(4)	0.1442(4)	0.9279(3)	4.12(16)	1
C76	0.6965(5)	0.1012(6)	1.0280(3)	6.4(2)	1
C77	0.7308(8)	0.0316(10)	1.0256(7)	6.5(4)	0.600000
C78	0.7519(6)	0.1700(9)	1.0536(6)	4.1(3)	0.600000
C79	0.6568(10)	0.0963(12)	1.0582(9)	6.5(6)	0.600000
C80	0.6536(8)	0.1203(12)	1.0605(7)	2.0(4)	0.400000
C81	0.6923(11)	0.0001(13)	1.0214(9)	5.3(5)	0.400000
C82	0.7534(13)	0.1282(17)	1.0514(11)	6.6(7)	0.400000
C83	0.6419(3)	0.4133(4)	0.8905(3)	3.15(13)	1
C84	0.7037(3)	0.5366(5)	0.8896(3)	3.93(15)	1
C85	0.7673(4)	0.5110(5)	0.8945(4)	6.4(2)	1
C86	0.6704(4)	0.5758(5)	0.8362(3)	5.9(2)	1
C87	0.7096(4)	0.5878(5)	0.9393(4)	5.8(2)	1
C88	0.5028(3)	0.5174(4)	0.8131(2)	2.93(12)	1
C89	0.4756(4)	0.6478(5)	0.8454(4)	4.91(18)	1
C90	0.5252(9)	0.7060(11)	0.8578(10)	9.5(5)	0.700000
C91	0.4398(6)	0.6337(7)	0.8843(6)	5.6(3)	0.700000
C92	0.4254(8)	0.6844(9)	0.7912(7)	7.8(4)	0.700000
C93	0.412(2)	0.651(3)	0.8308(19)	9.5(11)	0.300000
C94	0.497(2)	0.716(2)	0.8102(19)	9.2(11)	0.300000
C95	0.5385(12)	0.6849(15)	0.8935(12)	4.2(5)	0.300000
C96	0.3904(3)	0.2378(4)	0.7708(2)	2.83(12)	1

C97	0.2738(3)	0.2093(5)	0.7381(3)	3.95(15)	1
C98	0.2592(4)	0.2344(5)	0.7891(3)	5.3(2)	1
C99	0.2645(4)	0.1250(5)	0.7284(3)	5.30(19)	1
C100	0.2392(4)	0.2575(5)	0.6874(4)	5.7(2)	1

B_{eq} = 8/3 $\pi^2(U_{11}(aa^*)^2 + U_{22}(bb^*)^2 + U_{33}(cc^*)^2 + 2U_{12}(aa^*bb^*)\cos\gamma + 2U_{13}(aa^*cc^*)\cos\beta + 2U_{23}(bb^*cc^*)\cos\alpha)$

Table S12-3. Anisotropic displacement parameters

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Pd1	0.0280(3)	0.0412(3)	0.0176(2)	0.0021(2)	0.00507(19)	0.0007(2)
Pd2	0.0266(2)	0.0376(3)	0.0161(2)	-0.0005(2)	0.00500(18)	-0.0015(2)
Pd3	0.0356(3)	0.0391(3)	0.0179(2)	0.0014(2)	0.0064(2)	-0.0012(2)
Pd4	0.0447(3)	0.0447(3)	0.0192(2)	0.0022(3)	0.0015(2)	0.0009(2)
Pd5	0.0294(3)	0.0463(3)	0.0174(2)	-0.0049(2)	0.00571(19)	-0.0053(2)
Pd6	0.0329(3)	0.0392(3)	0.0201(2)	-0.0036(2)	0.0079(2)	-0.0040(2)
Pd7	0.0283(3)	0.0450(3)	0.0183(2)	-0.0062(2)	0.00792(19)	-0.0022(2)
Si1	0.0324(9)	0.0365(10)	0.0221(8)	-0.0035(8)	0.0093(7)	-0.0024(8)
Si2	0.0258(9)	0.0396(10)	0.0175(8)	-0.0001(8)	0.0033(7)	-0.0016(7)
Si3	0.0349(10)	0.0502(12)	0.0216(8)	-0.0061(9)	0.0115(8)	-0.0019(8)
Si4	0.0253(9)	0.0461(11)	0.0172(8)	-0.0001(8)	0.0056(7)	-0.0020(7)
N1	0.060(4)	0.054(4)	0.028(3)	0.014(3)	0.016(3)	0.010(3)
N2	0.031(3)	0.056(4)	0.022(3)	0.005(3)	-0.002(2)	0.003(3)
N3	0.038(3)	0.038(3)	0.033(3)	0.004(3)	0.007(3)	-0.004(3)
N4	0.073(5)	0.052(4)	0.040(4)	-0.005(4)	0.027(3)	0.002(3)
N5	0.062(4)	0.079(5)	0.021(3)	0.021(4)	0.004(3)	0.004(3)
N6	0.029(3)	0.045(4)	0.040(3)	-0.007(3)	0.010(3)	-0.004(3)
N7	0.043(3)	0.034(3)	0.041(3)	-0.001(3)	0.018(3)	-0.008(3)
N8	0.033(3)	0.057(4)	0.032(3)	-0.011(3)	0.010(3)	-0.001(3)
C1	0.054(5)	0.054(5)	0.017(3)	-0.002(4)	0.005(3)	0.008(3)
C2	0.045(4)	0.083(6)	0.048(4)	-0.014(4)	0.021(4)	0.018(4)
C3	0.051(5)	0.134(9)	0.052(5)	-0.035(6)	0.014(4)	0.022(6)
C4	0.088(8)	0.145(11)	0.048(6)	-0.090(8)	0.002(5)	0.009(6)
C5	0.134(10)	0.060(6)	0.043(5)	-0.054(6)	0.008(6)	0.008(4)
C6	0.075(6)	0.063(6)	0.030(4)	-0.020(5)	0.004(4)	0.003(4)
C7	0.035(4)	0.038(4)	0.022(3)	0.006(3)	0.002(3)	-0.002(3)
C8	0.061(5)	0.062(5)	0.031(4)	0.013(4)	0.015(4)	-0.000(4)
C9	0.078(6)	0.075(6)	0.040(4)	0.038(5)	0.010(4)	-0.008(4)
C10	0.047(5)	0.111(8)	0.045(5)	0.023(5)	0.004(4)	-0.029(5)
C11	0.053(5)	0.082(7)	0.053(5)	-0.005(5)	0.024(4)	-0.019(5)

C12	0.037(4)	0.056(5)	0.042(4)	-0.003(4)	0.009(3)	-0.008(4)
C13	0.027(3)	0.034(4)	0.021(3)	0.003(3)	0.009(2)	-0.003(3)
C14	0.033(4)	0.053(4)	0.021(3)	-0.005(3)	0.004(3)	0.000(3)
C15	0.027(3)	0.057(5)	0.037(4)	0.004(3)	0.010(3)	0.005(3)
C16	0.047(4)	0.047(4)	0.040(4)	0.009(3)	0.026(3)	0.007(3)
C17	0.056(4)	0.039(4)	0.025(3)	0.003(3)	0.016(3)	0.000(3)
C18	0.033(3)	0.043(4)	0.025(3)	0.002(3)	0.007(3)	0.000(3)
C19	0.035(3)	0.040(4)	0.017(3)	0.003(3)	0.003(3)	0.002(3)
C20	0.033(4)	0.046(4)	0.033(4)	0.008(3)	0.005(3)	0.002(3)
C21	0.048(5)	0.049(5)	0.043(4)	-0.012(4)	0.003(4)	-0.008(4)
C22	0.043(4)	0.067(5)	0.041(4)	-0.025(4)	0.007(4)	-0.011(4)
C23	0.033(4)	0.083(6)	0.045(4)	-0.012(4)	0.014(3)	-0.005(4)
C24	0.031(4)	0.062(5)	0.028(3)	-0.007(3)	0.007(3)	-0.013(3)
C25	0.033(3)	0.050(5)	0.019(3)	-0.004(3)	0.011(3)	-0.006(3)
C26	0.046(4)	0.068(5)	0.036(4)	0.008(4)	0.010(3)	-0.008(4)
C27	0.042(5)	0.118(8)	0.032(4)	-0.013(5)	-0.007(3)	-0.022(5)
C28	0.050(5)	0.101(8)	0.044(5)	-0.007(5)	0.010(4)	-0.040(5)
C29	0.049(5)	0.071(6)	0.058(5)	-0.010(4)	0.032(4)	-0.024(4)
C30	0.032(4)	0.064(5)	0.033(4)	-0.002(3)	0.015(3)	-0.004(3)
C31	0.035(4)	0.065(5)	0.026(3)	-0.014(4)	0.009(3)	-0.020(3)
C32	0.040(4)	0.052(5)	0.043(4)	-0.001(4)	0.010(3)	-0.008(4)
C33	0.044(5)	0.069(6)	0.057(5)	0.018(4)	0.005(4)	-0.015(4)
C34	0.048(5)	0.103(8)	0.059(6)	0.018(5)	0.004(4)	-0.046(6)
C35	0.041(5)	0.133(9)	0.058(6)	0.004(5)	0.023(4)	-0.019(6)
C36	0.051(5)	0.103(7)	0.033(4)	0.004(5)	0.018(4)	-0.016(4)
C37	0.073(6)	0.061(5)	0.040(4)	-0.016(4)	0.033(4)	0.001(4)
C38	0.075(6)	0.068(5)	0.029(4)	-0.022(4)	0.025(4)	-0.004(4)
C39	0.144(10)	0.065(6)	0.047(5)	-0.023(6)	0.047(6)	-0.001(5)
C46	0.023(3)	0.055(4)	0.019(3)	-0.003(3)	0.002(2)	-0.009(3)
C47	0.027(3)	0.077(5)	0.024(3)	0.003(4)	0.002(3)	-0.008(3)
C48	0.021(3)	0.109(7)	0.030(4)	0.018(4)	0.000(3)	-0.008(4)
C49	0.029(4)	0.148(10)	0.031(4)	-0.007(5)	0.013(3)	-0.016(5)
C50	0.036(4)	0.102(7)	0.055(5)	-0.011(5)	0.023(4)	0.001(5)
C51	0.031(4)	0.069(5)	0.040(4)	-0.003(4)	0.012(3)	-0.007(4)
C52	0.044(4)	0.061(5)	0.027(4)	0.007(4)	0.014(3)	0.007(4)
C53	0.083(6)	0.056(5)	0.051(5)	0.018(5)	0.041(5)	0.019(4)
C60	0.033(4)	0.042(4)	0.024(3)	0.002(3)	0.006(3)	0.009(3)
C61	0.043(4)	0.042(4)	0.026(3)	-0.001(3)	-0.006(3)	-0.012(3)
C62	0.044(4)	0.061(5)	0.032(4)	0.011(4)	0.001(3)	0.006(3)

C63	0.100(7)	0.079(6)	0.035(4)	0.038(6)	-0.013(4)	-0.015(4)
C64	0.078(7)	0.067(6)	0.068(6)	-0.026(5)	-0.015(5)	0.001(5)
C65	0.036(4)	0.044(4)	0.021(3)	0.004(3)	0.006(3)	0.001(3)
C66	0.050(5)	0.046(5)	0.039(4)	0.008(4)	0.016(4)	0.002(3)
C67	0.065(5)	0.051(5)	0.044(4)	0.012(4)	0.020(4)	-0.005(4)
C68	0.100(7)	0.043(5)	0.059(5)	-0.001(5)	0.039(5)	0.004(4)
C69	0.058(5)	0.091(6)	0.042(4)	0.030(5)	0.014(4)	-0.005(4)
C70	0.094(6)	0.045(5)	0.016(3)	0.038(4)	-0.010(3)	-0.013(3)
C71	0.084(7)	0.064(6)	0.044(5)	0.015(5)	0.025(5)	0.003(4)
C72	0.147(10)	0.048(5)	0.055(6)	-0.003(6)	0.038(6)	0.010(4)
C73	0.091(7)	0.075(7)	0.059(6)	0.003(5)	0.014(5)	0.011(5)
C74	0.102(8)	0.092(7)	0.055(5)	0.002(6)	0.040(5)	0.025(5)
C75	0.062(5)	0.058(5)	0.031(4)	0.014(4)	0.011(4)	-0.000(4)
C76	0.085(7)	0.129(9)	0.029(4)	0.048(7)	0.018(4)	0.015(5)
C83	0.035(4)	0.051(5)	0.034(4)	0.006(4)	0.014(3)	-0.007(3)
C84	0.037(4)	0.061(5)	0.046(4)	-0.017(4)	0.010(3)	-0.010(4)
C85	0.051(5)	0.081(7)	0.118(8)	-0.022(5)	0.037(6)	-0.020(6)
C86	0.073(6)	0.077(6)	0.057(5)	-0.025(5)	0.006(5)	0.010(5)
C87	0.084(7)	0.073(6)	0.071(6)	-0.005(5)	0.036(5)	-0.020(5)
C88	0.034(4)	0.053(5)	0.023(3)	-0.004(3)	0.010(3)	-0.004(3)
C89	0.064(6)	0.054(5)	0.082(6)	-0.004(4)	0.043(5)	-0.009(5)
C96	0.043(4)	0.040(4)	0.024(3)	-0.009(3)	0.012(3)	-0.013(3)
C97	0.034(4)	0.075(6)	0.040(4)	-0.019(4)	0.013(3)	-0.008(4)
C98	0.051(5)	0.091(7)	0.075(6)	-0.033(5)	0.039(4)	-0.022(5)
C99	0.067(6)	0.081(7)	0.059(5)	-0.033(5)	0.030(5)	-0.013(5)
C100	0.041(5)	0.095(7)	0.070(6)	-0.007(5)	0.005(4)	0.006(5)

The general temperature factor expression: $\exp(-2\pi^2(a^{*2}U_{11}h^2 + b^{*2}U_{22}k^2 + c^{*2}U_{33}l^2 + 2a^*b^*U_{12}hk + 2a^*c^*U_{13}hl + 2b^*c^*U_{23}kl))$

Table S12-4. Bond lengths (Å)

atom	atom	distance	atom	atom	distance
Pd1	Pd2	2.7392(7)	Pd1	Si1	2.5461(18)
Pd1	Si2	2.5336(18)	Pd1	C52	2.018(8)
Pd1	C60	2.007(6)	Pd2	Pd3	2.7548(7)
Pd2	Pd6	2.7114(7)	Pd2	Pd7	2.8803(8)
Pd2	Si1	2.3229(18)	Pd2	Si2	2.2588(17)
Pd2	Si4	2.3097(14)	Pd3	Pd4	2.7249(7)
Pd3	Si2	2.8149(15)	Pd3	Si4	2.5627(18)
Pd3	C65	1.973(7)	Pd3	C70	2.106(7)

Pd4	Pd5	2.8260(7)	Pd4	Pd7	2.7662(6)
Pd4	Si4	2.5139(19)	Pd4	C70	2.041(7)
Pd4	C75	2.002(7)	Pd5	Pd6	2.7741(7)
Pd5	Pd7	2.7421(6)	Pd5	Si3	2.667(2)
Pd5	Si4	2.3904(18)	Pd5	C25	2.389(7)
Pd5	C83	1.996(7)	Pd6	Si1	2.4082(17)
Pd6	Si4	2.5023(19)	Pd6	C88	1.999(7)
Pd7	Si3	2.329(2)	Pd7	Si4	2.4155(19)
Pd7	C96	1.956(7)	Si1	C1	1.890(8)
Si1	C7	1.905(7)	Si2	C13	1.900(7)
Si2	C19	1.909(6)	Si3	C25	1.921(6)
Si3	C31	1.907(7)	Si3	C37	1.882(8)
Si4	C46	1.881(7)	N1	C52	1.141(10)
N1	C53	1.458(10)	N2	C60	1.144(7)
N2	C61	1.468(7)	N3	C65	1.160(9)
N3	C66	1.441(10)	N4	C70	1.181(10)
N4	C71	1.472(10)	N5	C75	1.151(8)
N5	C76	1.462(9)	N6	C83	1.164(10)
N6	C84	1.429(10)	N7	C88	1.149(9)
N7	C89	1.429(11)	N8	C96	1.142(9)
N8	C97	1.466(9)	C1	C2	1.411(12)
C1	C6	1.397(11)	C2	C3	1.398(14)
C3	C4	1.362(19)	C4	C5	1.390(19)
C5	C6	1.384(15)	C7	C8	1.360(10)
C7	C12	1.383(11)	C8	C9	1.388(13)
C9	C10	1.381(15)	C10	C11	1.359(14)
C11	C12	1.381(12)	C13	C14	1.404(8)
C13	C18	1.402(8)	C14	C15	1.395(11)
C15	C16	1.381(9)	C16	C17	1.384(9)
C17	C18	1.380(11)	C19	C20	1.386(9)
C19	C24	1.377(10)	C20	C21	1.396(10)
C21	C22	1.348(13)	C22	C23	1.365(12)
C23	C24	1.393(10)	C25	C26	1.400(9)
C25	C30	1.377(10)	C26	C27	1.419(10)
C27	C28	1.333(15)	C28	C29	1.375(11)
C29	C30	1.400(10)	C31	C32	1.384(10)
C31	C36	1.409(12)	C32	C33	1.359(11)
C33	C34	1.374(15)	C34	C35	1.360(14)
C35	C36	1.388(13)	C37	C38	1.406(11)

C37	C42	1.435(17)	C37	C45	1.425(16)	
C38	C39	1.346(13)	C39	C40	1.394(19)	
C39	C43	1.480(19)	C40	C41	1.39(3)	
C40	C43	1.05(3)	C40	C44	1.82(2)	
C41	C42	1.39(2)	C41	C43	1.78(3)	
C41	C44	1.27(3)	C41	C45	1.85(2)	
C42	C44	1.71(3)	C42	C45	0.99(2)	
C43	C44	1.37(3)	C44	C45	1.38(3)	
C46	C47	1.379(11)	C46	C51	1.402(11)	
C47	C48	1.387(11)	C48	C49	1.379(15)	
C49	C50	1.350(15)	C50	C51	1.384(12)	
C53	C54	1.47(3)	C53	C55	1.55(2)	
C53	C56	1.53(2)	C53	C57	1.37(4)	
C53	C58	1.49(3)	C53	C59	1.54(3)	
C54	C58	1.13(4)	C54	C59	1.02(3)	
C55	C57	0.96(4)	C56	C57	1.69(4)	
C56	C58	1.66(4)	C61	C62	1.523(9)	
C61	C63	1.546(13)	C61	C64	1.496(13)	
C66	C67	1.558(11)	C66	C68	1.505(12)	
C66	C69	1.506(10)	C71	C72	1.470(12)	
C71	C73	1.529(13)	C71	C74	1.509(16)	
C76	C77	1.46(2)	C76	C78	1.710(17)	
C76	C79	1.44(3)	C76	C80	1.58(3)	
C76	C81	1.76(2)	C76	C82	1.34(3)	
C77	C81	1.03(3)	C77	C82	1.81(3)	
C78	C82	0.73(3)	C84	C85	1.523(12)	
C84	C86	1.497(11)	C84	C87	1.542(12)	
C89	C90	1.49(2)	C89	C91	1.57(2)	
C89	C92	1.610(17)	C89	C93	1.39(5)	
C89	C94	1.68(5)	C89	C95	1.68(2)	
C90	C94	1.20(5)	C90	C95	0.95(4)	
C91	C93	1.35(5)	C92	C93	1.32(6)	
C92	C94	1.66(5)	C97	C98	1.565(13)	
C97	C99	1.485(12)	C97	C100	1.530(11)	

Table S12-5. Bond angles (°)

atom	atom	atom	angle	atom	atom	atom	angle
Pd2	Pd1	Si1	51.99(4)	Pd2	Pd1	Si2	50.54(4)
Pd2	Pd1	C52	131.95(18)	Pd2	Pd1	C60	129.86(18)

Si1	Pd1	Si2	102.48(5)	Si1	Pd1	C52	81.0(2)
Si1	Pd1	C60	167.1(2)	Si2	Pd1	C52	166.6(2)
Si2	Pd1	C60	81.34(18)	C52	Pd1	C60	98.2(3)
Pd1	Pd2	Pd3	127.40(2)	Pd1	Pd2	Pd6	116.24(2)
Pd1	Pd2	Pd7	147.47(2)	Pd1	Pd2	Si1	59.72(4)
Pd1	Pd2	Si2	60.01(4)	Pd1	Pd2	Si4	156.98(5)
Pd3	Pd2	Pd6	116.06(2)	Pd3	Pd2	Pd7	66.02(2)
Pd3	Pd2	Si1	170.90(4)	Pd3	Pd2	Si2	67.48(4)
Pd3	Pd2	Si4	60.03(5)	Pd6	Pd2	Pd7	64.02(2)
Pd6	Pd2	Si1	56.52(4)	Pd6	Pd2	Si2	175.43(5)
Pd6	Pd2	Si4	59.14(5)	Pd7	Pd2	Si1	111.38(6)
Pd7	Pd2	Si2	120.54(5)	Pd7	Pd2	Si4	54.13(5)
Si1	Pd2	Si2	119.65(6)	Si1	Pd2	Si4	111.12(6)
Si2	Pd2	Si4	123.07(6)	Pd2	Pd3	Pd4	103.25(2)
Pd2	Pd3	Si2	47.84(4)	Pd2	Pd3	Si4	51.33(4)
Pd2	Pd3	C65	121.00(18)	Pd2	Pd3	C70	151.1(2)
Pd4	Pd3	Si2	151.06(4)	Pd4	Pd3	Si4	56.67(4)
Pd4	Pd3	C65	135.29(17)	Pd4	Pd3	C70	47.9(2)
Si2	Pd3	Si4	96.52(5)	Si2	Pd3	C65	73.54(18)
Si2	Pd3	C70	161.0(2)	Si4	Pd3	C65	153.6(2)
Si4	Pd3	C70	101.95(19)	C65	Pd3	C70	87.7(3)
Pd3	Pd4	Pd5	108.59(2)	Pd3	Pd4	Pd7	68.024(19)
Pd3	Pd4	Si4	58.41(4)	Pd3	Pd4	C70	49.95(18)
Pd3	Pd4	C75	157.5(2)	Pd5	Pd4	Pd7	58.714(17)
Pd5	Pd4	Si4	52.79(4)	Pd5	Pd4	C70	158.15(19)
Pd5	Pd4	C75	91.9(2)	Pd7	Pd4	Si4	54.19(4)
Pd7	Pd4	C70	108.3(2)	Pd7	Pd4	C75	133.0(3)
Si4	Pd4	C70	105.5(2)	Si4	Pd4	C75	136.5(2)
C70	Pd4	C75	108.7(3)	Pd4	Pd5	Pd6	109.74(2)
Pd4	Pd5	Pd7	59.556(17)	Pd4	Pd5	Si3	82.99(5)
Pd4	Pd5	Si4	56.89(5)	Pd4	Pd5	C25	112.65(17)
Pd4	Pd5	C83	131.1(2)	Pd6	Pd5	Pd7	65.089(18)
Pd6	Pd5	Si3	93.82(4)	Pd6	Pd5	Si4	57.39(4)
Pd6	Pd5	C25	111.69(14)	Pd6	Pd5	C83	81.36(18)
Pd7	Pd5	Si3	50.99(4)	Pd7	Pd5	Si4	55.64(4)
Pd7	Pd5	C25	94.84(14)	Pd7	Pd5	C83	145.37(18)
Si3	Pd5	Si4	106.53(6)	Si3	Pd5	C25	44.24(15)
Si3	Pd5	C83	145.2(2)	Si4	Pd5	C25	150.42(14)
Si4	Pd5	C83	99.7(2)	C25	Pd5	C83	105.8(3)

Pd2	Pd6	Pd5	102.05(2)	Pd2	Pd6	Si1	53.57(4)
Pd2	Pd6	Si4	52.40(3)	Pd2	Pd6	C88	150.38(15)
Pd5	Pd6	Si1	155.28(5)	Pd5	Pd6	Si4	53.58(4)
Pd5	Pd6	C88	104.93(17)	Si1	Pd6	Si4	102.15(6)
Si1	Pd6	C88	99.75(17)	Si4	Pd6	C88	157.12(16)
Pd2	Pd7	Pd4	99.05(2)	Pd2	Pd7	Pd5	98.64(2)
Pd2	Pd7	Si3	151.60(5)	Pd2	Pd7	Si4	50.79(4)
Pd2	Pd7	C96	95.4(2)	Pd4	Pd7	Pd5	61.731(17)
Pd4	Pd7	Si3	90.81(5)	Pd4	Pd7	Si4	57.57(4)
Pd4	Pd7	C96	134.05(19)	Pd5	Pd7	Si3	62.84(5)
Pd5	Pd7	Si4	54.78(4)	Pd5	Pd7	C96	156.5(2)
Si3	Pd7	Si4	117.49(6)	Si3	Pd7	C96	96.6(2)
Si4	Pd7	C96	145.1(2)	Pd1	Si1	Pd2	68.29(5)
Pd1	Si1	Pd6	138.20(8)	Pd1	Si1	C1	108.2(2)
Pd1	Si1	C7	98.76(18)	Pd2	Si1	Pd6	69.91(5)
Pd2	Si1	C1	127.8(2)	Pd2	Si1	C7	123.2(2)
Pd6	Si1	C1	97.36(18)	Pd6	Si1	C7	103.6(2)
C1	Si1	C7	108.9(3)	Pd1	Si2	Pd2	69.45(5)
Pd1	Si2	Pd3	134.04(7)	Pd1	Si2	C13	98.67(19)
Pd1	Si2	C19	110.34(18)	Pd2	Si2	Pd3	64.69(4)
Pd2	Si2	C13	122.32(18)	Pd2	Si2	C19	129.6(2)
Pd3	Si2	C13	102.89(16)	Pd3	Si2	C19	100.96(19)
C13	Si2	C19	107.8(3)	Pd5	Si3	Pd7	66.17(6)
Pd5	Si3	C25	60.2(2)	Pd5	Si3	C31	130.2(2)
Pd5	Si3	C37	123.8(3)	Pd7	Si3	C25	125.6(2)
Pd7	Si3	C31	105.9(2)	Pd7	Si3	C37	113.7(3)
C25	Si3	C31	101.7(3)	C25	Si3	C37	102.8(3)
C31	Si3	C37	104.9(4)	Pd2	Si4	Pd3	68.63(4)
Pd2	Si4	Pd4	125.84(7)	Pd2	Si4	Pd5	130.29(8)
Pd2	Si4	Pd6	68.46(5)	Pd2	Si4	Pd7	75.08(5)
Pd2	Si4	C46	106.89(18)	Pd3	Si4	Pd4	64.92(5)
Pd3	Si4	Pd5	131.01(8)	Pd3	Si4	Pd6	132.56(6)
Pd3	Si4	Pd7	76.14(5)	Pd3	Si4	C46	97.3(2)
Pd4	Si4	Pd5	70.32(5)	Pd4	Si4	Pd6	131.86(8)
Pd4	Si4	Pd7	68.24(5)	Pd4	Si4	C46	105.1(2)
Pd5	Si4	Pd6	69.04(5)	Pd5	Si4	Pd7	69.58(5)
Pd5	Si4	C46	112.95(18)	Pd6	Si4	Pd7	74.21(5)
Pd6	Si4	C46	113.7(2)	Pd7	Si4	C46	172.1(2)
C52	N1	C53	177.1(7)	C60	N2	C61	172.7(6)

C65	N3	C66	169.1(5)	C70	N4	C71	134.9(7)
C75	N5	C76	176.5(8)	C83	N6	C84	173.9(6)
C88	N7	C89	174.3(6)	C96	N8	C97	172.1(7)
Si1	C1	C2	119.1(6)	Si1	C1	C6	123.4(7)
C2	C1	C6	117.3(8)	C1	C2	C3	120.8(9)
C2	C3	C4	119.2(10)	C3	C4	C5	122.2(12)
C4	C5	C6	118.1(10)	C1	C6	C5	122.3(9)
Si1	C7	C8	125.3(6)	Si1	C7	C12	119.4(5)
C8	C7	C12	115.2(7)	C7	C8	C9	124.5(8)
C8	C9	C10	117.7(8)	C9	C10	C11	120.2(9)
C10	C11	C12	119.6(9)	C7	C12	C11	122.8(7)
Si2	C13	C14	118.3(5)	Si2	C13	C18	125.5(4)
C14	C13	C18	116.2(6)	C13	C14	C15	121.8(6)
C14	C15	C16	120.2(6)	C15	C16	C17	119.2(7)
C16	C17	C18	120.6(6)	C13	C18	C17	122.1(5)
Si2	C19	C20	124.8(5)	Si2	C19	C24	118.3(5)
C20	C19	C24	116.8(6)	C19	C20	C21	122.0(7)
C20	C21	C22	119.7(7)	C21	C22	C23	119.7(7)
C22	C23	C24	120.8(8)	C19	C24	C23	120.8(7)
Pd5	C25	Si3	75.6(2)	Pd5	C25	C26	82.8(5)
Pd5	C25	C30	107.5(5)	Si3	C25	C26	119.3(5)
Si3	C25	C30	123.1(4)	C26	C25	C30	117.4(6)
C25	C26	C27	120.0(7)	C26	C27	C28	121.0(7)
C27	C28	C29	119.9(7)	C28	C29	C30	120.3(8)
C25	C30	C29	121.3(6)	Si3	C31	C32	122.5(6)
Si3	C31	C36	122.0(5)	C32	C31	C36	115.5(7)
C31	C32	C33	123.0(8)	C32	C33	C34	120.5(8)
C33	C34	C35	119.2(9)	C34	C35	C36	120.5(10)
C31	C36	C35	121.3(8)	Si3	C37	C38	123.2(6)
Si3	C37	C42	122.2(8)	Si3	C37	C45	116.2(7)
C38	C37	C42	112.6(9)	C38	C37	C45	114.6(10)
C42	C37	C45	40.5(9)	C37	C38	C39	123.6(7)
C38	C39	C40	119.3(12)	C38	C39	C43	115.1(9)
C40	C39	C43	42.9(11)	C39	C40	C41	119.0(14)
C39	C40	C43	72.9(15)	C39	C40	C44	98.2(11)
C41	C40	C43	92.4(16)	C41	C40	C44	44.2(11)
C43	C40	C44	48.2(14)	C40	C41	C42	119.1(15)
C40	C41	C43	36.3(10)	C40	C41	C44	86.1(17)
C40	C41	C45	108.6(14)	C42	C41	C43	106.2(14)

C42	C41	C44	79.8(14)	C42	C41	C45	31.7(9)
C43	C41	C44	49.8(12)	C43	C41	C45	81.8(11)
C44	C41	C45	48.1(12)	C37	C42	C41	122.8(14)
C37	C42	C44	101.4(13)	C37	C42	C45	69.2(13)
C41	C42	C44	47.1(11)	C41	C42	C45	100.9(18)
C44	C42	C45	53.8(14)	C39	C43	C40	64.2(13)
C39	C43	C41	94.4(13)	C39	C43	C44	118.4(17)
C40	C43	C41	51.3(14)	C40	C43	C44	97(2)
C41	C43	C44	45.3(12)	C40	C44	C41	49.7(12)
C40	C44	C42	85.5(11)	C40	C44	C43	35.1(11)
C40	C44	C45	111.0(13)	C41	C44	C42	53.1(12)
C41	C44	C43	84.9(15)	C41	C44	C45	88.6(17)
C42	C44	C43	111.3(14)	C42	C44	C45	35.5(10)
C43	C44	C45	120.2(16)	C37	C45	C41	97.5(9)
C37	C45	C42	70.3(12)	C37	C45	C44	120.8(13)
C41	C45	C42	47.4(13)	C41	C45	C44	43.4(11)
C42	C45	C44	90.8(16)	Si4	C46	C47	124.7(6)
Si4	C46	C51	119.5(5)	C47	C46	C51	115.3(7)
C46	C47	C48	123.8(8)	C47	C48	C49	118.1(9)
C48	C49	C50	120.7(9)	C49	C50	C51	120.3(9)
C46	C51	C50	121.8(8)	Pd1	C52	N1	171.1(7)
N1	C53	C54	110.6(12)	N1	C53	C55	106.9(9)
N1	C53	C56	105.7(9)	N1	C53	C57	112.8(15)
N1	C53	C58	110.7(13)	N1	C53	C59	102.4(14)
C54	C53	C55	115.0(12)	C54	C53	C56	109.6(13)
C54	C53	C57	134.5(17)	C54	C53	C58	44.7(14)
C54	C53	C59	39.6(14)	C55	C53	C56	108.5(14)
C55	C53	C57	38.0(16)	C55	C53	C58	141.9(14)
C55	C53	C59	82.1(16)	C56	C53	C57	70.9(16)
C56	C53	C58	66.7(16)	C56	C53	C59	145.1(15)
C57	C53	C58	125(2)	C57	C53	C59	116.0(19)
C58	C53	C59	84.3(17)	C53	C54	C58	68(2)
C53	C54	C59	74(2)	C58	C54	C59	142(4)
C53	C55	C57	61(3)	C53	C56	C57	50.0(16)
C53	C56	C58	55.3(12)	C57	C56	C58	98.5(19)
C53	C57	C55	81(3)	C53	C57	C56	59.2(16)
C55	C57	C56	140(4)	C53	C58	C54	67.0(18)
C53	C58	C56	57.9(14)	C54	C58	C56	122(3)
C53	C59	C54	67(2)	Pd1	C60	N2	166.3(6)

N2	C61	C62	107.1(5)	N2	C61	C63	106.4(6)
N2	C61	C64	108.3(6)	C62	C61	C63	111.0(6)
C62	C61	C64	111.4(6)	C63	C61	C64	112.4(7)
Pd3	C65	N3	165.1(5)	N3	C66	C67	108.1(6)
N3	C66	C68	108.4(7)	N3	C66	C69	107.2(6)
C67	C66	C68	110.1(6)	C67	C66	C69	110.1(7)
C68	C66	C69	112.8(6)	Pd3	C70	Pd4	82.1(3)
Pd3	C70	N4	132.8(5)	Pd4	C70	N4	144.5(5)
N4	C71	C72	108.3(6)	N4	C71	C73	106.6(7)
N4	C71	C74	109.6(8)	C72	C71	C73	110.8(9)
C72	C71	C74	109.5(8)	C73	C71	C74	111.9(7)
Pd4	C75	N5	179.2(7)	N5	C76	C77	108.6(9)
N5	C76	C78	104.0(8)	N5	C76	C79	109.9(10)
N5	C76	C80	104.5(9)	N5	C76	C81	102.5(9)
N5	C76	C82	116.6(15)	C77	C76	C78	103.9(10)
C77	C76	C79	117.2(13)	C77	C76	C80	131.8(13)
C77	C76	C81	35.7(12)	C77	C76	C82	80.5(16)
C78	C76	C79	112.3(11)	C78	C76	C80	100.7(10)
C78	C76	C81	137.7(11)	C78	C76	C82	23.8(14)
C79	C76	C80	15.4(11)	C79	C76	C81	88.3(13)
C79	C76	C82	120.8(17)	C80	C76	C81	103.7(13)
C80	C76	C82	114.1(17)	C81	C76	C82	113.9(16)
C76	C77	C81	88.0(19)	C76	C77	C82	46.6(11)
C81	C77	C82	131(2)	C76	C78	C82	48(2)
C76	C81	C77	56.3(15)	C76	C82	C77	52.9(13)
C76	C82	C78	108(3)	C77	C82	C78	159(3)
Pd5	C83	N6	170.9(5)	N6	C84	C85	106.1(6)
N6	C84	C86	109.1(6)	N6	C84	C87	108.4(7)
C85	C84	C86	111.6(8)	C85	C84	C87	108.5(6)
C86	C84	C87	112.9(7)	Pd6	C88	N7	179.5(6)
N7	C89	C90	111.4(11)	N7	C89	C91	110.4(8)
N7	C89	C92	106.2(8)	N7	C89	C93	110.9(19)
N7	C89	C94	105.4(19)	N7	C89	C95	106.6(11)
C90	C89	C91	122.0(13)	C90	C89	C92	100.8(11)
C90	C89	C93	135(2)	C90	C89	C94	43.8(17)
C90	C89	C95	34.1(14)	C91	C89	C92	104.2(10)
C91	C89	C93	54(2)	C91	C89	C94	143.9(19)
C91	C89	C95	95.9(13)	C92	C89	C93	52(2)
C92	C89	C94	60.4(16)	C92	C89	C95	132.2(12)

C93	C89	C94	109(3)	C93	C89	C95	138(2)
C94	C89	C95	77.8(18)	C89	C90	C94	77(3)
C89	C90	C95	84(2)	C94	C90	C95	161(3)
C89	C91	C93	57(2)	C89	C92	C93	56(2)
C89	C92	C94	62.0(17)	C93	C92	C94	114(3)
C89	C93	C91	70(2)	C89	C93	C92	73(3)
C91	C93	C92	139(4)	C89	C94	C90	59(2)
C89	C94	C92	57.6(18)	C90	C94	C92	113(4)
C89	C95	C90	61.6(18)	Pd7	C96	N8	175.8(6)
N8	C97	C98	104.6(5)	N8	C97	C99	108.5(7)
N8	C97	C100	107.0(7)	C98	C97	C99	110.8(7)
C98	C97	C100	112.4(7)	C99	C97	C100	112.9(6)

Table S12-6. Torsion Angles(°)

(Those having bond angles > 160 or < 20 degrees are excluded.)

atom1	atom2	atom3	atom4	angle	atom1	atom2	atom3	atom4	angle
Pd2	Pd1	Si1	Pd2	-0.000(14)	Pd2	Pd1	Si1	Pd6	-0.43(9)
Pd2	Pd1	Si1	C1	124.33(9)	Pd2	Pd1	Si1	C7	-122.34(9)
Si1	Pd1	Pd2	Pd3	-173.17(7)	Si1	Pd1	Pd2	Pd6	0.28(6)
Si1	Pd1	Pd2	Pd7	82.51(7)	Si1	Pd1	Pd2	Si1	0.00(6)
Si1	Pd1	Pd2	Si2	-176.76(6)	Si1	Pd1	Pd2	Si4	-72.12(9)
Pd2	Pd1	Si2	Pd2	-0.000(15)	Pd2	Pd1	Si2	Pd3	-3.89(6)
Pd2	Pd1	Si2	C13	-121.36(7)	Pd2	Pd1	Si2	C19	125.94(10)
Si2	Pd1	Pd2	Pd3	3.60(6)	Si2	Pd1	Pd2	Pd6	177.04(6)
Si2	Pd1	Pd2	Pd7	-100.73(7)	Si2	Pd1	Pd2	Si1	176.76(6)
Si2	Pd1	Pd2	Si2	-0.00(5)	Si2	Pd1	Pd2	Si4	104.64(9)
C52	Pd1	Pd2	Pd3	-159.0(3)	C52	Pd1	Pd2	Pd6	14.5(3)
C52	Pd1	Pd2	Pd7	96.7(3)	C52	Pd1	Pd2	Si1	14.2(3)
C52	Pd1	Pd2	Si2	-162.6(3)	C52	Pd1	Pd2	Si4	-57.9(3)
C60	Pd1	Pd2	Pd3	23.3(3)	C60	Pd1	Pd2	Pd6	-163.2(3)
C60	Pd1	Pd2	Pd7	-81.0(3)	C60	Pd1	Pd2	Si1	-163.5(3)
C60	Pd1	Pd2	Si2	19.7(3)	C60	Pd1	Pd2	Si4	124.4(3)
Si1	Pd1	Si2	Pd2	2.61(6)	Si1	Pd1	Si2	Pd3	-1.27(11)
Si1	Pd1	Si2	C13	-118.75(7)	Si1	Pd1	Si2	C19	128.55(8)
Si2	Pd1	Si1	Pd2	-2.56(6)	Si2	Pd1	Si1	Pd6	-2.99(14)
Si2	Pd1	Si1	C1	121.77(7)	Si2	Pd1	Si1	C7	-124.90(7)
C52	Pd1	Si1	Pd2	-169.4(2)	C52	Pd1	Si1	Pd6	-169.8(3)
C52	Pd1	Si1	C1	-45.0(2)	C52	Pd1	Si1	C7	68.3(2)
C60	Pd1	Si2	Pd2	-164.8(2)	C60	Pd1	Si2	Pd3	-168.7(2)

C60	Pd1	Si2	C13	73.8(2)	C60	Pd1	Si2	C19	-38.9(2)
Pd1	Pd2	Pd3	Pd4	178.02(2)	Pd1	Pd2	Pd3	Si2	-3.37(2)
Pd1	Pd2	Pd3	Si4	153.70(3)	Pd1	Pd2	Pd3	C65	4.67(4)
Pd1	Pd2	Pd3	C70	179.22(4)	Pd1	Pd2	Pd6	Pd5	-175.72(2)
Pd1	Pd2	Pd6	Si1	-0.29(2)	Pd1	Pd2	Pd6	Si4	-154.26(3)
Pd1	Pd2	Pd6	C88	28.98(7)	Pd1	Pd2	Pd7	Pd4	158.11(4)
Pd1	Pd2	Pd7	Pd5	-139.33(4)	Pd1	Pd2	Pd7	Si3	-92.94(6)
Pd1	Pd2	Pd7	Si4	-168.07(5)	Pd1	Pd2	Pd7	C96	21.86(5)
Pd1	Pd2	Si1	Pd1	0.000(13)	Pd1	Pd2	Si1	Pd6	179.69(6)
Pd1	Pd2	Si1	C1	-96.70(12)	Pd1	Pd2	Si1	C7	86.29(9)
Pd1	Pd2	Si2	Pd1	-0.000(13)	Pd1	Pd2	Si2	Pd3	176.91(5)
Pd1	Pd2	Si2	C13	87.33(9)	Pd1	Pd2	Si2	C19	-99.88(10)
Pd1	Pd2	Si4	Pd3	-115.84(12)	Pd1	Pd2	Si4	Pd4	-148.26(8)
Pd1	Pd2	Si4	Pd5	117.86(13)	Pd1	Pd2	Si4	Pd6	84.88(13)
Pd1	Pd2	Si4	Pd7	163.49(11)	Pd1	Pd2	Si4	C46	-24.48(19)
Pd3	Pd2	Pd6	Pd5	-1.51(3)	Pd3	Pd2	Pd6	Si1	173.92(3)
Pd3	Pd2	Pd6	Si4	19.95(2)	Pd3	Pd2	Pd6	C88	-156.81(5)
Pd6	Pd2	Pd3	Pd4	4.56(3)	Pd6	Pd2	Pd3	Si2	-176.83(3)
Pd6	Pd2	Pd3	Si4	-19.76(2)	Pd6	Pd2	Pd3	C65	-168.79(2)
Pd6	Pd2	Pd3	C70	5.76(7)	Pd3	Pd2	Pd7	Pd4	35.510(15)
Pd3	Pd2	Pd7	Pd5	98.065(17)	Pd3	Pd2	Pd7	Si3	144.46(4)
Pd3	Pd2	Pd7	Si4	69.330(15)	Pd3	Pd2	Pd7	C96	-100.74(2)
Pd7	Pd2	Pd3	Pd4	-36.743(16)	Pd7	Pd2	Pd3	Si2	141.863(19)
Pd7	Pd2	Pd3	Si4	-61.067(14)	Pd7	Pd2	Pd3	C65	149.90(3)
Pd7	Pd2	Pd3	C70	-35.55(5)	Pd3	Pd2	Si2	Pd1	-176.91(5)
Pd3	Pd2	Si2	Pd3	0.000(12)	Pd3	Pd2	Si2	C13	-89.58(8)
Pd3	Pd2	Si2	C19	83.21(10)	Si2	Pd2	Pd3	Pd4	-178.61(5)
Si2	Pd2	Pd3	Si2	0.00(5)	Si2	Pd2	Pd3	Si4	157.07(5)
Si2	Pd2	Pd3	C65	8.04(5)	Si2	Pd2	Pd3	C70	-177.41(7)
Pd3	Pd2	Si4	Pd3	0.000(14)	Pd3	Pd2	Si4	Pd4	-32.42(7)
Pd3	Pd2	Si4	Pd5	-126.30(12)	Pd3	Pd2	Si4	Pd6	-159.28(6)
Pd3	Pd2	Si4	Pd7	-80.68(4)	Pd3	Pd2	Si4	C46	91.36(8)
Si4	Pd2	Pd3	Pd4	24.32(6)	Si4	Pd2	Pd3	Si2	-157.07(6)
Si4	Pd2	Pd3	Si4	0.00(5)	Si4	Pd2	Pd3	C65	-149.03(6)
Si4	Pd2	Pd3	C70	25.52(7)	Pd6	Pd2	Pd7	Pd4	-103.220(18)
Pd6	Pd2	Pd7	Pd5	-40.664(16)	Pd6	Pd2	Pd7	Si3	5.73(4)
Pd6	Pd2	Pd7	Si4	-69.399(15)	Pd6	Pd2	Pd7	C96	120.53(2)
Pd7	Pd2	Pd6	Pd5	40.627(16)	Pd7	Pd2	Pd6	Si1	-143.95(2)
Pd7	Pd2	Pd6	Si4	62.087(14)	Pd7	Pd2	Pd6	C88	-114.68(6)

Pd6	Pd2	Si1	Pd1	-179.69(6)	Pd6	Pd2	Si1	Pd6	-0.000(14)
Pd6	Pd2	Si1	C1	83.61(9)	Pd6	Pd2	Si1	C7	-93.40(11)
Si1	Pd2	Pd6	Pd5	-175.43(6)	Si1	Pd2	Pd6	Si1	0.00(6)
Si1	Pd2	Pd6	Si4	-153.97(6)	Si1	Pd2	Pd6	C88	29.27(8)
Pd6	Pd2	Si4	Pd3	159.28(6)	Pd6	Pd2	Si4	Pd4	126.86(11)
Pd6	Pd2	Si4	Pd5	32.98(8)	Pd6	Pd2	Si4	Pd6	-0.000(14)
Pd6	Pd2	Si4	Pd7	78.60(4)	Pd6	Pd2	Si4	C46	-109.36(9)
Si4	Pd2	Pd6	Pd5	-21.46(6)	Si4	Pd2	Pd6	Si1	153.97(6)
Si4	Pd2	Pd6	Si4	0.00(5)	Si4	Pd2	Pd6	C88	-176.76(8)
Pd7	Pd2	Si1	Pd1	-145.07(3)	Pd7	Pd2	Si1	Pd6	34.62(5)
Pd7	Pd2	Si1	C1	118.23(10)	Pd7	Pd2	Si1	C7	-58.78(10)
Si1	Pd2	Pd7	Pd4	-135.04(5)	Si1	Pd2	Pd7	Pd5	-72.48(5)
Si1	Pd2	Pd7	Si3	-26.08(7)	Si1	Pd2	Pd7	Si4	-101.22(5)
Si1	Pd2	Pd7	C96	88.71(5)	Pd7	Pd2	Si2	Pd1	142.16(3)
Pd7	Pd2	Si2	Pd3	-40.93(4)	Pd7	Pd2	Si2	C13	-130.51(7)
Pd7	Pd2	Si2	C19	42.28(11)	Si2	Pd2	Pd7	Pd4	76.99(5)
Si2	Pd2	Pd7	Pd5	139.54(5)	Si2	Pd2	Pd7	Si3	-174.06(6)
Si2	Pd2	Pd7	Si4	110.81(5)	Si2	Pd2	Pd7	C96	-59.27(5)
Pd7	Pd2	Si4	Pd3	80.68(4)	Pd7	Pd2	Si4	Pd4	48.26(7)
Pd7	Pd2	Si4	Pd5	-45.62(8)	Pd7	Pd2	Si4	Pd6	-78.60(4)
Pd7	Pd2	Si4	Pd7	-0.000(13)	Pd7	Pd2	Si4	C46	172.04(11)
Si4	Pd2	Pd7	Pd4	-33.82(6)	Si4	Pd2	Pd7	Pd5	28.74(6)
Si4	Pd2	Pd7	Si3	75.13(7)	Si4	Pd2	Pd7	Si4	0.00(6)
Si4	Pd2	Pd7	C96	-170.07(6)	Si1	Pd2	Si2	Pd1	-3.22(8)
Si1	Pd2	Si2	Pd3	173.69(6)	Si1	Pd2	Si2	C13	84.11(10)
Si1	Pd2	Si2	C19	-103.10(11)	Si2	Pd2	Si1	Pd1	3.23(8)
Si2	Pd2	Si1	Pd6	-177.08(6)	Si2	Pd2	Si1	C1	-93.47(11)
Si2	Pd2	Si1	C7	89.52(12)	Si1	Pd2	Si4	Pd3	-177.61(6)
Si1	Pd2	Si4	Pd4	149.97(9)	Si1	Pd2	Si4	Pd5	56.09(13)
Si1	Pd2	Si4	Pd6	23.11(7)	Si1	Pd2	Si4	Pd7	101.71(7)
Si1	Pd2	Si4	C46	-86.25(10)	Si4	Pd2	Si1	Pd1	156.48(6)
Si4	Pd2	Si1	Pd6	-23.82(7)	Si4	Pd2	Si1	C1	59.78(13)
Si4	Pd2	Si1	C7	-117.22(9)	Si2	Pd2	Si4	Pd3	-25.43(8)
Si2	Pd2	Si4	Pd4	-57.85(12)	Si2	Pd2	Si4	Pd5	-151.73(9)
Si2	Pd2	Si4	Pd6	175.29(6)	Si2	Pd2	Si4	Pd7	-106.11(7)
Si2	Pd2	Si4	C46	65.93(11)	Si4	Pd2	Si2	Pd1	-153.16(6)
Si4	Pd2	Si2	Pd3	23.75(8)	Si4	Pd2	Si2	C13	-65.83(12)
Si4	Pd2	Si2	C19	106.96(10)	Pd2	Pd3	Pd4	Pd5	-5.54(3)
Pd2	Pd3	Pd4	Pd7	37.860(18)	Pd2	Pd3	Pd4	Si4	-22.637(17)

Pd2	Pd3	Pd4	C70	179.22(3)	Pd2	Pd3	Pd4	C75	-160.64(7)
Pd2	Pd3	Si2	Pd1	4.03(6)	Pd2	Pd3	Si2	Pd2	0.000(15)
Pd2	Pd3	Si2	C13	119.91(8)	Pd2	Pd3	Si2	C19	-128.79(9)
Pd2	Pd3	Si4	Pd2	0.000(15)	Pd2	Pd3	Si4	Pd4	151.33(6)
Pd2	Pd3	Si4	Pd5	125.45(11)	Pd2	Pd3	Si4	Pd6	26.54(7)
Pd2	Pd3	Si4	Pd7	79.15(4)	Pd2	Pd3	Si4	C46	-105.34(7)
Pd2	Pd3	C70	Pd4	-1.6(7)	Pd2	Pd3	C70	N4	-174.2(4)
Pd4	Pd3	Si2	Pd1	6.83(17)	Pd4	Pd3	Si2	Pd2	2.80(11)
Pd4	Pd3	Si2	C13	122.71(8)	Pd4	Pd3	Si2	C19	-125.99(7)
Si2	Pd3	Pd4	Pd5	-7.68(9)	Si2	Pd3	Pd4	Pd7	35.73(9)
Si2	Pd3	Pd4	Si4	-24.77(9)	Si2	Pd3	Pd4	C70	177.09(9)
Si2	Pd3	Pd4	C75	-162.77(9)	Pd4	Pd3	Si4	Pd2	-151.33(6)
Pd4	Pd3	Si4	Pd4	0.000(13)	Pd4	Pd3	Si4	Pd5	-25.88(6)
Pd4	Pd3	Si4	Pd6	-124.79(12)	Pd4	Pd3	Si4	Pd7	-72.18(4)
Pd4	Pd3	Si4	C46	103.34(6)	Si4	Pd3	Pd4	Pd5	17.09(5)
Si4	Pd3	Pd4	Pd7	60.50(5)	Si4	Pd3	Pd4	Si4	0.00(5)
Si4	Pd3	Pd4	C70	-158.14(5)	Si4	Pd3	Pd4	C75	-138.00(9)
C65	Pd3	Pd4	Pd5	166.4(3)	C65	Pd3	Pd4	Pd7	-150.2(3)
C65	Pd3	Pd4	Si4	149.3(3)	C65	Pd3	Pd4	C70	-8.9(3)
C65	Pd3	Pd4	C75	11.3(3)	Pd4	Pd3	C70	Pd4	-0.000(15)
Pd4	Pd3	C70	N4	-172.6(11)	C70	Pd3	Pd4	Pd5	175.2(3)
C70	Pd3	Pd4	Pd7	-141.4(3)	C70	Pd3	Pd4	Si4	158.1(3)
C70	Pd3	Pd4	C70	-0.0(3)	C70	Pd3	Pd4	C75	20.1(4)
Si2	Pd3	Si4	Pd2	16.90(5)	Si2	Pd3	Si4	Pd4	168.22(5)
Si2	Pd3	Si4	Pd5	142.34(9)	Si2	Pd3	Si4	Pd6	43.44(11)
Si2	Pd3	Si4	Pd7	96.05(5)	Si2	Pd3	Si4	C46	-88.44(6)
Si4	Pd3	Si2	Pd1	-13.80(11)	Si4	Pd3	Si2	Pd2	-17.83(6)
Si4	Pd3	Si2	C13	102.08(7)	Si4	Pd3	Si2	C19	-146.62(7)
C65	Pd3	Si2	Pd1	-168.8(2)	C65	Pd3	Si2	Pd2	-172.8(2)
C65	Pd3	Si2	C13	-52.9(2)	C65	Pd3	Si2	C19	58.4(2)
C65	Pd3	Si4	Pd2	82.6(4)	C65	Pd3	Si4	Pd4	-126.0(4)
C65	Pd3	Si4	Pd5	-151.9(4)	C65	Pd3	Si4	Pd6	109.2(4)
C65	Pd3	Si4	Pd7	161.8(4)	C65	Pd3	Si4	C46	-22.7(4)
Si4	Pd3	C70	Pd4	18.5(3)	Si4	Pd3	C70	N4	-154.1(8)
C70	Pd3	Si4	Pd2	-167.7(3)	C70	Pd3	Si4	Pd4	-16.4(3)
C70	Pd3	Si4	Pd5	-42.3(3)	C70	Pd3	Si4	Pd6	-141.2(3)
C70	Pd3	Si4	Pd7	-88.6(3)	C70	Pd3	Si4	C46	86.9(3)
C65	Pd3	C70	Pd4	173.8(3)	C65	Pd3	C70	N4	1.1(9)
Pd3	Pd4	Pd5	Pd6	5.10(3)	Pd3	Pd4	Pd5	Pd7	48.213(19)

Pd3	Pd4	Pd5	Si3	96.66(2)	Pd3	Pd4	Pd5	Si4	-18.322(18)
Pd3	Pd4	Pd5	C25	130.21(2)	Pd3	Pd4	Pd5	C83	-90.72(3)
Pd3	Pd4	Pd7	Pd2	-35.349(17)	Pd3	Pd4	Pd7	Pd5	-130.35(2)
Pd3	Pd4	Pd7	Si3	171.38(2)	Pd3	Pd4	Pd7	Si4	-66.079(17)
Pd3	Pd4	Pd7	C96	71.37(4)	Pd3	Pd4	Si4	Pd2	33.45(7)
Pd3	Pd4	Si4	Pd3	-0.000(13)	Pd3	Pd4	Si4	Pd5	159.52(5)
Pd3	Pd4	Si4	Pd6	125.69(9)	Pd3	Pd4	Si4	Pd7	84.37(3)
Pd3	Pd4	Si4	C46	-91.07(7)	Pd3	Pd4	C70	Pd3	-0.000(14)
Pd3	Pd4	C70	N4	170.7(14)	Pd5	Pd4	Pd7	Pd2	95.00(2)
Pd5	Pd4	Pd7	Pd5	-0.000(14)	Pd5	Pd4	Pd7	Si3	-58.266(18)
Pd5	Pd4	Pd7	Si4	64.270(17)	Pd5	Pd4	Pd7	C96	-158.28(4)
Pd7	Pd4	Pd5	Pd6	-43.12(2)	Pd7	Pd4	Pd5	Pd7	0.000(14)
Pd7	Pd4	Pd5	Si3	48.444(16)	Pd7	Pd4	Pd5	Si4	-66.535(17)
Pd7	Pd4	Pd5	C25	82.00(2)	Pd7	Pd4	Pd5	C83	-138.93(4)
Pd5	Pd4	Si4	Pd2	-126.07(11)	Pd5	Pd4	Si4	Pd3	-159.52(5)
Pd5	Pd4	Si4	Pd5	0.000(12)	Pd5	Pd4	Si4	Pd6	-33.84(6)
Pd5	Pd4	Si4	Pd7	-75.15(4)	Pd5	Pd4	Si4	C46	109.40(7)
Si4	Pd4	Pd5	Pd6	23.42(5)	Si4	Pd4	Pd5	Pd7	66.54(5)
Si4	Pd4	Pd5	Si3	114.98(5)	Si4	Pd4	Pd5	Si4	0.00(5)
Si4	Pd4	Pd5	C25	148.53(5)	Si4	Pd4	Pd5	C83	-72.40(5)
Pd5	Pd4	C70	Pd3	-12.2(9)	Pd5	Pd4	C70	N4	158.5(6)
C70	Pd4	Pd5	Pd6	14.9(7)	C70	Pd4	Pd5	Pd7	58.1(7)
C70	Pd4	Pd5	Si3	106.5(7)	C70	Pd4	Pd5	Si4	-8.5(7)
C70	Pd4	Pd5	C25	140.0(7)	C70	Pd4	Pd5	C83	-80.9(7)
C75	Pd4	Pd5	Pd6	175.8(3)	C75	Pd4	Pd5	Pd7	-141.0(3)
C75	Pd4	Pd5	Si3	-92.6(3)	C75	Pd4	Pd5	Si4	152.4(3)
C75	Pd4	Pd5	C25	-59.1(3)	C75	Pd4	Pd5	C83	80.0(3)
Pd7	Pd4	Si4	Pd2	-50.92(7)	Pd7	Pd4	Si4	Pd3	-84.37(3)
Pd7	Pd4	Si4	Pd5	75.15(4)	Pd7	Pd4	Si4	Pd6	41.31(6)
Pd7	Pd4	Si4	Pd7	0.000(13)	Pd7	Pd4	Si4	C46	-175.45(9)
Si4	Pd4	Pd7	Pd2	30.73(5)	Si4	Pd4	Pd7	Pd5	-64.27(5)
Si4	Pd4	Pd7	Si3	-122.54(5)	Si4	Pd4	Pd7	Si4	0.00(5)
Si4	Pd4	Pd7	C96	137.45(6)	Pd7	Pd4	C70	Pd3	37.6(3)
Pd7	Pd4	C70	N4	-151.7(11)	C70	Pd4	Pd7	Pd2	-65.6(3)
C70	Pd4	Pd7	Pd5	-160.6(3)	C70	Pd4	Pd7	Si3	141.2(3)
C70	Pd4	Pd7	Si4	-96.3(3)	C70	Pd4	Pd7	C96	41.1(3)
C75	Pd4	Pd7	Pd2	154.2(3)	C75	Pd4	Pd7	Pd5	59.2(3)
C75	Pd4	Pd7	Si3	0.9(3)	C75	Pd4	Pd7	Si4	123.5(3)
C75	Pd4	Pd7	C96	-99.1(3)	Si4	Pd4	C70	Pd3	-19.2(3)

Si4	Pd4	C70	N4	151.5(11)	C70	Pd4	Si4	Pd2	50.7(3)
C70	Pd4	Si4	Pd3	17.2(3)	C70	Pd4	Si4	Pd5	176.7(3)
C70	Pd4	Si4	Pd6	142.9(3)	C70	Pd4	Si4	Pd7	101.6(3)
C70	Pd4	Si4	C46	-73.9(3)	C75	Pd4	Si4	Pd2	-168.4(4)
C75	Pd4	Si4	Pd3	158.2(4)	C75	Pd4	Si4	Pd5	-42.3(4)
C75	Pd4	Si4	Pd6	-76.1(4)	C75	Pd4	Si4	Pd7	-117.4(4)
C75	Pd4	Si4	C46	67.1(4)	C75	Pd4	C70	Pd3	-172.0(3)
C75	Pd4	C70	N4	-1.3(13)	Pd4	Pd5	Pd6	Pd2	-2.16(3)
Pd4	Pd5	Pd6	Si1	-10.99(7)	Pd4	Pd5	Pd6	Si4	-23.278(18)
Pd4	Pd5	Pd6	C88	165.50(2)	Pd4	Pd5	Pd7	Pd2	-95.67(2)
Pd4	Pd5	Pd7	Pd4	0.000(14)	Pd4	Pd5	Pd7	Si3	107.10(2)
Pd4	Pd5	Pd7	Si4	-68.545(18)	Pd4	Pd5	Pd7	C96	138.07(7)
Pd4	Pd5	Si3	Pd7	-56.12(3)	Pd4	Pd5	Si3	C25	133.02(5)
Pd4	Pd5	Si3	C31	-147.21(10)	Pd4	Pd5	Si3	C37	47.32(9)
Pd4	Pd5	Si4	Pd2	120.80(12)	Pd4	Pd5	Si4	Pd3	24.82(6)
Pd4	Pd5	Si4	Pd4	0.000(11)	Pd4	Pd5	Si4	Pd6	153.63(5)
Pd4	Pd5	Si4	Pd7	73.32(4)	Pd4	Pd5	Si4	C46	-98.61(8)
Pd4	Pd5	C25	Si3	-51.84(19)	Pd4	Pd5	C25	C26	70.9(3)
Pd4	Pd5	C25	C30	-172.5(2)	Pd6	Pd5	Pd7	Pd2	39.145(18)
Pd6	Pd5	Pd7	Pd4	134.82(2)	Pd6	Pd5	Pd7	Si3	-118.08(2)
Pd6	Pd5	Pd7	Si4	66.274(17)	Pd6	Pd5	Pd7	C96	-87.11(7)
Pd7	Pd5	Pd6	Pd2	-42.683(19)	Pd7	Pd5	Pd6	Si1	-51.51(6)
Pd7	Pd5	Pd6	Si4	-63.798(16)	Pd7	Pd5	Pd6	C88	124.98(3)
Pd6	Pd5	Si3	Pd7	53.32(4)	Pd6	Pd5	Si3	C25	-117.54(4)
Pd6	Pd5	Si3	C31	-37.77(10)	Pd6	Pd5	Si3	C37	156.76(9)
Si3	Pd5	Pd6	Pd2	-86.08(5)	Si3	Pd5	Pd6	Si1	-94.91(7)
Si3	Pd5	Pd6	Si4	-107.20(4)	Si3	Pd5	Pd6	C88	81.58(5)
Pd6	Pd5	Si4	Pd2	-32.83(8)	Pd6	Pd5	Si4	Pd3	-128.81(10)
Pd6	Pd5	Si4	Pd4	-153.63(5)	Pd6	Pd5	Si4	Pd6	0.000(12)
Pd6	Pd5	Si4	Pd7	-80.31(3)	Pd6	Pd5	Si4	C46	107.76(10)
Si4	Pd5	Pd6	Pd2	21.12(5)	Si4	Pd5	Pd6	Si1	12.29(7)
Si4	Pd5	Pd6	Si4	-0.00(5)	Si4	Pd5	Pd6	C88	-171.22(6)
Pd6	Pd5	C25	Si3	72.2(2)	Pd6	Pd5	C25	C26	-165.0(2)
Pd6	Pd5	C25	C30	-48.5(3)	C25	Pd5	Pd6	Pd2	-127.83(17)
C25	Pd5	Pd6	Si1	-136.65(17)	C25	Pd5	Pd6	Si4	-148.94(17)
C25	Pd5	Pd6	C88	39.83(17)	C83	Pd5	Pd6	Pd2	128.6(2)
C83	Pd5	Pd6	Si1	119.7(2)	C83	Pd5	Pd6	Si4	107.4(2)
C83	Pd5	Pd6	C88	-63.8(2)	Pd7	Pd5	Si3	Pd7	0.000(13)
Pd7	Pd5	Si3	C25	-170.86(7)	Pd7	Pd5	Si3	C31	-91.08(10)

Pd7	Pd5	Si3	C37	103.44(11)	Si3	Pd5	Pd7	Pd2	157.23(5)
Si3	Pd5	Pd7	Pd4	-107.10(5)	Si3	Pd5	Pd7	Si3	0.00(5)
Si3	Pd5	Pd7	Si4	-175.64(5)	Si3	Pd5	Pd7	C96	30.97(8)
Pd7	Pd5	Si4	Pd2	47.48(8)	Pd7	Pd5	Si4	Pd3	-48.50(7)
Pd7	Pd5	Si4	Pd4	-73.32(4)	Pd7	Pd5	Si4	Pd6	80.31(4)
Pd7	Pd5	Si4	Pd7	0.000(14)	Pd7	Pd5	Si4	C46	-171.93(11)
Si4	Pd5	Pd7	Pd2	-27.13(5)	Si4	Pd5	Pd7	Pd4	68.54(5)
Si4	Pd5	Pd7	Si3	175.64(6)	Si4	Pd5	Pd7	Si4	-0.00(5)
Si4	Pd5	Pd7	C96	-153.38(9)	Pd7	Pd5	C25	Si3	7.12(17)
Pd7	Pd5	C25	C26	129.9(2)	Pd7	Pd5	C25	C30	-113.6(3)
C25	Pd5	Pd7	Pd2	150.84(16)	C25	Pd5	Pd7	Pd4	-113.49(16)
C25	Pd5	Pd7	Si3	-6.39(16)	C25	Pd5	Pd7	Si4	177.97(16)
C25	Pd5	Pd7	C96	24.58(18)	C83	Pd5	Pd7	Pd2	23.8(4)
C83	Pd5	Pd7	Pd4	119.4(4)	C83	Pd5	Pd7	Si3	-133.5(4)
C83	Pd5	Pd7	Si4	50.9(4)	C83	Pd5	Pd7	C96	-102.5(4)
Si3	Pd5	Si4	Pd2	51.01(12)	Si3	Pd5	Si4	Pd3	-44.97(10)
Si3	Pd5	Si4	Pd4	-69.79(5)	Si3	Pd5	Si4	Pd6	83.84(5)
Si3	Pd5	Si4	Pd7	3.53(6)	Si3	Pd5	Si4	C46	-168.40(8)
Si4	Pd5	Si3	Pd7	-3.75(6)	Si4	Pd5	Si3	C25	-174.61(6)
Si4	Pd5	Si3	C31	-94.84(11)	Si4	Pd5	Si3	C37	99.69(10)
Si3	Pd5	C25	Si3	0.00(6)	Si3	Pd5	C25	C26	122.8(4)
Si3	Pd5	C25	C30	-120.7(4)	C25	Pd5	Si3	Pd7	170.9(2)
C25	Pd5	Si3	C25	0.0(2)	C25	Pd5	Si3	C31	79.8(2)
C25	Pd5	Si3	C37	-85.7(2)	C83	Pd5	Si3	Pd7	133.6(3)
C83	Pd5	Si3	C25	-37.2(3)	C83	Pd5	Si3	C31	42.6(3)
C83	Pd5	Si3	C37	-122.9(3)	Si4	Pd5	C25	Si3	10.5(4)
Si4	Pd5	C25	C26	133.3(2)	Si4	Pd5	C25	C30	-110.2(4)
C25	Pd5	Si4	Pd2	43.4(4)	C25	Pd5	Si4	Pd3	-52.6(4)
C25	Pd5	Si4	Pd4	-77.4(3)	C25	Pd5	Si4	Pd6	76.2(3)
C25	Pd5	Si4	Pd7	-4.1(3)	C25	Pd5	Si4	C46	-176.0(3)
C83	Pd5	Si4	Pd2	-106.0(2)	C83	Pd5	Si4	Pd3	158.1(2)
C83	Pd5	Si4	Pd4	133.2(2)	C83	Pd5	Si4	Pd6	-73.1(2)
C83	Pd5	Si4	Pd7	-153.4(2)	C83	Pd5	Si4	C46	34.6(2)
C83	Pd5	C25	Si3	159.0(2)	C83	Pd5	C25	C26	-78.2(3)
C83	Pd5	C25	C30	38.3(4)	Pd2	Pd6	Si1	Pd1	0.43(9)
Pd2	Pd6	Si1	Pd2	-0.000(15)	Pd2	Pd6	Si1	C1	-127.68(9)
Pd2	Pd6	Si1	C7	120.76(9)	Pd2	Pd6	Si4	Pd2	-0.000(15)
Pd2	Pd6	Si4	Pd3	-26.57(7)	Pd2	Pd6	Si4	Pd4	-119.44(10)
Pd2	Pd6	Si4	Pd5	-153.60(6)	Pd2	Pd6	Si4	Pd7	-79.86(4)

Pd2	Pd6	Si4	C46	99.67(8)	Pd5	Pd6	Si1	Pd1	11.2(2)
Pd5	Pd6	Si1	Pd2	10.75(15)	Pd5	Pd6	Si1	C1	-116.93(10)
Pd5	Pd6	Si1	C7	131.50(10)	Pd5	Pd6	Si4	Pd2	153.60(6)
Pd5	Pd6	Si4	Pd3	127.03(12)	Pd5	Pd6	Si4	Pd4	34.16(5)
Pd5	Pd6	Si4	Pd5	0.000(13)	Pd5	Pd6	Si4	Pd7	73.74(4)
Pd5	Pd6	Si4	C46	-106.73(7)	Si1	Pd6	Si4	Pd2	-21.18(6)
Si1	Pd6	Si4	Pd3	-47.75(12)	Si1	Pd6	Si4	Pd4	-140.62(8)
Si1	Pd6	Si4	Pd5	-174.78(5)	Si1	Pd6	Si4	Pd7	-101.04(6)
Si1	Pd6	Si4	C46	78.50(8)	Si4	Pd6	Si1	Pd1	21.26(14)
Si4	Pd6	Si1	Pd2	20.84(6)	Si4	Pd6	Si1	C1	-106.84(8)
Si4	Pd6	Si1	C7	141.59(7)	C88	Pd6	Si1	Pd1	-165.4(2)
C88	Pd6	Si1	Pd2	-165.8(2)	C88	Pd6	Si1	C1	66.5(2)
C88	Pd6	Si1	C7	-45.1(2)	C88	Pd6	Si4	Pd2	175.9(6)
C88	Pd6	Si4	Pd3	149.3(6)	C88	Pd6	Si4	Pd4	56.4(6)
C88	Pd6	Si4	Pd5	22.3(6)	C88	Pd6	Si4	Pd7	96.0(6)
C88	Pd6	Si4	C46	-84.4(6)	Pd2	Pd7	Si3	Pd5	-53.57(10)
Pd2	Pd7	Si3	C25	-43.81(17)	Pd2	Pd7	Si3	C31	73.83(13)
Pd2	Pd7	Si3	C37	-171.59(4)	Pd2	Pd7	Si4	Pd2	0.000(13)
Pd2	Pd7	Si4	Pd3	-71.18(4)	Pd2	Pd7	Si4	Pd4	-139.36(6)
Pd2	Pd7	Si4	Pd5	144.42(7)	Pd2	Pd7	Si4	Pd6	71.37(4)
Pd4	Pd7	Si3	Pd5	57.34(3)	Pd4	Pd7	Si3	C25	67.10(10)
Pd4	Pd7	Si3	C31	-175.26(7)	Pd4	Pd7	Si3	C37	-60.67(8)
Pd4	Pd7	Si4	Pd2	139.36(6)	Pd4	Pd7	Si4	Pd3	68.19(4)
Pd4	Pd7	Si4	Pd4	0.000(12)	Pd4	Pd7	Si4	Pd5	-76.21(3)
Pd4	Pd7	Si4	Pd6	-149.27(5)	Pd5	Pd7	Si3	Pd5	0.000(12)
Pd5	Pd7	Si3	C25	9.76(8)	Pd5	Pd7	Si3	C31	127.40(9)
Pd5	Pd7	Si3	C37	-118.01(9)	Pd5	Pd7	Si4	Pd2	-144.42(7)
Pd5	Pd7	Si4	Pd3	144.40(6)	Pd5	Pd7	Si4	Pd4	76.21(3)
Pd5	Pd7	Si4	Pd5	0.000(14)	Pd5	Pd7	Si4	Pd6	-73.06(4)
Si3	Pd7	Si4	Pd2	-148.79(6)	Si3	Pd7	Si4	Pd3	140.03(6)
Si3	Pd7	Si4	Pd4	71.84(7)	Si3	Pd7	Si4	Pd5	-4.37(8)
Si3	Pd7	Si4	Pd6	-77.43(6)	Si4	Pd7	Si3	Pd5	4.01(7)
Si4	Pd7	Si3	C25	13.77(13)	Si4	Pd7	Si3	C31	131.41(8)
Si4	Pd7	Si3	C37	-114.00(9)	C96	Pd7	Si3	Pd5	-168.10(19)
C96	Pd7	Si3	C25	-158.3(2)	C96	Pd7	Si3	C31	-40.7(2)
C96	Pd7	Si3	C37	73.9(2)	C96	Pd7	Si4	Pd2	17.4(3)
C96	Pd7	Si4	Pd3	-53.7(3)	C96	Pd7	Si4	Pd4	-121.9(3)
C96	Pd7	Si4	Pd5	161.9(3)	C96	Pd7	Si4	Pd6	88.8(3)
Pd1	Si1	C1	C2	-45.5(4)	Pd1	Si1	C1	C6	140.6(3)

Pd1	Si1	C7	C8	-92.7(4)	Pd1	Si1	C7	C12	83.6(4)
Pd2	Si1	C1	C2	30.8(5)	Pd2	Si1	C1	C6	-143.1(3)
Pd2	Si1	C7	C8	-162.4(3)	Pd2	Si1	C7	C12	13.8(5)
Pd6	Si1	C1	C2	101.0(4)	Pd6	Si1	C1	C6	-72.9(4)
Pd6	Si1	C7	C8	122.9(4)	Pd6	Si1	C7	C12	-60.8(4)
C1	Si1	C7	C8	20.1(5)	C1	Si1	C7	C12	-163.7(4)
C7	Si1	C1	C2	-151.9(4)	C7	Si1	C1	C6	34.2(5)
Pd1	Si2	C13	C14	99.5(4)	Pd1	Si2	C13	C18	-79.1(4)
Pd1	Si2	C19	C20	122.9(4)	Pd1	Si2	C19	C24	-59.2(4)
Pd2	Si2	C13	C14	28.4(5)	Pd2	Si2	C13	C18	-150.2(3)
Pd2	Si2	C19	C20	-157.4(3)	Pd2	Si2	C19	C24	20.4(5)
Pd3	Si2	C13	C14	-39.6(4)	Pd3	Si2	C13	C18	141.8(4)
Pd3	Si2	C19	C20	-91.3(4)	Pd3	Si2	C19	C24	86.5(4)
C13	Si2	C19	C20	16.2(5)	C13	Si2	C19	C24	-166.0(4)
C19	Si2	C13	C14	-145.8(4)	C19	Si2	C13	C18	35.7(5)
Pd5	Si3	C25	Pd5	0.000(12)	Pd5	Si3	C25	C26	-73.0(5)
Pd5	Si3	C25	C30	101.7(5)	Pd5	Si3	C31	C32	31.9(6)
Pd5	Si3	C31	C36	-147.1(3)	Pd5	Si3	C37	C38	89.6(7)
Pd5	Si3	C37	C42	-72.9(5)	Pd5	Si3	C37	C45	-119.2(5)
Pd7	Si3	C25	Pd5	-10.3(3)	Pd7	Si3	C25	C26	-83.3(5)
Pd7	Si3	C25	C30	91.4(5)	Pd7	Si3	C31	C32	-40.1(5)
Pd7	Si3	C31	C36	140.9(4)	Pd7	Si3	C37	C38	165.9(5)
Pd7	Si3	C37	C42	3.3(6)	Pd7	Si3	C37	C45	-42.9(7)
C25	Si3	C31	C32	92.6(5)	C25	Si3	C31	C36	-86.4(5)
C31	Si3	C25	Pd5	-129.8(3)	C31	Si3	C25	C26	157.2(5)
C31	Si3	C25	C30	-28.1(6)	C25	Si3	C37	C38	27.1(7)
C25	Si3	C37	C42	-135.5(5)	C25	Si3	C37	C45	178.3(5)
C37	Si3	C25	Pd5	121.7(3)	C37	Si3	C25	C26	48.8(6)
C37	Si3	C25	C30	-136.6(6)	C31	Si3	C37	C38	-78.9(6)
C31	Si3	C37	C42	118.5(6)	C31	Si3	C37	C45	72.3(6)
C37	Si3	C31	C32	-160.6(5)	C37	Si3	C31	C36	20.4(5)
Pd2	Si4	C46	C47	-101.8(4)	Pd2	Si4	C46	C51	69.3(4)
Pd3	Si4	C46	C47	-32.0(4)	Pd3	Si4	C46	C51	139.1(3)
Pd4	Si4	C46	C47	33.9(4)	Pd4	Si4	C46	C51	-155.0(3)
Pd5	Si4	C46	C47	108.6(4)	Pd5	Si4	C46	C51	-80.3(4)
Pd6	Si4	C46	C47	-175.2(3)	Pd6	Si4	C46	C51	-4.1(4)
C70	N4	C71	C72	166.5(10)	C70	N4	C71	C73	-74.2(13)
C70	N4	C71	C74	47.1(13)	C71	N4	C70	Pd3	-178.8(8)
C71	N4	C70	Pd4	14(2)	Si1	C1	C2	C3	-173.8(4)

Si1	C1	C6	C5	175.0(4)	C2	C1	C6	C5	1.0(9)
C6	C1	C2	C3	0.5(9)	C1	C2	C3	C4	-1.5(11)
C2	C3	C4	C5	1.1(13)	C3	C4	C5	C6	0.4(13)
C4	C5	C6	C1	-1.4(11)	Si1	C7	C8	C9	178.5(4)
Si1	C7	C12	C11	-177.0(4)	C8	C7	C12	C11	-0.4(9)
C12	C7	C8	C9	2.1(9)	C7	C8	C9	C10	-2.0(11)
C8	C9	C10	C11	0.1(11)	C9	C10	C11	C12	1.5(12)
C10	C11	C12	C7	-1.3(12)	Si2	C13	C14	C15	-179.5(4)
Si2	C13	C18	C17	-179.6(4)	C14	C13	C18	C17	1.8(9)
C18	C13	C14	C15	-0.8(9)	C13	C14	C15	C16	-0.7(10)
C14	C15	C16	C17	1.3(10)	C15	C16	C17	C18	-0.3(9)
C16	C17	C18	C13	-1.3(9)	Si2	C19	C20	C21	-180.0(4)
Si2	C19	C24	C23	-178.6(4)	C20	C19	C24	C23	-0.6(8)
C24	C19	C20	C21	2.1(8)	C19	C20	C21	C22	-1.8(10)
C20	C21	C22	C23	-0.1(10)	C21	C22	C23	C24	1.7(11)
C22	C23	C24	C19	-1.3(10)	Pd5	C25	C26	C27	110.1(6)
Pd5	C25	C30	C29	-95.5(6)	Si3	C25	C26	C27	179.0(5)
Si3	C25	C30	C29	-179.4(5)	C26	C25	C30	C29	-4.6(11)
C30	C25	C26	C27	4.1(11)	C25	C26	C27	C28	-1.7(13)
C26	C27	C28	C29	-0.3(14)	C27	C28	C29	C30	-0.2(14)
C28	C29	C30	C25	2.8(13)	Si3	C31	C32	C33	-179.8(4)
Si3	C31	C36	C35	-179.9(4)	C32	C31	C36	C35	1.1(10)
C36	C31	C32	C33	-0.8(9)	C31	C32	C33	C34	-0.1(11)
C32	C33	C34	C35	0.7(12)	C33	C34	C35	C36	-0.4(13)
C34	C35	C36	C31	-0.5(13)	Si3	C37	C38	C39	175.6(5)
Si3	C37	C42	C41	176.4(8)	Si3	C37	C42	C44	-137.7(6)
Si3	C37	C42	C45	-93.9(10)	Si3	C37	C45	C41	149.1(6)
Si3	C37	C45	C42	109.7(9)	Si3	C37	C45	C44	-171.7(10)
C38	C37	C42	C41	12.2(16)	C38	C37	C42	C44	58.1(9)
C38	C37	C42	C45	101.9(10)	C42	C37	C38	C39	-20.4(13)
C38	C37	C45	C41	-57.2(11)	C38	C37	C45	C42	-96.6(11)
C38	C37	C45	C44	-18.0(18)	C45	C37	C38	C39	24.0(13)
C42	C37	C45	C41	39.4(11)	C42	C37	C45	C42	0.0(10)
C42	C37	C45	C44	78.6(16)	C45	C37	C42	C41	-89.7(19)
C45	C37	C42	C44	-43.9(12)	C45	C37	C42	C45	0.0(10)
C37	C38	C39	C40	21.7(14)	C37	C38	C39	C43	-26.6(14)
C38	C39	C40	C41	-13.2(19)	C38	C39	C40	C43	-96.2(13)
C38	C39	C40	C44	-54.7(14)	C38	C39	C43	C40	106.9(12)
C38	C39	C43	C41	64.1(12)	C38	C39	C43	C44	24(2)

C40	C39	C43	C40	-0.0(11)	C40	C39	C43	C41	-42.9(13)
C40	C39	C43	C44	-83(2)	C43	C39	C40	C41	83.1(16)
C43	C39	C40	C43	-0.0(11)	C43	C39	C40	C44	41.5(12)
C39	C40	C41	C42	6(2)	C39	C40	C41	C43	-71.7(14)
C39	C40	C41	C44	-70.3(16)	C39	C40	C41	C45	-27.2(19)
C39	C40	C43	C39	0.0(4)	C39	C40	C43	C41	119.6(12)
C39	C40	C43	C44	118.4(13)	C39	C40	C44	C41	123.7(15)
C39	C40	C44	C42	80.0(12)	C39	C40	C44	C43	-58.2(11)
C39	C40	C44	C45	54.8(18)	C41	C40	C43	C39	-119.6(13)
C41	C40	C43	C41	-0.0(7)	C41	C40	C43	C44	-1.3(14)
C43	C40	C41	C42	77.4(19)	C43	C40	C41	C43	-0.0(10)
C43	C40	C41	C44	1.4(15)	C43	C40	C41	C45	44.5(17)
C41	C40	C44	C41	0.0(10)	C41	C40	C44	C42	-43.7(12)
C41	C40	C44	C43	178.1(19)	C41	C40	C44	C45	-68.9(17)
C44	C40	C41	C42	76.0(15)	C44	C40	C41	C43	-1.4(14)
C44	C40	C41	C44	0.0(8)	C44	C40	C41	C45	43.1(10)
C43	C40	C44	C41	-178(2)	C43	C40	C44	C42	138.2(18)
C43	C40	C44	C43	-0.0(13)	C43	C40	C44	C45	113(2)
C44	C40	C43	C39	-118.4(14)	C44	C40	C43	C41	1.3(15)
C44	C40	C43	C44	-0.0(8)	C40	C41	C42	C37	-6(2)
C40	C41	C42	C44	-79.6(17)	C40	C41	C42	C45	-78.0(18)
C40	C41	C43	C39	51.7(14)	C40	C41	C43	C40	-0.0(12)
C40	C41	C43	C44	178(2)	C40	C41	C44	C40	-0.0(7)
C40	C41	C44	C42	120.6(12)	C40	C41	C44	C43	-1.1(11)
C40	C41	C44	C45	119.4(12)	C40	C41	C45	C37	61.3(16)
C40	C41	C45	C42	115.7(15)	C40	C41	C45	C44	-66.5(14)
C42	C41	C43	C39	-65.7(12)	C42	C41	C43	C40	-117.4(14)
C42	C41	C43	C44	60.8(11)	C43	C41	C42	C37	31.1(17)
C43	C41	C42	C44	-42.7(8)	C43	C41	C42	C45	-41.0(14)
C42	C41	C44	C40	-120.6(12)	C42	C41	C44	C42	-0.0(6)
C42	C41	C44	C43	-121.6(11)	C42	C41	C44	C45	-1.1(10)
C44	C41	C42	C37	73.8(16)	C44	C41	C42	C44	-0.0(8)
C44	C41	C42	C45	1.6(14)	C42	C41	C45	C37	-54.3(14)
C42	C41	C45	C42	0.0(11)	C42	C41	C45	C44	177.9(19)
C45	C41	C42	C37	72.2(18)	C45	C41	C42	C44	-1.6(14)
C45	C41	C42	C45	0.0(9)	C43	C41	C44	C40	1.1(11)
C43	C41	C44	C42	121.6(12)	C43	C41	C44	C43	0.0(8)
C43	C41	C44	C45	120.5(14)	C44	C41	C43	C39	-126.5(16)
C44	C41	C43	C40	-178.2(19)	C44	C41	C43	C44	0.0(11)

C43	C41	C45	C37	86.1(11)	C43	C41	C45	C42	140.4(13)
C43	C41	C45	C44	-41.7(8)	C45	C41	C43	C39	-86.1(9)
C45	C41	C43	C40	-137.8(13)	C45	C41	C43	C44	40.4(7)
C44	C41	C45	C37	127.8(17)	C44	C41	C45	C42	-177.9(19)
C44	C41	C45	C44	-0.0(11)	C45	C41	C44	C40	-119.4(12)
C45	C41	C44	C42	1.1(10)	C45	C41	C44	C43	-120.5(13)
C45	C41	C44	C45	-0.0(6)	C37	C42	C44	C40	-83.4(9)
C37	C42	C44	C41	-124.6(10)	C37	C42	C44	C43	-59.0(13)
C37	C42	C44	C45	53.4(9)	C37	C42	C45	C37	0.0(4)
C37	C42	C45	C41	-121.2(11)	C37	C42	C45	C44	-122.6(10)
C41	C42	C44	C40	41.2(11)	C41	C42	C44	C41	0.0(10)
C41	C42	C44	C43	65.6(14)	C41	C42	C44	C45	178.0(17)
C41	C42	C45	C37	121.2(13)	C41	C42	C45	C41	0.0(7)
C41	C42	C45	C44	-1.5(13)	C44	C42	C45	C37	122.6(12)
C44	C42	C45	C41	1.5(13)	C44	C42	C45	C44	-0.0(7)
C45	C42	C44	C40	-136.8(16)	C45	C42	C44	C41	-178.0(18)
C45	C42	C44	C43	-112.4(18)	C45	C42	C44	C45	0.0(11)
C39	C43	C44	C40	64.2(15)	C39	C43	C44	C41	65.7(17)
C39	C43	C44	C42	19(2)	C39	C43	C44	C45	-20(3)
C40	C43	C44	C40	0.0(9)	C40	C43	C44	C41	1.4(16)
C40	C43	C44	C42	-45.6(19)	C40	C43	C44	C45	-84(2)
C41	C43	C44	C40	-1.4(15)	C41	C43	C44	C41	0.0(8)
C41	C43	C44	C42	-47.0(11)	C41	C43	C44	C45	-85.3(18)
C40	C44	C45	C37	-20(2)	C40	C44	C45	C41	45.4(10)
C40	C44	C45	C42	47.0(17)	C41	C44	C45	C37	-65.8(19)
C41	C44	C45	C41	-0.0(8)	C41	C44	C45	C42	1.6(14)
C42	C44	C45	C37	-67.4(14)	C42	C44	C45	C41	-1.6(14)
C42	C44	C45	C42	0.0(8)	C43	C44	C45	C37	17(3)
C43	C44	C45	C41	83.2(17)	C43	C44	C45	C42	85(2)
Si4	C46	C47	C48	170.9(3)	Si4	C46	C51	C50	-171.7(4)
C47	C46	C51	C50	0.2(8)	C51	C46	C47	C48	-0.5(8)
C46	C47	C48	C49	0.8(8)	C47	C48	C49	C50	-0.8(9)
C48	C49	C50	C51	0.5(10)	C49	C50	C51	C46	-0.1(10)
N1	C53	C54	C58	99.1(11)	N1	C53	C54	C59	-84.6(13)
N1	C53	C55	C57	-105.5(11)	N1	C53	C56	C57	109.2(7)
N1	C53	C56	C58	-106.2(7)	N1	C53	C57	C55	88.6(19)
N1	C53	C57	C56	-99.5(9)	N1	C53	C58	C54	-98.8(13)
N1	C53	C58	C56	98.7(9)	N1	C53	C59	C54	107.4(15)
C54	C53	C55	C57	131.2(14)	C55	C53	C54	C58	-139.7(13)

C55	C53	C54	C59	36.7(18)	C54	C53	C56	C57	-131.6(12)
C54	C53	C56	C58	13.0(12)	C56	C53	C54	C58	-17.1(15)
C56	C53	C54	C59	159.3(13)	C54	C53	C57	C55	-73(3)
C54	C53	C57	C56	99.0(19)	C57	C53	C54	C58	-99(2)
C57	C53	C54	C59	77(3)	C54	C53	C58	C54	-0.0(14)
C54	C53	C58	C56	-162(2)	C58	C53	C54	C58	-0.0(17)
C58	C53	C54	C59	176(3)	C54	C53	C59	C54	0.0(15)
C59	C53	C54	C58	-176(3)	C59	C53	C54	C59	0(2)
C55	C53	C56	C57	-5.2(9)	C55	C53	C56	C58	139.4(10)
C56	C53	C55	C57	8.0(14)	C55	C53	C57	C55	-0.0(11)
C55	C53	C57	C56	172(2)	C57	C53	C55	C57	0(2)
C55	C53	C58	C54	72(3)	C55	C53	C58	C56	-91(2)
C58	C53	C55	C57	84(3)	C55	C53	C59	C54	-146.9(19)
C59	C53	C55	C57	153.8(16)	C56	C53	C57	C55	-172(2)
C56	C53	C57	C56	-0.0(8)	C57	C53	C56	C57	-0.0(14)
C57	C53	C56	C58	144.6(16)	C56	C53	C58	C54	162.5(19)
C56	C53	C58	C56	-0.0(8)	C58	C53	C56	C57	-144.6(13)
C58	C53	C56	C58	-0.0(12)	C56	C53	C59	C54	-36(4)
C59	C53	C56	C57	-108(3)	C59	C53	C56	C58	36(3)
C57	C53	C58	C54	120(2)	C57	C53	C58	C56	-42(2)
C58	C53	C57	C55	-131.2(19)	C58	C53	C57	C56	40.7(18)
C57	C53	C59	C54	-129(2)	C59	C53	C57	C55	-29(3)
C59	C53	C57	C56	142.8(15)	C58	C53	C59	C54	-2.6(19)
C59	C53	C58	C54	2.4(17)	C59	C53	C58	C56	-160.1(15)
C53	C54	C58	C53	-0.0(4)	C53	C54	C58	C56	18(2)
C53	C54	C59	C53	0.0(4)	C58	C54	C59	C53	6(5)
C59	C54	C58	C53	-6(5)	C59	C54	C58	C56	12(7)
C53	C55	C57	C53	0.0(3)	C53	C55	C57	C56	-11(3)
C53	C56	C57	C53	0.0(4)	C53	C56	C57	C55	12(4)
C53	C56	C58	C53	-0.0(4)	C53	C56	C58	C54	-19.2(19)
C57	C56	C58	C53	26.7(15)	C57	C56	C58	C54	7(3)
C58	C56	C57	C53	-28.8(15)	C58	C56	C57	C55	-16(5)
N5	C76	C77	C81	-85.6(12)	N5	C76	C77	C82	115.0(9)
N5	C76	C78	C82	-125.0(14)	N5	C76	C81	C77	104.6(12)
N5	C76	C82	C77	-106.2(11)	N5	C76	C82	C78	63(4)
C77	C76	C78	C82	-11.4(15)	C78	C76	C77	C81	164.1(10)
C78	C76	C77	C82	4.6(6)	C79	C76	C77	C81	39.6(15)
C79	C76	C77	C82	-119.8(11)	C80	C76	C77	C81	45.5(16)
C80	C76	C77	C82	-114.0(12)	C77	C76	C81	C77	0.0(11)

C81	C76	C77	C81	-0.0(12)	C81	C76	C77	C82	-159.5(16)
C77	C76	C82	C77	0.0(7)	C77	C76	C82	C78	169(3)
C82	C76	C77	C81	159.5(18)	C82	C76	C77	C82	-0.0(14)
C79	C76	C78	C82	116.2(16)	C80	C76	C78	C82	126.9(14)
C78	C76	C81	C77	-23(2)	C81	C76	C78	C82	2(2)
C78	C76	C82	C77	-169(4)	C78	C76	C82	C78	-0.0(13)
C82	C76	C78	C82	0(3)	C79	C76	C81	C77	-145.4(13)
C79	C76	C82	C77	116.1(15)	C79	C76	C82	C78	-75(4)
C80	C76	C81	C77	-146.9(12)	C80	C76	C82	C77	131.8(12)
C80	C76	C82	C78	-59(4)	C81	C76	C82	C77	13.0(13)
C81	C76	C82	C78	-178(3)	C82	C76	C81	C77	-22(2)
C76	C77	C81	C76	0.0(3)	C76	C77	C82	C76	-0.0(5)
C76	C77	C82	C78	-31(10)	C81	C77	C82	C76	-28(3)
C81	C77	C82	C78	-58(12)	C82	C77	C81	C76	19.7(18)
C76	C78	C82	C76	-0.0(4)	C76	C78	C82	C77	25(9)
N7	C89	C90	C94	90.2(11)	N7	C89	C90	C95	-88.1(16)
N7	C89	C91	C93	-101.5(6)	N7	C89	C92	C93	104.2(8)
N7	C89	C92	C94	-98.8(8)	N7	C89	C93	C91	100.5(16)
N7	C89	C93	C92	-94.5(17)	N7	C89	C94	C90	-105.0(18)
N7	C89	C94	C92	100.1(11)	N7	C89	C95	C90	103.8(16)
C90	C89	C91	C93	124.8(11)	C91	C89	C90	C94	-136.5(11)
C91	C89	C90	C95	45.2(18)	C90	C89	C92	C93	-139.6(13)
C90	C89	C92	C94	17.4(12)	C92	C89	C90	C94	-22.1(14)
C92	C89	C90	C95	159.6(15)	C90	C89	C93	C91	-101(3)
C90	C89	C93	C92	64(4)	C93	C89	C90	C94	-68(4)
C93	C89	C90	C95	114(3)	C90	C89	C94	C90	0.0(13)
C90	C89	C94	C92	-155(3)	C94	C89	C90	C94	0(3)
C94	C89	C90	C95	-178(3)	C90	C89	C95	C90	-0.0(16)
C95	C89	C90	C94	178(3)	C95	C89	C90	C95	0.0(19)
C91	C89	C92	C93	-12.4(8)	C91	C89	C92	C94	144.6(8)
C92	C89	C91	C93	12.1(8)	C91	C89	C93	C91	0.0(6)
C91	C89	C93	C92	165(3)	C93	C89	C91	C93	0(2)
C91	C89	C94	C90	82(3)	C91	C89	C94	C92	-73(3)
C94	C89	C91	C93	71(3)	C91	C89	C95	C90	-142.8(16)
C95	C89	C91	C93	148.3(11)	C92	C89	C93	C91	-165(3)
C92	C89	C93	C92	0.0(7)	C93	C89	C92	C93	0(2)
C93	C89	C92	C94	157(3)	C92	C89	C94	C90	155(3)
C92	C89	C94	C92	0.0(8)	C94	C89	C92	C93	-157(2)
C94	C89	C92	C94	0(2)	C92	C89	C95	C90	-28(3)

C95	C89	C92	C93	-124.3(19)	C95	C89	C92	C94	33(2)
C93	C89	C94	C90	136(3)	C93	C89	C94	C92	-19(3)
C94	C89	C93	C91	-144(2)	C94	C89	C93	C92	21(3)
C93	C89	C95	C90	-103(4)	C95	C89	C93	C91	-51(3)
C95	C89	C93	C92	114(3)	C94	C89	C95	C90	1(2)
C95	C89	C94	C90	-0.9(18)	C95	C89	C94	C92	-155.8(18)
C89	C90	C94	C89	0.0(4)	C89	C90	C94	C92	23(2)
C89	C90	C95	C89	-0.0(4)	C89	C91	C93	C89	0.0(4)
C89	C91	C93	C92	-22(5)	C89	C92	C93	C89	0.0(4)
C89	C92	C93	C91	22(4)	C89	C92	C94	C89	0.0(4)
C89	C92	C94	C90	-23(2)	C93	C92	C94	C89	21(3)
C93	C92	C94	C90	-3(5)	C94	C92	C93	C89	-22(3)
C94	C92	C93	C91	-0(7)					

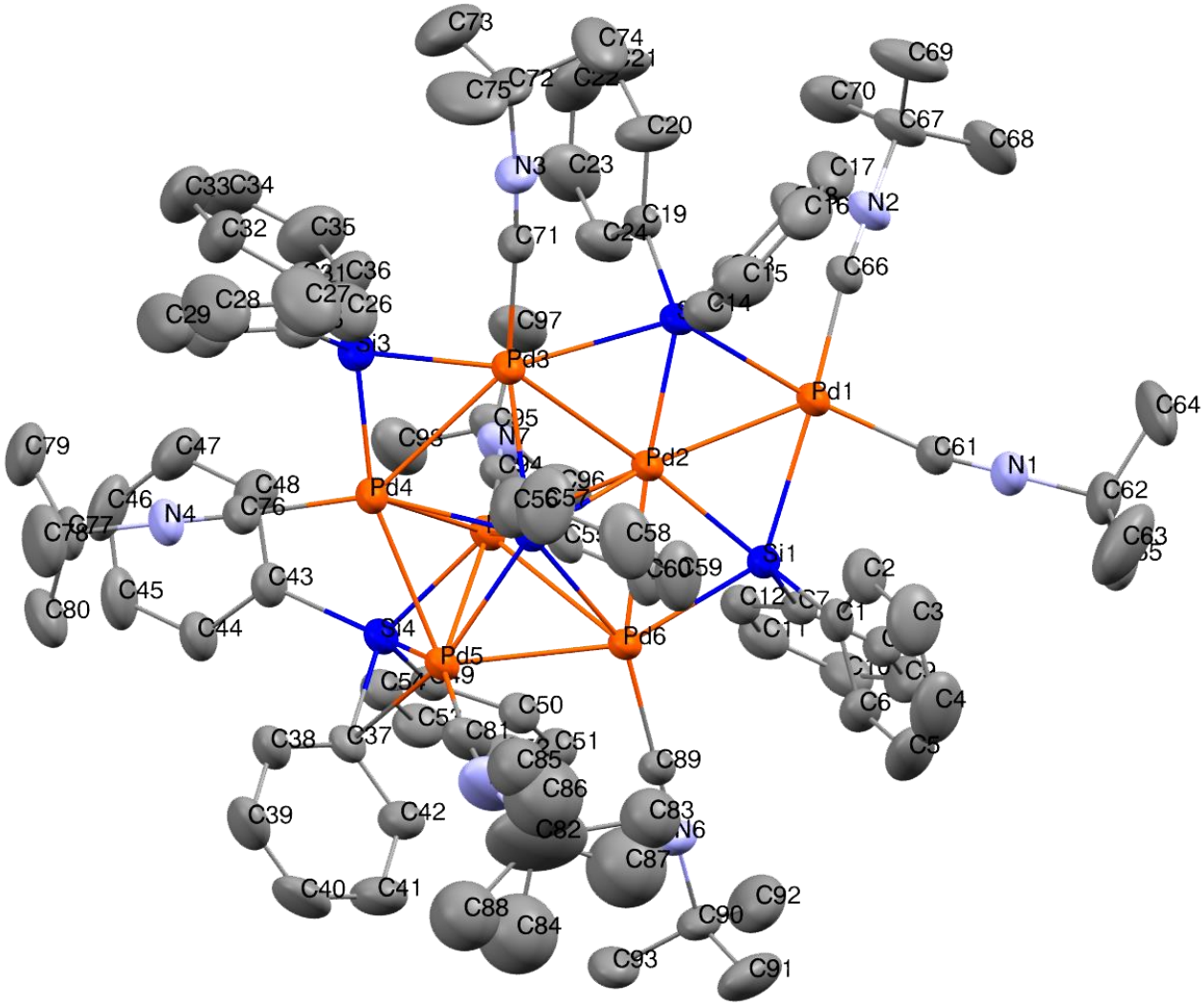


Figure S11. ORTEP drawing of **6** (50% probability of the thermal ellipsoids). Hydrogen atoms were omitted for clarity. One ^{t}Bu group was found to be disordered. The site occupancy factor for the carbons derived from three methyl groups on this ^{t}Bu group was defined as follows: 0.4 for C83, C84 and C85, 0.6 for C86, C87 and C88, respectively. One toluene molecule is included in the unit cell, and a methyl group of toluene was found to be disordered. The site occupancy factor for a methyl group was defined to be 0.5. (Solvated toluene molecule was omitted for clarity)

Table S13-1. Crystal data and structure refinement for **6**.

Empirical Formula	$C_{95}H_{113}N_7Pd_7Si_5$
Formula Weight	2238.21
Crystal Color, Habit	black, platelet
Crystal Dimensions	0.100 X 0.100 X 0.010 mm
Crystal System	triclinic
Lattice Type	Primitive
Lattice Parameters	a = 14.0947(2) Å b = 16.6487(3) Å c = 23.8355(3) Å α = 88.2080(13) ° β = 81.2880(13) ° γ = 81.8700(13) ° V = 5472.83(15) Å^3
Space Group	P-1 (#2)
Z value	2
D_{calc}	1.358 g/cm^3
F_{000}	2248.00
μ(MoKα)	12.203 cm^{-1}
Diffractometer	Saturn724
Radiation	MoKα (λ = 0.71075 Å) graphite monochromated
Temperature	-160.0°C
Detector Aperture	72.8 x 72.8 mm
Data Images	1440 exposures
ω oscillation Range (χ=45.0, ϕ=0.0)	-70.0 - 110.0°
Exposure Rate	48.0 sec./°
Detector Swing Angle	20.00°
ω oscillation Range (χ=45.0, ϕ=90.0)	-70.0 - 110.0°
Exposure Rate	48.0 sec./°
Detector Swing Angle	20.00°
ω oscillation Range (χ=45.0, ϕ=180.0)	-70.0 - 110.0°
Exposure Rate	48.0 sec./°
Detector Swing Angle	20.00°
ω oscillation Range (χ=45.0, ϕ=270.0)	-70.0 - 110.0°
Exposure Rate	48.0 sec./°
Detector Swing Angle	20.00°
Detector Position	45.00 mm
Pixel Size	0.035 mm

$2\theta_{max}$	62.5°
No. of Reflections Measured	Total: 105168
	Unique: 32072 (R_{int} = 0.0332)
Corrections	Lorentz-polarization
	Absorption
	(trans. factors: 0.943 - 0.988)
Structure Solution	Direct Methods (SHELXT Version 2014/5)
Refinement	Full-matrix least-squares on F^2
Function Minimized	Σ w $(Fo^2 - Fc^2)^2$
Least Squares Weights	$w = 1/ [\sigma^2(Fo^2) + (0.0481 \cdot P)^2$
	$+ 2.8375 \cdot P]$
	where $P = (Max(Fo^2,0) + 2Fc^2)/3$
$2\theta_{max}$ cutoff	62.4°
Anomalous Dispersion	All non-hydrogen atoms
No. Observations (All reflections)	32072
No. Variables	1040
Reflection/Parameter Ratio	30.84
Residuals: R1 (I>2.00σ(I))	0.0365
Residuals: R (All reflections)	0.0620
Residuals: wR2 (All reflections)	0.0954
Goodness of Fit Indicator	0.983
Max Shift/Error in Final Cycle	0.002
Maximum peak in Final Diff. Map	1.00 $e^-/Å^3$
Minimum peak in Final Diff. Map	-0.54 $e^-/Å^3$

Table S13-2. Atomic coordinates and B_{iso}/B_{eq}

atom	x	y	z	B_{eq}	occ
Pd1	0.71398(2)	0.42159(2)	0.37235(2)	2.395(4)	1
Pd2	0.71104(2)	0.31453(2)	0.28800(2)	2.143(4)	1
Pd3	0.73274(2)	0.14706(2)	0.29983(2)	2.452(4)	1
Pd4	0.68226(2)	0.10999(2)	0.19516(2)	2.580(4)	1
Pd5	0.69597(2)	0.23796(2)	0.12012(2)	2.278(4)	1
Pd6	0.70963(2)	0.37567(2)	0.18232(2)	2.288(4)	1
Pd7	0.57868(2)	0.26266(2)	0.22033(2)	2.261(4)	1
Si1	0.72223(6)	0.44925(5)	0.26676(3)	2.207(13)	1
Si2	0.72714(6)	0.26822(5)	0.37631(3)	2.395(13)	1
Si3	0.70397(7)	0.02482(5)	0.26818(4)	3.042(15)	1
Si4	0.50599(6)	0.24825(5)	0.14074(3)	2.421(13)	1
Si5	0.75657(5)	0.23050(5)	0.21037(3)	2.108(12)	1
N1	0.7682(2)	0.59627(17)	0.38137(12)	3.64(5)	1
N2	0.6386(2)	0.41299(18)	0.50259(11)	3.43(5)	1
N3	0.7934(2)	0.04420(17)	0.40241(13)	3.99(6)	1
N4	0.6320(2)	-0.02955(17)	0.12707(13)	3.82(6)	1
N5	0.8909(3)	0.2559(3)	0.04422(16)	6.58(10)	1
N6	0.6844(2)	0.51366(17)	0.09259(12)	3.69(5)	1
N7	0.38156(19)	0.30979(18)	0.29673(11)	3.50(5)	1
C1	0.8402(2)	0.49057(19)	0.24132(13)	2.87(5)	1
C2	0.9230(3)	0.4621(2)	0.26382(18)	4.33(7)	1
C3	1.0115(3)	0.4881(3)	0.2431(3)	6.28(12)	1
C4	1.0171(4)	0.5436(3)	0.2003(3)	6.75(13)	1
C5	0.9364(4)	0.5733(3)	0.1770(2)	5.81(11)	1
C6	0.8495(3)	0.5468(2)	0.19698(15)	3.91(7)	1
C7	0.6221(2)	0.53795(17)	0.26353(12)	2.45(5)	1
C8	0.6373(3)	0.61830(19)	0.26438(14)	3.30(6)	1
C9	0.5632(3)	0.6810(2)	0.26174(16)	4.25(7)	1
C10	0.4712(3)	0.6650(2)	0.25823(16)	4.35(8)	1
C11	0.4536(3)	0.5863(2)	0.25755(15)	3.92(7)	1
C12	0.5285(2)	0.5239(2)	0.25971(13)	3.04(5)	1
C13	0.8494(2)	0.24440(18)	0.40274(13)	2.80(5)	1
C14	0.9288(3)	0.2120(2)	0.36512(16)	3.86(7)	1
C15	1.0203(3)	0.1933(3)	0.38101(19)	5.12(9)	1
C16	1.0347(3)	0.2090(3)	0.4347(2)	5.33(10)	1
C17	0.9577(3)	0.2425(3)	0.47278(19)	4.89(9)	1
C18	0.8663(3)	0.2601(2)	0.45708(15)	4.01(7)	1

C19	0.6304(2)	0.23351(18)	0.43162(12)	2.83(5)	1
C20	0.6473(3)	0.1919(3)	0.48057(17)	5.15(9)	1
C21	0.5747(4)	0.1619(3)	0.5168(2)	6.58(12)	1
C22	0.4833(4)	0.1728(3)	0.5055(2)	6.26(11)	1
C23	0.4628(3)	0.2152(4)	0.4583(2)	6.57(12)	1
C24	0.5358(3)	0.2457(3)	0.42156(16)	4.79(8)	1
C25	0.7956(3)	-0.0685(2)	0.25397(15)	3.95(7)	1
C26	0.8878(3)	-0.0702(3)	0.2656(2)	5.92(10)	1
C27	0.9586(4)	-0.1369(4)	0.2507(3)	7.59(14)	1
C28	0.9373(5)	-0.2007(4)	0.2240(3)	7.75(15)	1
C29	0.8482(5)	-0.2011(3)	0.2120(2)	6.89(13)	1
C30	0.7767(4)	-0.1365(2)	0.22668(18)	5.12(9)	1
C31	0.5867(3)	-0.0053(2)	0.30596(15)	3.65(6)	1
C32	0.5607(4)	-0.0821(3)	0.31073(19)	5.50(9)	1
C33	0.4671(5)	-0.0952(4)	0.3349(2)	7.02(13)	1
C34	0.4021(4)	-0.0342(4)	0.3560(2)	6.66(12)	1
C35	0.4252(4)	0.0434(4)	0.3536(2)	7.11(13)	1
C36	0.5162(3)	0.0568(3)	0.3287(2)	5.65(10)	1
C37	0.5702(2)	0.24335(19)	0.06368(13)	2.82(5)	1
C38	0.6013(3)	0.1699(2)	0.03608(14)	3.76(6)	1
C39	0.6503(3)	0.1657(3)	-0.01863(17)	4.89(8)	1
C40	0.6712(3)	0.2344(3)	-0.04695(16)	5.47(10)	1
C41	0.6448(3)	0.3081(3)	-0.02091(17)	5.13(9)	1
C42	0.5954(3)	0.3122(2)	0.03375(14)	3.66(6)	1
C43	0.4300(2)	0.16171(19)	0.14629(14)	3.02(5)	1
C44	0.3805(3)	0.1449(2)	0.10312(16)	3.79(7)	1
C45	0.3225(3)	0.0847(3)	0.1084(2)	4.78(9)	1
C46	0.3126(3)	0.0390(3)	0.1569(2)	5.34(10)	1
C47	0.3617(3)	0.0529(2)	0.2004(2)	4.97(9)	1
C48	0.4192(3)	0.1139(2)	0.19492(16)	3.84(7)	1
C49	0.4154(2)	0.34481(19)	0.13982(12)	2.62(5)	1
C50	0.4440(2)	0.4208(2)	0.14552(13)	3.13(6)	1
C51	0.3807(3)	0.4915(2)	0.14354(15)	3.67(6)	1
C52	0.2864(3)	0.4891(2)	0.13666(15)	3.86(7)	1
C53	0.2553(3)	0.4156(2)	0.13226(15)	3.98(7)	1
C54	0.3187(2)	0.3444(2)	0.13366(14)	3.36(6)	1
C55	0.8933(2)	0.20975(19)	0.19942(12)	2.70(5)	1
C56	0.9449(3)	0.1323(3)	0.19823(19)	4.88(9)	1
C57	1.0439(3)	0.1194(3)	0.1962(2)	6.62(12)	1

C58	1.0942(3)	0.1832(3)	0.1942(2)	6.44(12)	1
C59	1.0465(3)	0.2595(3)	0.1955(2)	5.65(10)	1
C60	0.9474(2)	0.2724(2)	0.19761(17)	4.01(7)	1
C61	0.7451(2)	0.53503(19)	0.37283(13)	3.07(5)	1
C62	0.7996(3)	0.6736(2)	0.39117(18)	4.60(8)	1
C63	0.9013(4)	0.6712(3)	0.3590(3)	9.21(19)	1
C64	0.7980(5)	0.6802(3)	0.4540(2)	8.75(18)	1
C65	0.7302(4)	0.7398(2)	0.3691(2)	6.00(11)	1
C66	0.6721(2)	0.40821(19)	0.45588(13)	3.00(5)	1
C67	0.5986(3)	0.4171(3)	0.56257(13)	4.00(7)	1
C68	0.5839(4)	0.5063(3)	0.57936(17)	6.08(11)	1
C69	0.6722(3)	0.3666(4)	0.59365(17)	6.62(13)	1
C70	0.5032(3)	0.3846(3)	0.57009(18)	5.60(10)	1
C71	0.7672(3)	0.08508(19)	0.36677(14)	3.17(6)	1
C72	0.8263(4)	-0.0131(2)	0.44509(17)	4.86(9)	1
C73	0.7411(5)	-0.0553(4)	0.4693(3)	8.65(17)	1
C74	0.8580(5)	0.0315(3)	0.4899(2)	7.90(16)	1
C75	0.9042(5)	-0.0731(4)	0.4170(2)	8.97(18)	1
C76	0.6475(3)	0.02366(19)	0.15108(14)	3.16(6)	1
C77	0.6062(3)	-0.0954(2)	0.09595(17)	4.22(7)	1
C78	0.6999(4)	-0.1483(3)	0.0735(2)	6.63(12)	1
C79	0.5382(4)	-0.1402(3)	0.1358(2)	6.21(11)	1
C80	0.5561(4)	-0.0574(3)	0.04828(19)	5.90(11)	1
C81	0.8212(3)	0.2431(3)	0.07077(15)	4.01(7)	1
C82	0.9840(6)	0.2826(7)	0.0163(4)	12.8(3)	1
C83	0.9948(11)	0.3640(9)	0.0587(7)	6.9(3)	0.400000
C84	0.9670(17)	0.3160(16)	-0.0405(11)	12.3(6)	0.400000
C85	1.0671(12)	0.2036(11)	0.0398(7)	6.8(4)	0.400000
C86	1.0644(15)	0.2389(11)	0.0315(8)	12.1(5)	0.600000
C87	0.9733(12)	0.3743(11)	0.0271(8)	12.4(5)	0.600000
C88	0.9898(9)	0.2553(8)	-0.0485(6)	9.3(3)	0.600000
C89	0.6979(2)	0.46159(19)	0.12453(13)	2.99(5)	1
C90	0.6587(3)	0.5808(2)	0.05508(15)	3.98(7)	1
C91	0.7497(4)	0.6116(3)	0.0287(2)	7.06(13)	1
C92	0.5919(4)	0.6455(3)	0.0903(2)	6.89(12)	1
C93	0.6062(4)	0.5497(3)	0.01192(18)	5.41(9)	1
C94	0.4575(2)	0.29229(19)	0.27167(12)	2.79(5)	1
C95	0.2802(2)	0.3357(3)	0.31759(15)	3.77(7)	1
C96	0.2619(3)	0.4256(3)	0.30452(18)	5.21(9)	1

C97	0.2631(3)	0.3184(3)	0.38063(16)	5.01(9)	1
C98	0.2218(3)	0.2882(3)	0.28598(19)	5.95(11)	1
C99	0.9249(5)	0.4930(4)	0.5467(3)	8.45(15)	1
C100	0.9197(5)	0.4649(4)	0.4970(3)	8.21(15)	1
C101	0.9890(4)	0.4687(4)	0.4492(3)	7.54(13)	1
C102	0.9863(6)	0.4397(5)	0.4016(4)	5.03(17)	1/2

B_{eq} = 8/3 $\pi^2(U_{11}(aa^*)^2 + U_{22}(bb^*)^2 + U_{33}(cc^*)^2 + 2U_{12}(aa^*bb^*)\cos\gamma + 2U_{13}(aa^*cc^*)\cos\beta + 2U_{23}(bb^*cc^*)\cos\alpha)$

Table S13-3. Anisotropic displacement parameters

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Pd1	0.03791(12)	0.02934(11)	0.02420(10)	-0.00352(9)	-0.00661(9)	-0.00276(8)
Pd2	0.03425(11)	0.02532(10)	0.02238(10)	-0.00307(8)	-0.00685(8)	-0.00012(8)
Pd3	0.03872(12)	0.02681(11)	0.02918(11)	-0.00335(9)	-0.01141(9)	0.00114(8)
Pd4	0.04100(13)	0.02740(11)	0.03188(12)	-0.00596(9)	-0.01124(9)	-0.00155(9)
Pd5	0.02945(11)	0.03453(12)	0.02303(10)	-0.00549(9)	-0.00403(8)	-0.00210(8)
Pd6	0.03514(12)	0.02911(11)	0.02383(10)	-0.00585(9)	-0.00712(8)	0.00185(8)
Pd7	0.02456(10)	0.03544(12)	0.02611(10)	-0.00356(8)	-0.00434(8)	-0.00312(8)
Si1	0.0306(4)	0.0268(4)	0.0271(4)	-0.0043(3)	-0.0059(3)	-0.0001(3)
Si2	0.0348(4)	0.0319(4)	0.0253(4)	-0.0042(3)	-0.0088(3)	0.0023(3)
Si3	0.0482(5)	0.0287(4)	0.0402(5)	-0.0024(4)	-0.0144(4)	0.0007(4)
Si4	0.0298(4)	0.0351(4)	0.0287(4)	-0.0054(3)	-0.0083(3)	-0.0018(3)
Si5	0.0257(4)	0.0287(4)	0.0258(4)	-0.0022(3)	-0.0055(3)	-0.0024(3)
N1	0.0582(18)	0.0363(15)	0.0450(16)	-0.0081(13)	-0.0088(14)	-0.0062(12)
N2	0.0496(17)	0.0518(17)	0.0279(13)	-0.0023(13)	-0.0058(12)	-0.0071(12)
N3	0.070(2)	0.0389(16)	0.0468(17)	-0.0091(14)	-0.0232(15)	0.0096(13)
N4	0.0624(19)	0.0363(15)	0.0505(17)	-0.0060(14)	-0.0202(15)	-0.0082(13)
N5	0.057(2)	0.132(4)	0.063(2)	-0.039(2)	0.0099(18)	0.004(2)
N6	0.0599(18)	0.0430(16)	0.0418(16)	-0.0157(14)	-0.0170(14)	0.0137(13)
N7	0.0311(14)	0.0638(19)	0.0364(14)	-0.0055(13)	0.0005(11)	-0.0078(13)
C1	0.0326(15)	0.0371(16)	0.0396(17)	-0.0081(13)	-0.0011(13)	-0.0105(13)
C2	0.040(2)	0.055(2)	0.070(3)	-0.0027(17)	-0.0130(18)	-0.0120(19)
C3	0.034(2)	0.086(3)	0.120(4)	-0.005(2)	-0.015(2)	-0.018(3)
C4	0.049(3)	0.091(4)	0.114(4)	-0.032(3)	0.021(3)	-0.024(3)
C5	0.076(3)	0.072(3)	0.072(3)	-0.040(3)	0.020(2)	-0.004(2)
C6	0.051(2)	0.052(2)	0.047(2)	-0.0205(17)	-0.0002(16)	0.0012(16)
C7	0.0348(15)	0.0303(14)	0.0267(14)	-0.0004(12)	-0.0044(11)	-0.0007(11)
C8	0.051(2)	0.0326(16)	0.0424(18)	-0.0016(14)	-0.0136(15)	0.0002(13)

C9	0.072(3)	0.0311(17)	0.056(2)	0.0045(17)	-0.0129(19)	-0.0037(16)
C10	0.059(2)	0.052(2)	0.048(2)	0.0210(18)	-0.0131(18)	-0.0040(17)
C11	0.0377(18)	0.064(2)	0.044(2)	0.0045(16)	-0.0065(15)	-0.0038(17)
C12	0.0391(17)	0.0394(17)	0.0360(16)	-0.0023(13)	-0.0041(13)	-0.0029(13)
C13	0.0412(17)	0.0321(15)	0.0350(16)	-0.0074(13)	-0.0105(13)	0.0035(12)
C14	0.0432(19)	0.059(2)	0.045(2)	-0.0081(16)	-0.0094(16)	0.0076(17)
C15	0.035(2)	0.085(3)	0.072(3)	-0.0072(19)	-0.0045(19)	0.012(2)
C16	0.051(2)	0.075(3)	0.086(3)	-0.017(2)	-0.036(2)	0.021(3)
C17	0.068(3)	0.067(3)	0.061(3)	-0.011(2)	-0.041(2)	0.006(2)
C18	0.053(2)	0.058(2)	0.0437(19)	-0.0004(17)	-0.0211(17)	-0.0009(17)
C19	0.0450(18)	0.0345(16)	0.0281(14)	-0.0057(13)	-0.0049(13)	0.0000(12)
C20	0.061(3)	0.076(3)	0.052(2)	0.002(2)	-0.0033(19)	0.029(2)
C21	0.093(4)	0.087(4)	0.059(3)	-0.005(3)	0.012(3)	0.038(3)
C22	0.080(3)	0.083(3)	0.071(3)	-0.035(3)	0.023(3)	0.005(3)
C23	0.053(3)	0.127(5)	0.072(3)	-0.032(3)	-0.001(2)	-0.000(3)
C24	0.048(2)	0.094(3)	0.043(2)	-0.020(2)	-0.0094(17)	0.011(2)
C25	0.062(2)	0.0410(19)	0.046(2)	0.0053(17)	-0.0148(17)	0.0064(15)
C26	0.066(3)	0.078(3)	0.079(3)	0.010(2)	-0.023(2)	-0.006(3)
C27	0.078(4)	0.100(4)	0.105(4)	0.034(3)	-0.035(3)	-0.013(4)
C28	0.106(5)	0.076(4)	0.099(4)	0.045(3)	-0.022(4)	-0.019(3)
C29	0.117(5)	0.053(3)	0.085(4)	0.018(3)	-0.016(3)	-0.011(2)
C30	0.086(3)	0.043(2)	0.061(3)	0.008(2)	-0.012(2)	-0.0051(18)
C31	0.060(2)	0.0378(18)	0.0431(19)	-0.0103(16)	-0.0132(16)	0.0062(14)
C32	0.085(3)	0.051(2)	0.071(3)	-0.020(2)	0.001(2)	-0.001(2)
C33	0.107(4)	0.078(4)	0.086(4)	-0.050(3)	0.006(3)	0.003(3)
C34	0.076(3)	0.108(4)	0.071(3)	-0.039(3)	0.001(3)	0.025(3)
C35	0.071(3)	0.088(4)	0.100(4)	-0.007(3)	0.020(3)	0.012(3)
C36	0.069(3)	0.050(2)	0.090(3)	-0.011(2)	0.006(2)	0.006(2)
C37	0.0355(16)	0.0441(17)	0.0312(15)	-0.0062(13)	-0.0151(12)	-0.0016(13)
C38	0.055(2)	0.051(2)	0.0388(18)	-0.0153(17)	-0.0066(16)	-0.0089(15)
C39	0.071(3)	0.066(3)	0.048(2)	-0.013(2)	0.0001(19)	-0.024(2)
C40	0.077(3)	0.100(4)	0.0276(18)	-0.012(3)	0.0014(18)	-0.004(2)
C41	0.081(3)	0.069(3)	0.042(2)	-0.008(2)	-0.003(2)	0.013(2)
C42	0.052(2)	0.047(2)	0.0373(18)	-0.0004(16)	-0.0066(15)	0.0034(15)
C43	0.0308(15)	0.0391(17)	0.0459(18)	-0.0059(13)	-0.0068(13)	-0.0062(14)
C44	0.0422(19)	0.054(2)	0.051(2)	-0.0137(16)	-0.0105(16)	-0.0110(17)
C45	0.043(2)	0.062(3)	0.081(3)	-0.0151(18)	-0.013(2)	-0.026(2)
C46	0.044(2)	0.046(2)	0.114(4)	-0.0183(18)	-0.003(2)	-0.010(2)
C47	0.054(2)	0.049(2)	0.086(3)	-0.0177(18)	-0.003(2)	0.011(2)

C48	0.0431(19)	0.0435(19)	0.060(2)	-0.0050(15)	-0.0100(17)	0.0029(17)
C49	0.0321(15)	0.0399(16)	0.0276(14)	-0.0029(12)	-0.0066(12)	0.0002(12)
C50	0.0354(16)	0.0443(18)	0.0400(17)	-0.0038(14)	-0.0100(13)	-0.0006(14)
C51	0.053(2)	0.0408(18)	0.0451(19)	-0.0036(15)	-0.0062(16)	-0.0004(15)
C52	0.0413(19)	0.050(2)	0.050(2)	0.0084(16)	-0.0049(16)	0.0029(16)
C53	0.0336(17)	0.065(2)	0.051(2)	0.0026(16)	-0.0117(15)	0.0064(18)
C54	0.0375(17)	0.0487(19)	0.0431(18)	-0.0066(14)	-0.0112(14)	0.0014(15)
C55	0.0295(15)	0.0419(17)	0.0313(15)	0.0011(12)	-0.0083(12)	-0.0097(12)
C56	0.041(2)	0.053(2)	0.088(3)	0.0034(17)	-0.005(2)	-0.013(2)
C57	0.038(2)	0.070(3)	0.137(5)	0.021(2)	-0.012(3)	-0.025(3)
C58	0.030(2)	0.098(4)	0.115(4)	0.007(2)	-0.011(2)	-0.037(3)
C59	0.033(2)	0.077(3)	0.106(4)	-0.010(2)	-0.008(2)	-0.028(3)
C60	0.0312(17)	0.050(2)	0.071(3)	-0.0033(15)	-0.0052(16)	-0.0176(18)
C61	0.0470(19)	0.0365(17)	0.0336(16)	-0.0053(14)	-0.0071(14)	-0.0042(13)
C62	0.075(3)	0.0376(19)	0.068(3)	-0.0174(18)	-0.019(2)	-0.0080(18)
C63	0.087(4)	0.066(3)	0.200(7)	-0.034(3)	-0.015(4)	0.018(4)
C64	0.198(7)	0.061(3)	0.090(4)	-0.021(4)	-0.070(4)	-0.023(3)
C65	0.106(4)	0.036(2)	0.094(4)	-0.009(2)	-0.039(3)	-0.008(2)
C66	0.0453(18)	0.0381(17)	0.0323(16)	-0.0050(14)	-0.0112(14)	-0.0038(13)
C67	0.052(2)	0.074(3)	0.0233(15)	-0.0013(18)	-0.0026(14)	-0.0042(16)
C68	0.096(4)	0.092(4)	0.041(2)	-0.009(3)	-0.002(2)	-0.027(2)
C69	0.069(3)	0.136(5)	0.035(2)	0.023(3)	-0.006(2)	0.010(2)
C70	0.063(3)	0.097(4)	0.048(2)	-0.006(2)	0.005(2)	0.002(2)
C71	0.0511(19)	0.0325(16)	0.0399(17)	-0.0078(14)	-0.0156(15)	0.0021(13)
C72	0.096(3)	0.040(2)	0.055(2)	-0.009(2)	-0.037(2)	0.0198(18)
C73	0.138(5)	0.086(4)	0.113(5)	-0.045(4)	-0.028(4)	0.051(4)
C74	0.153(5)	0.077(3)	0.088(4)	-0.008(3)	-0.082(4)	0.010(3)
C75	0.149(6)	0.093(4)	0.084(4)	0.044(4)	-0.033(4)	0.021(3)
C76	0.0491(19)	0.0348(17)	0.0385(17)	-0.0057(14)	-0.0147(14)	0.0007(13)
C77	0.068(3)	0.0322(17)	0.065(2)	-0.0061(17)	-0.022(2)	-0.0159(16)
C78	0.085(3)	0.058(3)	0.109(4)	0.004(2)	-0.019(3)	-0.039(3)
C79	0.093(4)	0.050(2)	0.099(4)	-0.028(2)	-0.016(3)	-0.011(2)
C80	0.098(4)	0.063(3)	0.071(3)	-0.007(2)	-0.040(3)	-0.019(2)
C81	0.0397(19)	0.076(3)	0.0380(18)	-0.0170(18)	-0.0011(15)	-0.0004(17)
C82	0.093(5)	0.255(12)	0.128(7)	-0.054(6)	0.028(5)	0.054(7)
C89	0.0457(18)	0.0396(17)	0.0311(15)	-0.0133(14)	-0.0080(13)	0.0031(13)
C90	0.067(2)	0.044(2)	0.045(2)	-0.0166(17)	-0.0204(18)	0.0182(16)
C91	0.088(4)	0.091(4)	0.099(4)	-0.047(3)	-0.024(3)	0.050(3)
C92	0.113(4)	0.052(3)	0.094(4)	-0.002(3)	-0.014(3)	0.004(3)

C93	0.095(3)	0.065(3)	0.054(2)	-0.018(2)	-0.034(2)	0.017(2)
C94	0.0324(16)	0.0455(18)	0.0296(15)	-0.0074(13)	-0.0073(12)	-0.0002(13)
C95	0.0273(16)	0.074(3)	0.0395(18)	-0.0032(16)	-0.0001(13)	-0.0057(17)
C96	0.053(2)	0.084(3)	0.055(2)	0.006(2)	-0.0051(19)	0.003(2)
C97	0.049(2)	0.090(3)	0.046(2)	-0.006(2)	0.0059(17)	-0.002(2)
C98	0.049(2)	0.119(4)	0.063(3)	-0.031(3)	-0.005(2)	-0.010(3)

The general temperature factor expression: $\exp(-2\pi^2(a^{*2}U_{11}h^2 + b^{*2}U_{22}k^2 + c^{*2}U_{33}l^2 + 2a^*b^*U_{12}hk + 2a^*c^*U_{13}hl + 2b^*c^*U_{23}kl))$

Table S13-4. Bond lengths (Å)

atom	atom	distance	atom	atom	distance
Pd1	Pd2	2.7370(6)	Pd1	Si1	2.5326(9)
Pd1	Si2	2.5337(9)	Pd1	C61	1.999(3)
Pd1	C66	2.004(3)	Pd2	Pd3	2.7718(5)
Pd2	Pd6	2.6890(6)	Pd2	Pd7	2.8779(6)
Pd2	Si1	2.3058(9)	Pd2	Si2	2.2517(9)
Pd2	Si5	2.3111(9)	Pd3	Pd4	2.8053(7)
Pd3	Si2	2.7458(9)	Pd3	Si3	2.3016(10)
Pd3	Si5	2.5138(9)	Pd3	C71	1.959(3)
Pd4	Pd5	2.7476(6)	Pd4	Pd7	2.7807(4)
Pd4	Si3	2.2400(10)	Pd4	Si5	2.4513(9)
Pd4	C76	1.964(4)	Pd5	Pd6	2.8134(6)
Pd5	Pd7	2.6982(6)	Pd5	Si4	2.6302(9)
Pd5	Si5	2.4254(9)	Pd5	C37	2.373(3)
Pd5	C81	1.978(3)	Pd6	Pd7	2.8524(5)
Pd6	Si1	2.4304(9)	Pd6	Si5	2.5113(9)
Pd6	C89	1.962(3)	Pd7	Si4	2.3223(9)
Pd7	Si5	2.4653(7)	Pd7	C94	1.956(3)
Si1	C1	1.897(3)	Si1	C7	1.901(3)
Si2	C13	1.908(3)	Si2	C19	1.887(3)
Si3	C25	1.879(4)	Si3	C31	1.884(4)
Si4	C37	1.919(3)	Si4	C43	1.903(3)
Si4	C49	1.908(3)	Si5	C55	1.888(3)
N1	C61	1.147(5)	N1	C62	1.456(5)
N2	C66	1.142(4)	N2	C67	1.455(4)
N3	C71	1.144(5)	N3	C72	1.455(5)
N4	C76	1.134(5)	N4	C77	1.459(5)
N5	C81	1.129(5)	N5	C82	1.498(10)
N6	C89	1.150(4)	N6	C90	1.449(5)

N7	C94	1.147(4)	N7	C95	1.449(4)
C1	C2	1.375(5)	C1	C6	1.393(5)
C2	C3	1.394(6)	C3	C4	1.356(8)
C4	C5	1.366(7)	C5	C6	1.373(6)
C7	C8	1.386(4)	C7	C12	1.389(5)
C8	C9	1.376(5)	C9	C10	1.375(6)
C10	C11	1.369(6)	C11	C12	1.378(5)
C13	C14	1.380(4)	C13	C18	1.391(5)
C14	C15	1.389(5)	C15	C16	1.365(7)
C16	C17	1.368(6)	C17	C18	1.385(6)
C19	C20	1.373(5)	C19	C24	1.377(5)
C20	C21	1.376(7)	C21	C22	1.342(8)
C22	C23	1.355(7)	C23	C24	1.389(6)
C25	C26	1.365(7)	C25	C30	1.400(6)
C26	C27	1.399(7)	C27	C28	1.347(9)
C28	C29	1.330(10)	C29	C30	1.380(7)
C31	C32	1.376(6)	C31	C36	1.389(5)
C32	C33	1.402(8)	C33	C34	1.325(8)
C34	C35	1.372(9)	C35	C36	1.375(7)
C37	C38	1.389(5)	C37	C42	1.392(5)
C38	C39	1.379(5)	C39	C40	1.356(7)
C40	C41	1.370(7)	C41	C42	1.380(5)
C43	C44	1.384(5)	C43	C48	1.387(5)
C44	C45	1.371(6)	C45	C46	1.363(7)
C46	C47	1.373(7)	C47	C48	1.378(6)
C49	C50	1.397(5)	C49	C54	1.394(5)
C50	C51	1.377(5)	C51	C52	1.370(5)
C52	C53	1.369(6)	C53	C54	1.383(5)
C55	C56	1.387(5)	C55	C60	1.372(5)
C56	C57	1.375(6)	C57	C58	1.354(7)
C58	C59	1.350(7)	C59	C60	1.377(5)
C62	C63	1.516(7)	C62	C64	1.501(7)
C62	C65	1.504(6)	C67	C68	1.528(6)
C67	C69	1.510(6)	C67	C70	1.504(6)
C72	C73	1.507(8)	C72	C74	1.476(8)
C72	C75	1.470(7)	C77	C78	1.514(6)
C77	C79	1.503(6)	C77	C80	1.504(6)
C82	C83	1.75(2)	C82	C84	1.49(3)
C82	C85	1.771(19)	C82	C86	1.35(2)

C82	C87	1.54(2)	C82	C88	1.610(16)
C83	C87	0.86(3)	C84	C87	1.93(3)
C84	C88	1.03(3)	C85	C86	0.61(3)
C90	C91	1.491(7)	C90	C92	1.511(6)
C90	C93	1.498(7)	C95	C96	1.514(6)
C95	C97	1.510(5)	C95	C98	1.510(7)
C99	C100	1.302(10)	C99	C101[1]	1.465(10)
C100	C101	1.391(9)	C101	C102	1.254(11)

Symmetry Operators:

(1) -X+2,-Y+1,-Z+1

Table S13-5. Bond angles (°)

atom	atom	atom	angle	atom	atom	atom	angle
Pd2	Pd1	Si1	51.72(2)	Pd2	Pd1	Si2	50.40(2)
Pd2	Pd1	C61	133.73(9)	Pd2	Pd1	C66	127.79(10)
Si1	Pd1	Si2	101.58(3)	Si1	Pd1	C61	82.78(9)
Si1	Pd1	C66	165.70(10)	Si2	Pd1	C61	162.77(10)
Si2	Pd1	C66	81.59(9)	C61	Pd1	C66	98.32(13)
Pd1	Pd2	Pd3	125.39(2)	Pd1	Pd2	Pd6	117.061(17)
Pd1	Pd2	Pd7	140.264(14)	Pd1	Pd2	Si1	59.56(2)
Pd1	Pd2	Si2	60.11(3)	Pd1	Pd2	Si5	162.75(2)
Pd3	Pd2	Pd6	117.07(2)	Pd3	Pd2	Pd7	75.039(14)
Pd3	Pd2	Si1	168.65(2)	Pd3	Pd2	Si2	65.31(3)
Pd3	Pd2	Si5	58.44(2)	Pd6	Pd2	Pd7	61.537(15)
Pd6	Pd2	Si1	57.62(2)	Pd6	Pd2	Si2	174.01(3)
Pd6	Pd2	Si5	59.73(2)	Pd7	Pd2	Si1	107.73(3)
Pd7	Pd2	Si2	124.23(3)	Pd7	Pd2	Si5	55.44(2)
Si1	Pd2	Si2	118.93(3)	Si1	Pd2	Si5	113.54(3)
Si2	Pd2	Si5	121.15(3)	Pd2	Pd3	Pd4	98.279(18)
Pd2	Pd3	Si2	48.17(2)	Pd2	Pd3	Si3	147.91(3)
Pd2	Pd3	Si5	51.57(2)	Pd2	Pd3	C71	125.93(10)
Pd4	Pd3	Si2	144.77(2)	Pd4	Pd3	Si3	50.87(3)
Pd4	Pd3	Si5	54.55(2)	Pd4	Pd3	C71	135.71(10)
Si2	Pd3	Si3	156.78(3)	Si2	Pd3	Si5	98.06(3)
Si2	Pd3	C71	78.25(10)	Si3	Pd3	Si5	103.35(3)
Si3	Pd3	C71	85.06(10)	Si5	Pd3	C71	157.97(11)
Pd3	Pd4	Pd5	111.036(17)	Pd3	Pd4	Pd7	76.070(15)
Pd3	Pd4	Si3	52.85(3)	Pd3	Pd4	Si5	56.66(2)

Pd3	Pd4	C76	144.29(10)	Pd5	Pd4	Pd7	58.424(13)
Pd5	Pd4	Si3	162.14(3)	Pd5	Pd4	Si5	55.26(2)
Pd5	Pd4	C76	104.51(10)	Pd7	Pd4	Si3	117.22(3)
Pd7	Pd4	Si5	55.796(19)	Pd7	Pd4	C76	128.11(10)
Si3	Pd4	Si5	107.28(4)	Si3	Pd4	C76	91.48(10)
Si5	Pd4	C76	156.17(10)	Pd4	Pd5	Pd6	107.72(2)
Pd4	Pd5	Pd7	61.402(14)	Pd4	Pd5	Si4	81.48(2)
Pd4	Pd5	Si5	56.16(2)	Pd4	Pd5	C37	108.50(8)
Pd4	Pd5	C81	118.16(11)	Pd6	Pd5	Pd7	62.292(14)
Pd6	Pd5	Si4	96.22(2)	Pd6	Pd5	Si5	56.71(2)
Pd6	Pd5	C37	118.95(7)	Pd6	Pd5	C81	93.64(12)
Pd7	Pd5	Si4	51.657(19)	Pd7	Pd5	Si5	57.23(2)
Pd7	Pd5	C37	96.13(7)	Pd7	Pd5	C81	151.38(12)
Si4	Pd5	Si5	108.11(3)	Si4	Pd5	C37	44.74(7)
Si4	Pd5	C81	153.98(11)	Si5	Pd5	C37	152.77(7)
Si5	Pd5	C81	97.44(11)	C37	Pd5	C81	109.78(13)
Pd2	Pd6	Pd5	102.168(16)	Pd2	Pd6	Pd7	62.493(15)
Pd2	Pd6	Si1	53.25(2)	Pd2	Pd6	Si5	52.64(2)
Pd2	Pd6	C89	155.79(9)	Pd5	Pd6	Pd7	56.872(13)
Pd5	Pd6	Si1	155.40(3)	Pd5	Pd6	Si5	53.83(2)
Pd5	Pd6	C89	101.29(10)	Pd7	Pd6	Si1	105.03(3)
Pd7	Pd6	Si5	54.274(19)	Pd7	Pd6	C89	128.44(11)
Si1	Pd6	Si5	102.78(3)	Si1	Pd6	C89	103.24(10)
Si5	Pd6	C89	151.20(9)	Pd2	Pd7	Pd4	96.375(14)
Pd2	Pd7	Pd5	100.286(14)	Pd2	Pd7	Pd6	55.970(14)
Pd2	Pd7	Si4	158.46(3)	Pd2	Pd7	Si5	50.54(2)
Pd2	Pd7	C94	98.99(10)	Pd4	Pd7	Pd5	60.174(13)
Pd4	Pd7	Pd6	105.731(13)	Pd4	Pd7	Si4	86.45(2)
Pd4	Pd7	Si5	55.32(2)	Pd4	Pd7	C94	129.33(9)
Pd5	Pd7	Pd6	60.836(14)	Pd5	Pd7	Si4	62.66(2)
Pd5	Pd7	Si5	55.81(2)	Pd5	Pd7	C94	157.15(9)
Pd6	Pd7	Si4	102.68(3)	Pd6	Pd7	Si5	55.79(2)
Pd6	Pd7	C94	122.84(10)	Si4	Pd7	Si5	117.55(3)
Si4	Pd7	C94	95.56(10)	Si5	Pd7	C94	146.74(10)
Pd1	Si1	Pd2	68.72(2)	Pd1	Si1	Pd6	137.65(4)
Pd1	Si1	C1	107.55(10)	Pd1	Si1	C7	102.74(9)
Pd2	Si1	Pd6	69.13(3)	Pd2	Si1	C1	124.22(10)
Pd2	Si1	C7	129.56(10)	Pd6	Si1	C1	99.16(10)
Pd6	Si1	C7	100.65(10)	C1	Si1	C7	105.98(13)

Pd1	Si2	Pd2	69.49(3)	Pd1	Si2	Pd3	135.96(3)
Pd1	Si2	C13	98.92(10)	Pd1	Si2	C19	111.28(9)
Pd2	Si2	Pd3	66.52(2)	Pd2	Si2	C13	123.18(10)
Pd2	Si2	C19	127.43(11)	Pd3	Si2	C13	103.17(10)
Pd3	Si2	C19	96.88(10)	C13	Si2	C19	108.90(14)
Pd3	Si3	Pd4	76.28(3)	Pd3	Si3	C25	126.00(14)
Pd3	Si3	C31	111.70(11)	Pd4	Si3	C25	117.41(12)
Pd4	Si3	C31	112.57(12)	C25	Si3	C31	109.27(16)
Pd5	Si4	Pd7	65.68(3)	Pd5	Si4	C37	60.52(10)
Pd5	Si4	C43	127.55(9)	Pd5	Si4	C49	126.45(10)
Pd7	Si4	C37	125.73(11)	Pd7	Si4	C43	114.16(11)
Pd7	Si4	C49	103.70(10)	C37	Si4	C43	103.74(14)
C37	Si4	C49	102.06(13)	C43	Si4	C49	105.16(14)
Pd2	Si5	Pd3	69.98(2)	Pd2	Si5	Pd4	124.65(3)
Pd2	Si5	Pd5	129.38(3)	Pd2	Si5	Pd6	67.63(3)
Pd2	Si5	Pd7	74.02(2)	Pd2	Si5	C55	106.73(10)
Pd3	Si5	Pd4	68.79(3)	Pd3	Si5	Pd5	135.86(4)
Pd3	Si5	Pd6	135.92(3)	Pd3	Si5	Pd7	87.45(3)
Pd3	Si5	C55	95.59(9)	Pd4	Si5	Pd5	68.58(3)
Pd4	Si5	Pd6	129.64(3)	Pd4	Si5	Pd7	68.88(2)
Pd4	Si5	C55	112.48(10)	Pd5	Si5	Pd6	69.46(2)
Pd5	Si5	Pd7	66.96(2)	Pd5	Si5	C55	110.76(9)
Pd6	Si5	Pd7	69.94(2)	Pd6	Si5	C55	107.50(10)
Pd7	Si5	C55	176.95(10)	C61	N1	C62	178.6(3)
C66	N2	C67	178.1(3)	C71	N3	C72	175.6(4)
C76	N4	C77	176.6(4)	C81	N5	C82	170.8(6)
C89	N6	C90	174.9(3)	C94	N7	C95	168.8(3)
Si1	C1	C2	120.9(3)	Si1	C1	C6	122.5(3)
C2	C1	C6	116.5(3)	C1	C2	C3	121.5(4)
C2	C3	C4	119.9(4)	C3	C4	C5	120.2(5)
C4	C5	C6	119.7(4)	C1	C6	C5	122.1(4)
Si1	C7	C8	123.1(2)	Si1	C7	C12	120.1(2)
C8	C7	C12	116.7(3)	C7	C8	C9	121.5(3)
C8	C9	C10	120.3(3)	C9	C10	C11	119.7(3)
C10	C11	C12	119.6(4)	C7	C12	C11	122.2(3)
Si2	C13	C14	118.5(3)	Si2	C13	C18	125.1(2)
C14	C13	C18	116.4(3)	C13	C14	C15	122.0(4)
C14	C15	C16	120.3(4)	C15	C16	C17	119.2(4)
C16	C17	C18	120.4(4)	C13	C18	C17	121.7(3)

Si2	C19	C20	125.0(3)	Si2	C19	C24	118.8(2)
C20	C19	C24	116.1(3)	C19	C20	C21	122.2(4)
C20	C21	C22	120.7(5)	C21	C22	C23	119.2(5)
C22	C23	C24	120.4(5)	C19	C24	C23	121.3(4)
Si3	C25	C26	120.8(3)	Si3	C25	C30	122.6(3)
C26	C25	C30	116.4(4)	C25	C26	C27	121.0(5)
C26	C27	C28	120.5(6)	C27	C28	C29	120.1(5)
C28	C29	C30	120.6(5)	C25	C30	C29	121.3(5)
Si3	C31	C32	126.9(3)	Si3	C31	C36	117.0(3)
C32	C31	C36	116.0(4)	C31	C32	C33	121.2(4)
C32	C33	C34	120.8(6)	C33	C34	C35	120.2(5)
C34	C35	C36	119.2(5)	C31	C36	C35	122.6(4)
Pd5	C37	Si4	74.74(11)	Pd5	C37	C38	97.7(2)
Pd5	C37	C42	93.8(2)	Si4	C37	C38	121.8(2)
Si4	C37	C42	122.1(2)	C38	C37	C42	115.9(3)
C37	C38	C39	122.2(4)	C38	C39	C40	120.1(4)
C39	C40	C41	119.9(4)	C40	C41	C42	119.8(4)
C37	C42	C41	122.0(3)	Si4	C43	C44	122.0(3)
Si4	C43	C48	121.2(3)	C44	C43	C48	116.7(3)
C43	C44	C45	121.7(4)	C44	C45	C46	120.4(4)
C45	C46	C47	119.8(4)	C46	C47	C48	119.5(4)
C43	C48	C47	121.9(4)	Si4	C49	C50	120.6(2)
Si4	C49	C54	123.0(3)	C50	C49	C54	116.3(3)
C49	C50	C51	121.8(3)	C50	C51	C52	120.5(3)
C51	C52	C53	119.3(3)	C52	C53	C54	120.4(3)
C49	C54	C53	121.6(3)	Si5	C55	C56	123.4(3)
Si5	C55	C60	120.5(2)	C56	C55	C60	115.8(3)
C55	C56	C57	121.9(4)	C56	C57	C58	120.1(4)
C57	C58	C59	119.7(4)	C58	C59	C60	120.1(4)
C55	C60	C59	122.4(4)	Pd1	C61	N1	168.7(3)
N1	C62	C63	106.6(3)	N1	C62	C64	107.1(4)
N1	C62	C65	107.8(4)	C63	C62	C64	111.7(5)
C63	C62	C65	111.7(4)	C64	C62	C65	111.6(4)
Pd1	C66	N2	168.3(3)	N2	C67	C68	107.2(3)
N2	C67	C69	106.4(3)	N2	C67	C70	108.0(3)
C68	C67	C69	111.9(4)	C68	C67	C70	110.6(3)
C69	C67	C70	112.4(4)	Pd3	C71	N3	173.5(3)
N3	C72	C73	106.8(4)	N3	C72	C74	109.2(3)
N3	C72	C75	108.5(4)	C73	C72	C74	110.5(4)

C73	C72	C75	109.2(4)	C74	C72	C75	112.5(5)
Pd4	C76	N4	175.5(3)	N4	C77	C78	106.9(4)
N4	C77	C79	108.3(3)	N4	C77	C80	107.2(3)
C78	C77	C79	112.9(3)	C78	C77	C80	111.3(4)
C79	C77	C80	110.0(4)	Pd5	C81	N5	171.4(4)
N5	C82	C83	102.3(7)	N5	C82	C84	106.9(11)
N5	C82	C85	99.5(8)	N5	C82	C86	114.5(11)
N5	C82	C87	105.6(8)	N5	C82	C88	102.7(8)
C83	C82	C84	107.7(13)	C83	C82	C85	102.4(9)
C83	C82	C86	91.7(11)	C83	C82	C87	29.3(9)
C83	C82	C88	143.2(10)	C84	C82	C85	134.0(12)
C84	C82	C86	128.9(13)	C84	C82	C87	79.1(13)
C84	C82	C88	38.6(11)	C85	C82	C86	16.5(11)
C85	C82	C87	128.8(11)	C85	C82	C88	99.6(9)
C86	C82	C87	115.1(13)	C86	C82	C88	101.9(10)
C87	C82	C88	116.8(10)	C82	C83	C87	61.5(16)
C82	C84	C87	51.7(11)	C82	C84	C88	77.1(17)
C87	C84	C88	127(2)	C82	C85	C86	39(2)
C82	C86	C85	125(3)	C82	C87	C83	89.3(18)
C82	C87	C84	49.3(10)	C83	C87	C84	137(2)
C82	C88	C84	64.2(16)	Pd6	C89	N6	175.1(3)
N6	C90	C91	108.1(3)	N6	C90	C92	107.8(3)
N6	C90	C93	107.5(3)	C91	C90	C92	111.1(4)
C91	C90	C93	112.3(4)	C92	C90	C93	109.7(4)
Pd7	C94	N7	172.7(3)	N7	C95	C96	106.1(3)
N7	C95	C97	108.2(3)	N7	C95	C98	107.3(3)
C96	C95	C97	111.8(3)	C96	C95	C98	111.7(3)
C97	C95	C98	111.5(3)	C100	C99	C101[1]	115.9(6)
C99	C100	C101	124.9(7)	C99[1]	C101	C100	119.2(6)
C99[1]	C101	C102	115.3(6)	C100	C101	C102	125.5(7)

Symmetry Operators:

(1) -X+2,-Y+1,-Z+1

Table S13-6. Torsion Angles(°)

(Those having bond angles > 160 or < 20 degrees are excluded.)

atom1	atom2	atom3	atom4	angle	atom1	atom2	atom3	atom4	angle
Pd2	Pd1	Si1	Pd2	0.0	Pd2	Pd1	Si1	Pd6	5.83(4)
Pd2	Pd1	Si1	C1	-120.65(4)	Pd2	Pd1	Si1	C7	127.79(4)

Si1	Pd1	Pd2	Pd3	167.82(3)	Si1	Pd1	Pd2	Pd6	-3.99(3)
Si1	Pd1	Pd2	Pd7	-81.12(3)	Si1	Pd1	Pd2	Si1	0.00(2)
Si1	Pd1	Pd2	Si2	170.00(3)	Pd2	Pd1	Si2	Pd2	-0.0
Pd2	Pd1	Si2	Pd3	2.58(3)	Pd2	Pd1	Si2	C13	122.19(3)
Pd2	Pd1	Si2	C19	-123.41(5)	Si2	Pd1	Pd2	Pd3	-2.18(3)
Si2	Pd1	Pd2	Pd6	-173.99(3)	Si2	Pd1	Pd2	Pd7	108.88(4)
Si2	Pd1	Pd2	Si1	-170.00(3)	Si2	Pd1	Pd2	Si2	-0.00(2)
C61	Pd1	Pd2	Pd3	155.34(13)	C61	Pd1	Pd2	Pd6	-16.47(13)
C61	Pd1	Pd2	Pd7	-93.60(13)	C61	Pd1	Pd2	Si1	-12.48(13)
C61	Pd1	Pd2	Si2	157.52(13)	C66	Pd1	Pd2	Pd3	-30.35(12)
C66	Pd1	Pd2	Pd6	157.84(12)	C66	Pd1	Pd2	Pd7	80.71(12)
C66	Pd1	Pd2	Si1	161.83(12)	C66	Pd1	Pd2	Si2	-28.17(12)
Si1	Pd1	Si2	Pd2	-8.00(3)	Si1	Pd1	Si2	Pd3	-5.41(5)
Si1	Pd1	Si2	C13	114.20(3)	Si1	Pd1	Si2	C19	-131.41(4)
Si2	Pd1	Si1	Pd2	7.85(3)	Si2	Pd1	Si1	Pd6	13.68(6)
Si2	Pd1	Si1	C1	-112.80(4)	Si2	Pd1	Si1	C7	135.64(4)
C61	Pd1	Si1	Pd2	170.94(9)	C61	Pd1	Si1	Pd6	176.78(11)
C61	Pd1	Si1	C1	50.29(10)	C61	Pd1	Si1	C7	-61.27(10)
C66	Pd1	Si2	Pd2	157.84(10)	C66	Pd1	Si2	Pd3	160.42(11)
C66	Pd1	Si2	C13	-79.96(10)	C66	Pd1	Si2	C19	34.43(11)
Pd1	Pd2	Pd3	Pd4	169.923(13)	Pd1	Pd2	Pd3	Si2	2.082(12)
Pd1	Pd2	Pd3	Si3	155.49(3)	Pd1	Pd2	Pd3	Si5	-159.797(17)
Pd1	Pd2	Pd3	C71	-7.38(3)	Pd1	Pd2	Pd6	Pd5	-176.902(11)
Pd1	Pd2	Pd6	Pd7	-134.855(14)	Pd1	Pd2	Pd6	Si1	4.070(11)
Pd1	Pd2	Pd6	Si5	160.657(16)	Pd1	Pd2	Pd6	C89	-11.42(4)
Pd1	Pd2	Pd7	Pd4	-156.25(3)	Pd1	Pd2	Pd7	Pd5	142.99(3)
Pd1	Pd2	Pd7	Pd6	99.05(3)	Pd1	Pd2	Pd7	Si4	107.24(4)
Pd1	Pd2	Pd7	Si5	170.22(3)	Pd1	Pd2	Pd7	C94	-24.70(3)
Pd1	Pd2	Si1	Pd1	0.0	Pd1	Pd2	Si1	Pd6	-175.80(3)
Pd1	Pd2	Si1	C1	97.27(5)	Pd1	Pd2	Si1	C7	-89.14(4)
Pd1	Pd2	Si2	Pd1	-0.0	Pd1	Pd2	Si2	Pd3	-178.04(2)
Pd1	Pd2	Si2	C13	-87.32(5)	Pd1	Pd2	Si2	C19	101.63(5)
Pd3	Pd2	Pd6	Pd5	10.595(16)	Pd3	Pd2	Pd6	Pd7	52.641(12)
Pd3	Pd2	Pd6	Si1	-168.434(15)	Pd3	Pd2	Pd6	Si5	-11.846(11)
Pd3	Pd2	Pd6	C89	176.08(3)	Pd6	Pd2	Pd3	Pd4	-18.271(16)
Pd6	Pd2	Pd3	Si2	173.888(16)	Pd6	Pd2	Pd3	Si3	-32.71(3)
Pd6	Pd2	Pd3	Si5	12.009(11)	Pd6	Pd2	Pd3	C71	164.430(15)
Pd3	Pd2	Pd7	Pd4	-28.195(13)	Pd3	Pd2	Pd7	Pd5	-88.961(13)
Pd3	Pd2	Pd7	Pd6	-132.893(13)	Pd3	Pd2	Pd7	Si4	-124.71(4)

Pd3	Pd2	Pd7	Si5	-61.726(10)	Pd3	Pd2	Pd7	C94	103.358(16)
Pd7	Pd2	Pd3	Pd4	28.056(11)	Pd7	Pd2	Pd3	Si2	-139.786(13)
Pd7	Pd2	Pd3	Si3	13.62(3)	Pd7	Pd2	Pd3	Si5	58.336(11)
Pd7	Pd2	Pd3	C71	-149.243(18)	Pd3	Pd2	Si2	Pd1	178.04(2)
Pd3	Pd2	Si2	Pd3	-0.0	Pd3	Pd2	Si2	C13	90.72(4)
Pd3	Pd2	Si2	C19	-80.33(5)	Si2	Pd2	Pd3	Pd4	167.84(3)
Si2	Pd2	Pd3	Si2	-0.00(2)	Si2	Pd2	Pd3	Si3	153.41(4)
Si2	Pd2	Pd3	Si5	-161.88(3)	Si2	Pd2	Pd3	C71	-9.46(3)
Pd3	Pd2	Si5	Pd3	0.0	Pd3	Pd2	Si5	Pd4	43.96(3)
Pd3	Pd2	Si5	Pd5	133.56(5)	Pd3	Pd2	Si5	Pd6	167.61(2)
Pd3	Pd2	Si5	Pd7	93.16(2)	Pd3	Pd2	Si5	C55	-89.92(3)
Si5	Pd2	Pd3	Pd4	-30.28(2)	Si5	Pd2	Pd3	Si2	161.88(2)
Si5	Pd2	Pd3	Si3	-44.72(4)	Si5	Pd2	Pd3	Si5	0.00(2)
Si5	Pd2	Pd3	C71	152.42(3)	Pd6	Pd2	Pd7	Pd4	104.698(13)
Pd6	Pd2	Pd7	Pd5	43.932(11)	Pd6	Pd2	Pd7	Pd6	0.0
Pd6	Pd2	Pd7	Si4	8.19(4)	Pd6	Pd2	Pd7	Si5	71.167(12)
Pd6	Pd2	Pd7	C94	-123.749(16)	Pd7	Pd2	Pd6	Pd5	-42.0
Pd7	Pd2	Pd6	Pd7	-0.0	Pd7	Pd2	Pd6	Si1	138.925(12)
Pd7	Pd2	Pd6	Si5	-64.488(10)	Pd7	Pd2	Pd6	C89	123.44(4)
Pd6	Pd2	Si1	Pd1	175.80(3)	Pd6	Pd2	Si1	Pd6	-0.0
Pd6	Pd2	Si1	C1	-86.94(4)	Pd6	Pd2	Si1	C7	86.65(5)
Si1	Pd2	Pd6	Pd5	179.03(3)	Si1	Pd2	Pd6	Pd7	-138.92(3)
Si1	Pd2	Pd6	Si1	-0.00(2)	Si1	Pd2	Pd6	Si5	156.59(3)
Si1	Pd2	Pd6	C89	-15.49(4)	Pd6	Pd2	Si5	Pd3	-167.61(2)
Pd6	Pd2	Si5	Pd4	-123.65(4)	Pd6	Pd2	Si5	Pd5	-34.05(3)
Pd6	Pd2	Si5	Pd6	0.0	Pd6	Pd2	Si5	Pd7	-74.451(16)
Pd6	Pd2	Si5	C55	102.46(4)	Si5	Pd2	Pd6	Pd5	22.44(2)
Si5	Pd2	Pd6	Pd7	64.49(2)	Si5	Pd2	Pd6	Si1	-156.59(2)
Si5	Pd2	Pd6	Si5	0.00(2)	Si5	Pd2	Pd6	C89	-172.07(4)
Pd7	Pd2	Si1	Pd1	138.465(16)	Pd7	Pd2	Si1	Pd6	-37.33(2)
Pd7	Pd2	Si1	C1	-124.27(4)	Pd7	Pd2	Si1	C7	49.32(5)
Si1	Pd2	Pd7	Pd4	140.33(2)	Si1	Pd2	Pd7	Pd5	79.56(2)
Si1	Pd2	Pd7	Pd6	35.63(2)	Si1	Pd2	Pd7	Si4	43.82(5)
Si1	Pd2	Pd7	Si5	106.80(2)	Si1	Pd2	Pd7	C94	-88.12(3)
Pd7	Pd2	Si2	Pd1	-132.981(19)	Pd7	Pd2	Si2	Pd3	48.98(2)
Pd7	Pd2	Si2	C13	139.70(4)	Pd7	Pd2	Si2	C19	-31.36(6)
Si2	Pd2	Pd7	Pd4	-73.39(3)	Si2	Pd2	Pd7	Pd5	-134.16(3)
Si2	Pd2	Pd7	Pd6	-178.09(3)	Si2	Pd2	Pd7	Si4	-169.90(4)
Si2	Pd2	Pd7	Si5	-106.92(3)	Si2	Pd2	Pd7	C94	58.16(3)

Pd7	Pd2	Si5	Pd3	-93.16(2)	Pd7	Pd2	Si5	Pd4	-49.20(3)
Pd7	Pd2	Si5	Pd5	40.40(3)	Pd7	Pd2	Si5	Pd6	74.451(17)
Pd7	Pd2	Si5	Pd7	0.0	Pd7	Pd2	Si5	C55	176.91(4)
Si5	Pd2	Pd7	Pd4	33.53(3)	Si5	Pd2	Pd7	Pd5	-27.24(3)
Si5	Pd2	Pd7	Pd6	-71.17(3)	Si5	Pd2	Pd7	Si4	-62.98(5)
Si5	Pd2	Pd7	Si5	0.00(2)	Si5	Pd2	Pd7	C94	165.08(3)
Si1	Pd2	Si2	Pd1	9.85(3)	Si1	Pd2	Si2	Pd3	-168.20(3)
Si1	Pd2	Si2	C13	-77.47(5)	Si1	Pd2	Si2	C19	111.47(5)
Si2	Pd2	Si1	Pd1	-9.90(3)	Si2	Pd2	Si1	Pd6	174.30(3)
Si2	Pd2	Si1	C1	87.36(5)	Si2	Pd2	Si1	C7	-99.05(5)
Si1	Pd2	Si5	Pd3	170.92(3)	Si1	Pd2	Si5	Pd4	-145.12(4)
Si1	Pd2	Si5	Pd5	-55.53(5)	Si1	Pd2	Si5	Pd6	-21.47(3)
Si1	Pd2	Si5	Pd7	-95.92(3)	Si1	Pd2	Si5	C55	80.99(4)
Si5	Pd2	Si1	Pd1	-162.22(2)	Si5	Pd2	Si1	Pd6	21.98(3)
Si5	Pd2	Si1	C1	-64.96(5)	Si5	Pd2	Si1	C7	108.64(5)
Si2	Pd2	Si5	Pd3	19.28(4)	Si2	Pd2	Si5	Pd4	63.24(5)
Si2	Pd2	Si5	Pd5	152.84(4)	Si2	Pd2	Si5	Pd6	-173.11(3)
Si2	Pd2	Si5	Pd7	112.44(3)	Si2	Pd2	Si5	C55	-70.64(5)
Si5	Pd2	Si2	Pd1	160.00(3)	Si5	Pd2	Si2	Pd3	-18.04(3)
Si5	Pd2	Si2	C13	72.68(6)	Si5	Pd2	Si2	C19	-98.37(5)
Pd2	Pd3	Pd4	Pd5	18.689(14)	Pd2	Pd3	Pd4	Pd7	-28.980(10)
Pd2	Pd3	Pd4	Si3	-170.170(13)	Pd2	Pd3	Pd4	Si5	29.0
Pd2	Pd3	Pd4	C76	-167.09(2)	Pd2	Pd3	Si2	Pd1	-2.64(3)
Pd2	Pd3	Si2	Pd2	0.0	Pd2	Pd3	Si2	C13	-120.75(4)
Pd2	Pd3	Si2	C19	127.95(4)	Pd2	Pd3	Si3	Pd4	18.54(6)
Pd2	Pd3	Si3	C25	132.65(5)	Pd2	Pd3	Si3	C31	-90.61(6)
Pd2	Pd3	Si5	Pd2	0.0	Pd2	Pd3	Si5	Pd4	-142.23(2)
Pd2	Pd3	Si5	Pd5	-126.45(5)	Pd2	Pd3	Si5	Pd6	-16.57(3)
Pd2	Pd3	Si5	Pd7	-73.916(19)	Pd2	Pd3	Si5	C55	105.80(4)
Pd4	Pd3	Si2	Pd1	-23.82(7)	Pd4	Pd3	Si2	Pd2	-21.18(4)
Pd4	Pd3	Si2	C13	-141.93(3)	Pd4	Pd3	Si2	C19	106.77(4)
Si2	Pd3	Pd4	Pd5	34.48(4)	Si2	Pd3	Pd4	Pd7	-13.19(4)
Si2	Pd3	Pd4	Si3	-154.38(4)	Si2	Pd3	Pd4	Si5	44.79(4)
Si2	Pd3	Pd4	C76	-151.31(4)	Pd4	Pd3	Si3	Pd4	-0.0
Pd4	Pd3	Si3	C25	114.11(6)	Pd4	Pd3	Si3	C31	-109.15(5)
Si3	Pd3	Pd4	Pd5	-171.14(3)	Si3	Pd3	Pd4	Pd7	141.19(3)
Si3	Pd3	Pd4	Si3	-0.00(3)	Si3	Pd3	Pd4	Si5	-160.82(3)
Si3	Pd3	Pd4	C76	3.08(4)	Pd4	Pd3	Si5	Pd2	142.23(2)
Pd4	Pd3	Si5	Pd4	0.0	Pd4	Pd3	Si5	Pd5	15.78(3)

Pd4	Pd3	Si5	Pd6	125.66(5)	Pd4	Pd3	Si5	Pd7	68.31(2)
Pd4	Pd3	Si5	C55	-111.98(3)	Si5	Pd3	Pd4	Pd5	-10.32(2)
Si5	Pd3	Pd4	Pd7	-57.99(2)	Si5	Pd3	Pd4	Si3	160.82(2)
Si5	Pd3	Pd4	Si5	-0.000(19)	Si5	Pd3	Pd4	C76	163.90(3)
C71	Pd3	Pd4	Pd5	-164.44(14)	C71	Pd3	Pd4	Pd7	147.89(14)
C71	Pd3	Pd4	Si3	6.70(14)	C71	Pd3	Pd4	Si5	-154.13(14)
C71	Pd3	Pd4	C76	9.78(14)	Si2	Pd3	Si3	Pd4	140.76(7)
Si2	Pd3	Si3	C25	-105.13(8)	Si2	Pd3	Si3	C31	31.61(11)
Si3	Pd3	Si2	Pd1	-145.54(7)	Si3	Pd3	Si2	Pd2	-142.90(8)
Si3	Pd3	Si2	C13	96.35(8)	Si3	Pd3	Si2	C19	-14.95(10)
Si2	Pd3	Si5	Pd2	-13.54(2)	Si2	Pd3	Si5	Pd4	-155.76(2)
Si2	Pd3	Si5	Pd5	-139.99(4)	Si2	Pd3	Si5	Pd6	-30.11(5)
Si2	Pd3	Si5	Pd7	-87.45(3)	Si2	Pd3	Si5	C55	92.26(3)
Si5	Pd3	Si2	Pd1	11.61(5)	Si5	Pd3	Si2	Pd2	14.25(2)
Si5	Pd3	Si2	C13	-106.50(3)	Si5	Pd3	Si2	C19	142.20(3)
C71	Pd3	Si2	Pd1	169.55(11)	C71	Pd3	Si2	Pd2	172.19(10)
C71	Pd3	Si2	C13	51.44(11)	C71	Pd3	Si2	C19	-59.86(11)
Si3	Pd3	Si5	Pd2	157.41(3)	Si3	Pd3	Si5	Pd4	15.18(3)
Si3	Pd3	Si5	Pd5	30.96(5)	Si3	Pd3	Si5	Pd6	140.84(5)
Si3	Pd3	Si5	Pd7	83.49(3)	Si3	Pd3	Si5	C55	-96.79(4)
Si5	Pd3	Si3	Pd4	-15.96(3)	Si5	Pd3	Si3	C25	98.14(5)
Si5	Pd3	Si3	C31	-125.12(4)	C71	Pd3	Si3	Pd4	-175.31(10)
C71	Pd3	Si3	C25	-61.21(11)	C71	Pd3	Si3	C31	75.53(10)
C71	Pd3	Si5	Pd2	-92.1(3)	C71	Pd3	Si5	Pd4	125.7(3)
C71	Pd3	Si5	Pd5	141.5(3)	C71	Pd3	Si5	Pd6	-108.7(3)
C71	Pd3	Si5	Pd7	-166.0(3)	C71	Pd3	Si5	C55	13.7(3)
Pd3	Pd4	Pd5	Pd6	-14.272(15)	Pd3	Pd4	Pd5	Pd7	-57.376(12)
Pd3	Pd4	Pd5	Si4	-108.120(13)	Pd3	Pd4	Pd5	Si5	10.5
Pd3	Pd4	Pd5	C37	-144.274(14)	Pd3	Pd4	Pd5	C81	90.00(2)
Pd3	Pd4	Pd7	Pd2	27.688(12)	Pd3	Pd4	Pd7	Pd5	125.913(12)
Pd3	Pd4	Pd7	Pd6	84.078(15)	Pd3	Pd4	Pd7	Si4	-173.746(13)
Pd3	Pd4	Pd7	Si5	58.926(11)	Pd3	Pd4	Pd7	C94	-79.46(3)
Pd3	Pd4	Si3	Pd3	0.0	Pd3	Pd4	Si3	C25	-123.71(6)
Pd3	Pd4	Si3	C31	108.10(5)	Pd3	Pd4	Si5	Pd2	-44.39(3)
Pd3	Pd4	Si5	Pd3	0.0	Pd3	Pd4	Si5	Pd5	-168.26(2)
Pd3	Pd4	Si5	Pd6	-132.78(4)	Pd3	Pd4	Si5	Pd7	-95.669(17)
Pd3	Pd4	Si5	C55	87.27(3)	Pd5	Pd4	Pd7	Pd2	-98.224(14)
Pd5	Pd4	Pd7	Pd5	0.0	Pd5	Pd4	Pd7	Pd6	-41.835(15)
Pd5	Pd4	Pd7	Si4	60.342(14)	Pd5	Pd4	Pd7	Si5	-66.986(12)

Pd5	Pd4	Pd7	C94	154.63(3)	Pd7	Pd4	Pd5	Pd6	43.104(12)
Pd7	Pd4	Pd5	Pd7	0.0	Pd7	Pd4	Pd5	Si4	-50.744(11)
Pd7	Pd4	Pd5	Si5	67.867(13)	Pd7	Pd4	Pd5	C37	-86.898(15)
Pd7	Pd4	Pd5	C81	147.37(3)	Pd5	Pd4	Si5	Pd2	123.87(4)
Pd5	Pd4	Si5	Pd3	168.26(2)	Pd5	Pd4	Si5	Pd5	0.0
Pd5	Pd4	Si5	Pd6	35.48(3)	Pd5	Pd4	Si5	Pd7	72.594(16)
Pd5	Pd4	Si5	C55	-104.47(3)	Si5	Pd4	Pd5	Pd6	-24.76(2)
Si5	Pd4	Pd5	Pd7	-67.87(2)	Si5	Pd4	Pd5	Si4	-118.61(2)
Si5	Pd4	Pd5	Si5	0.000(19)	Si5	Pd4	Pd5	C37	-154.76(2)
Si5	Pd4	Pd5	C81	79.51(3)	C76	Pd4	Pd5	Pd6	169.21(10)
C76	Pd4	Pd5	Pd7	126.11(10)	C76	Pd4	Pd5	Si4	75.36(10)
C76	Pd4	Pd5	Si5	-166.03(10)	C76	Pd4	Pd5	C37	39.21(10)
C76	Pd4	Pd5	C81	-86.52(10)	Pd7	Pd4	Si3	Pd3	-43.16(3)
Pd7	Pd4	Si3	C25	-166.87(4)	Pd7	Pd4	Si3	C31	64.93(5)
Si3	Pd4	Pd7	Pd2	61.87(3)	Si3	Pd4	Pd7	Pd5	160.09(3)
Si3	Pd4	Pd7	Pd6	118.26(3)	Si3	Pd4	Pd7	Si4	-139.57(3)
Si3	Pd4	Pd7	Si5	93.10(3)	Si3	Pd4	Pd7	C94	-45.28(4)
Pd7	Pd4	Si5	Pd2	51.27(3)	Pd7	Pd4	Si5	Pd3	95.67(2)
Pd7	Pd4	Si5	Pd5	-72.594(19)	Pd7	Pd4	Si5	Pd6	-37.11(3)
Pd7	Pd4	Si5	Pd7	0.000(12)	Pd7	Pd4	Si5	C55	-177.06(4)
Si5	Pd4	Pd7	Pd2	-31.24(2)	Si5	Pd4	Pd7	Pd5	66.99(2)
Si5	Pd4	Pd7	Pd6	25.15(2)	Si5	Pd4	Pd7	Si4	127.33(3)
Si5	Pd4	Pd7	Si5	0.00(2)	Si5	Pd4	Pd7	C94	-138.39(4)
C76	Pd4	Pd7	Pd2	178.00(12)	C76	Pd4	Pd7	Pd5	-83.78(12)
C76	Pd4	Pd7	Pd6	-125.61(12)	C76	Pd4	Pd7	Si4	-23.44(12)
C76	Pd4	Pd7	Si5	-150.76(12)	C76	Pd4	Pd7	C94	70.85(13)
Si3	Pd4	Si5	Pd2	-60.31(4)	Si3	Pd4	Si5	Pd3	-15.91(3)
Si3	Pd4	Si5	Pd5	175.82(3)	Si3	Pd4	Si5	Pd6	-148.69(4)
Si3	Pd4	Si5	Pd7	-111.58(3)	Si3	Pd4	Si5	C55	71.36(4)
Si5	Pd4	Si3	Pd3	16.70(3)	Si5	Pd4	Si3	C25	-107.01(5)
Si5	Pd4	Si3	C31	124.80(4)	C76	Pd4	Si3	Pd3	-178.20(10)
C76	Pd4	Si3	C25	58.09(11)	C76	Pd4	Si3	C31	-70.10(10)
C76	Pd4	Si5	Pd2	159.2(2)	C76	Pd4	Si5	Pd3	-156.4(2)
C76	Pd4	Si5	Pd5	35.4(2)	C76	Pd4	Si5	Pd6	70.8(2)
C76	Pd4	Si5	Pd7	107.9(2)	C76	Pd4	Si5	C55	-69.1(2)
Pd4	Pd5	Pd6	Pd2	2.518(14)	Pd4	Pd5	Pd6	Pd7	-42.661(10)
Pd4	Pd5	Pd6	Si1	4.39(4)	Pd4	Pd5	Pd6	Si5	24.6
Pd4	Pd5	Pd6	C89	-171.465(12)	Pd4	Pd5	Pd7	Pd2	91.492(14)
Pd4	Pd5	Pd7	Pd4	0.0	Pd4	Pd5	Pd7	Pd6	132.675(15)

Pd4	Pd5	Pd7	Si4	-102.478(14)	Pd4	Pd5	Pd7	Si5	66.207(11)
Pd4	Pd5	Pd7	C94	-121.38(5)	Pd4	Pd5	Si4	Pd7	60.092(17)
Pd4	Pd5	Si4	C37	-127.37(2)	Pd4	Pd5	Si4	C43	-42.56(4)
Pd4	Pd5	Si4	C49	149.48(4)	Pd4	Pd5	Si5	Pd2	-117.92(5)
Pd4	Pd5	Si5	Pd3	-15.80(3)	Pd4	Pd5	Si5	Pd4	0.0
Pd4	Pd5	Si5	Pd6	-151.49(2)	Pd4	Pd5	Si5	Pd7	-75.304(16)
Pd4	Pd5	Si5	C55	106.90(4)	Pd4	Pd5	C37	Si4	55.98(9)
Pd4	Pd5	C37	C38	-64.92(15)	Pd4	Pd5	C37	C42	178.26(10)
Pd6	Pd5	Pd7	Pd2	-41.183(12)	Pd6	Pd5	Pd7	Pd4	-132.675(14)
Pd6	Pd5	Pd7	Pd6	-0.0	Pd6	Pd5	Pd7	Si4	124.847(14)
Pd6	Pd5	Pd7	Si5	-66.468(11)	Pd6	Pd5	Pd7	C94	105.94(5)
Pd7	Pd5	Pd6	Pd2	45.180(12)	Pd7	Pd5	Pd6	Pd7	0.0
Pd7	Pd5	Pd6	Si1	47.05(3)	Pd7	Pd5	Pd6	Si5	67.256(12)
Pd7	Pd5	Pd6	C89	-128.804(15)	Pd6	Pd5	Si4	Pd7	-46.96(2)
Pd6	Pd5	Si4	C37	125.58(2)	Pd6	Pd5	Si4	C43	-149.61(4)
Pd6	Pd5	Si4	C49	42.43(4)	Si4	Pd5	Pd6	Pd2	85.53(2)
Si4	Pd5	Pd6	Pd7	40.352(18)	Si4	Pd5	Pd6	Si1	87.40(4)
Si4	Pd5	Pd6	Si5	107.61(2)	Si4	Pd5	Pd6	C89	-88.45(2)
Pd6	Pd5	Si5	Pd2	33.57(3)	Pd6	Pd5	Si5	Pd3	135.69(5)
Pd6	Pd5	Si5	Pd4	151.49(2)	Pd6	Pd5	Si5	Pd6	-0.0
Pd6	Pd5	Si5	Pd7	76.185(16)	Pd6	Pd5	Si5	C55	-101.62(4)
Si5	Pd5	Pd6	Pd2	-22.08(2)	Si5	Pd5	Pd6	Pd7	-67.26(2)
Si5	Pd5	Pd6	Si1	-20.21(3)	Si5	Pd5	Pd6	Si5	-0.000(19)
Si5	Pd5	Pd6	C89	163.94(2)	Pd6	Pd5	C37	Si4	-67.52(10)
Pd6	Pd5	C37	C38	171.58(10)	Pd6	Pd5	C37	C42	54.77(15)
C37	Pd5	Pd6	Pd2	126.40(8)	C37	Pd5	Pd6	Pd7	81.22(8)
C37	Pd5	Pd6	Si1	128.27(9)	C37	Pd5	Pd6	Si5	148.47(8)
C37	Pd5	Pd6	C89	-47.59(8)	C81	Pd5	Pd6	Pd2	-118.59(11)
C81	Pd5	Pd6	Pd7	-163.77(11)	C81	Pd5	Pd6	Si1	-116.72(11)
C81	Pd5	Pd6	Si5	-96.52(11)	C81	Pd5	Pd6	C89	67.42(11)
Pd7	Pd5	Si4	Pd7	0.0	Pd7	Pd5	Si4	C37	172.54(3)
Pd7	Pd5	Si4	C43	-102.65(5)	Pd7	Pd5	Si4	C49	89.38(4)
Si4	Pd5	Pd7	Pd2	-166.03(3)	Si4	Pd5	Pd7	Pd4	102.48(3)
Si4	Pd5	Pd7	Pd6	-124.85(3)	Si4	Pd5	Pd7	Si4	-0.00(2)
Si4	Pd5	Pd7	Si5	168.68(3)	Si4	Pd5	Pd7	C94	-18.90(5)
Pd7	Pd5	Si5	Pd2	-42.61(3)	Pd7	Pd5	Si5	Pd3	59.50(4)
Pd7	Pd5	Si5	Pd4	75.304(17)	Pd7	Pd5	Si5	Pd6	-76.185(16)
Pd7	Pd5	Si5	Pd7	-0.0	Pd7	Pd5	Si5	C55	-177.80(5)
Si5	Pd5	Pd7	Pd2	25.29(2)	Si5	Pd5	Pd7	Pd4	-66.21(2)

Si5	Pd5	Pd7	Pd6	66.47(2)	Si5	Pd5	Pd7	Si4	-168.68(3)
Si5	Pd5	Pd7	Si5	0.00(2)	Si5	Pd5	Pd7	C94	172.41(5)
Pd7	Pd5	C37	Si4	-5.88(9)	Pd7	Pd5	C37	C38	-126.78(13)
Pd7	Pd5	C37	C42	116.41(12)	C37	Pd5	Pd7	Pd2	-160.75(8)
C37	Pd5	Pd7	Pd4	107.75(8)	C37	Pd5	Pd7	Pd6	-119.57(8)
C37	Pd5	Pd7	Si4	5.28(8)	C37	Pd5	Pd7	Si5	173.96(8)
C37	Pd5	Pd7	C94	-13.63(9)	C81	Pd5	Pd7	Pd2	-5.6(2)
C81	Pd5	Pd7	Pd4	-97.1(2)	C81	Pd5	Pd7	Pd6	35.6(2)
C81	Pd5	Pd7	Si4	160.5(2)	C81	Pd5	Pd7	Si5	-30.9(2)
C81	Pd5	Pd7	C94	141.6(2)	Si4	Pd5	Si5	Pd2	-51.93(5)
Si4	Pd5	Si5	Pd3	50.18(5)	Si4	Pd5	Si5	Pd4	65.99(3)
Si4	Pd5	Si5	Pd6	-85.50(3)	Si4	Pd5	Si5	Pd7	-9.32(3)
Si4	Pd5	Si5	C55	172.88(3)	Si5	Pd5	Si4	Pd7	10.00(3)
Si5	Pd5	Si4	C37	-177.47(3)	Si5	Pd5	Si4	C43	-92.66(5)
Si5	Pd5	Si4	C49	99.38(5)	Si4	Pd5	C37	Si4	0.00(3)
Si4	Pd5	C37	C38	-120.90(19)	Si4	Pd5	C37	C42	122.29(18)
C37	Pd5	Si4	Pd7	-172.54(11)	C37	Pd5	Si4	C37	0.00(11)
C37	Pd5	Si4	C43	84.81(12)	C37	Pd5	Si4	C49	-83.15(12)
C81	Pd5	Si4	Pd7	-158.6(3)	C81	Pd5	Si4	C37	14.0(3)
C81	Pd5	Si4	C43	98.8(3)	C81	Pd5	Si4	C49	-69.2(3)
Si5	Pd5	C37	Si4	5.3(2)	Si5	Pd5	C37	C38	-115.63(15)
Si5	Pd5	C37	C42	127.56(13)	C37	Pd5	Si5	Pd2	-55.83(18)
C37	Pd5	Si5	Pd3	46.28(18)	C37	Pd5	Si5	Pd4	62.09(17)
C37	Pd5	Si5	Pd6	-89.40(17)	C37	Pd5	Si5	Pd7	-13.22(18)
C37	Pd5	Si5	C55	168.98(17)	C81	Pd5	Si5	Pd2	123.05(13)
C81	Pd5	Si5	Pd3	-134.84(13)	C81	Pd5	Si5	Pd4	-119.04(12)
C81	Pd5	Si5	Pd6	89.47(12)	C81	Pd5	Si5	Pd7	165.66(12)
C81	Pd5	Si5	C55	-12.14(13)	C81	Pd5	C37	Si4	-173.54(14)
C81	Pd5	C37	C38	65.6(2)	C81	Pd5	C37	C42	-51.26(19)
Pd2	Pd6	Pd7	Pd2	0.0	Pd2	Pd6	Pd7	Pd4	-87.077(15)
Pd2	Pd6	Pd7	Pd5	-128.578(12)	Pd2	Pd6	Pd7	Si4	-176.929(14)
Pd2	Pd6	Pd7	Si5	-62.076(11)	Pd2	Pd6	Pd7	C94	77.80(2)
Pd2	Pd6	Si1	Pd1	-5.82(4)	Pd2	Pd6	Si1	Pd2	0.0
Pd2	Pd6	Si1	C1	123.25(4)	Pd2	Pd6	Si1	C7	-128.45(4)
Pd2	Pd6	Si5	Pd2	0.0	Pd2	Pd6	Si5	Pd3	16.84(3)
Pd2	Pd6	Si5	Pd4	117.23(4)	Pd2	Pd6	Si5	Pd5	152.47(3)
Pd2	Pd6	Si5	Pd7	80.410(17)	Pd2	Pd6	Si5	C55	-101.34(4)
Pd5	Pd6	Pd7	Pd2	128.578(13)	Pd5	Pd6	Pd7	Pd4	41.502(14)
Pd5	Pd6	Pd7	Pd5	0.0	Pd5	Pd6	Pd7	Si4	-48.351(13)

Pd5	Pd6	Pd7	Si5	66.502(11)	Pd5	Pd6	Pd7	C94	-153.62(3)
Pd5	Pd6	Si1	Pd1	-8.10(10)	Pd5	Pd6	Si1	Pd2	-2.28(6)
Pd5	Pd6	Si1	C1	120.96(5)	Pd5	Pd6	Si1	C7	-130.74(4)
Pd5	Pd6	Si5	Pd2	-152.47(3)	Pd5	Pd6	Si5	Pd3	-135.62(5)
Pd5	Pd6	Si5	Pd4	-35.24(3)	Pd5	Pd6	Si5	Pd5	0.0
Pd5	Pd6	Si5	Pd7	-72.057(18)	Pd5	Pd6	Si5	C55	106.19(3)
Pd7	Pd6	Si1	Pd1	31.30(5)	Pd7	Pd6	Si1	Pd2	37.12(2)
Pd7	Pd6	Si1	C1	160.36(2)	Pd7	Pd6	Si1	C7	-91.34(3)
Si1	Pd6	Pd7	Pd2	-33.03(2)	Si1	Pd6	Pd7	Pd4	-120.11(2)
Si1	Pd6	Pd7	Pd5	-161.61(2)	Si1	Pd6	Pd7	Si4	150.04(2)
Si1	Pd6	Pd7	Si5	-95.11(2)	Si1	Pd6	Pd7	C94	44.77(3)
Pd7	Pd6	Si5	Pd2	-80.410(19)	Pd7	Pd6	Si5	Pd3	-63.57(4)
Pd7	Pd6	Si5	Pd4	36.82(3)	Pd7	Pd6	Si5	Pd5	72.06(2)
Pd7	Pd6	Si5	Pd7	0.000(12)	Pd7	Pd6	Si5	C55	178.25(4)
Si5	Pd6	Pd7	Pd2	62.08(2)	Si5	Pd6	Pd7	Pd4	-25.00(2)
Si5	Pd6	Pd7	Pd5	-66.50(2)	Si5	Pd6	Pd7	Si4	-114.85(3)
Si5	Pd6	Pd7	Si5	0.00(2)	Si5	Pd6	Pd7	C94	139.88(3)
C89	Pd6	Pd7	Pd2	-154.09(11)	C89	Pd6	Pd7	Pd4	118.83(11)
C89	Pd6	Pd7	Pd5	77.33(11)	C89	Pd6	Pd7	Si4	28.98(11)
C89	Pd6	Pd7	Si5	143.83(11)	C89	Pd6	Pd7	C94	-76.29(12)
Si1	Pd6	Si5	Pd2	19.05(3)	Si1	Pd6	Si5	Pd3	35.90(5)
Si1	Pd6	Si5	Pd4	136.28(4)	Si1	Pd6	Si5	Pd5	171.52(2)
Si1	Pd6	Si5	Pd7	99.46(3)	Si1	Pd6	Si5	C55	-82.29(4)
Si5	Pd6	Si1	Pd1	-24.71(6)	Si5	Pd6	Si1	Pd2	-18.90(3)
Si5	Pd6	Si1	C1	104.35(3)	Si5	Pd6	Si1	C7	-147.35(3)
C89	Pd6	Si1	Pd1	167.72(11)	C89	Pd6	Si1	Pd2	173.54(10)
C89	Pd6	Si1	C1	-63.21(10)	C89	Pd6	Si1	C7	45.09(10)
C89	Pd6	Si5	Pd2	173.3(2)	C89	Pd6	Si5	Pd3	-169.9(2)
C89	Pd6	Si5	Pd4	-69.5(2)	C89	Pd6	Si5	Pd5	-34.3(2)
C89	Pd6	Si5	Pd7	-106.3(2)	C89	Pd6	Si5	C55	71.9(2)
Pd2	Pd7	Si4	Pd5	40.32(7)	Pd2	Pd7	Si4	C37	32.32(10)
Pd2	Pd7	Si4	C43	162.35(4)	Pd2	Pd7	Si4	C49	-83.80(7)
Pd2	Pd7	Si5	Pd2	0.0	Pd2	Pd7	Si5	Pd3	69.90(2)
Pd2	Pd7	Si5	Pd4	138.12(3)	Pd2	Pd7	Si5	Pd5	-147.02(3)
Pd2	Pd7	Si5	Pd6	-71.53(2)	Pd4	Pd7	Si4	Pd5	-58.067(13)
Pd4	Pd7	Si4	C37	-66.07(5)	Pd4	Pd7	Si4	C43	63.96(3)
Pd4	Pd7	Si4	C49	177.81(3)	Pd4	Pd7	Si5	Pd2	-138.12(3)
Pd4	Pd7	Si5	Pd3	-68.22(2)	Pd4	Pd7	Si5	Pd4	0.000(12)
Pd4	Pd7	Si5	Pd5	74.86(2)	Pd4	Pd7	Si5	Pd6	150.35(3)

Pd5	Pd7	Si4	Pd5	-0.0	Pd5	Pd7	Si4	C37	-8.00(4)
Pd5	Pd7	Si4	C43	122.03(4)	Pd5	Pd7	Si4	C49	-124.12(4)
Pd5	Pd7	Si5	Pd2	147.02(3)	Pd5	Pd7	Si5	Pd3	-143.08(3)
Pd5	Pd7	Si5	Pd4	-74.861(18)	Pd5	Pd7	Si5	Pd5	-0.0
Pd5	Pd7	Si5	Pd6	75.490(17)	Pd6	Pd7	Si4	Pd5	47.268(16)
Pd6	Pd7	Si4	C37	39.26(5)	Pd6	Pd7	Si4	C43	169.29(3)
Pd6	Pd7	Si4	C49	-76.85(3)	Pd6	Pd7	Si5	Pd2	71.53(2)
Pd6	Pd7	Si5	Pd3	141.43(3)	Pd6	Pd7	Si5	Pd4	-150.35(3)
Pd6	Pd7	Si5	Pd5	-75.490(19)	Pd6	Pd7	Si5	Pd6	-0.000(12)
Si4	Pd7	Si5	Pd2	158.36(3)	Si4	Pd7	Si5	Pd3	-131.75(3)
Si4	Pd7	Si5	Pd4	-63.52(3)	Si4	Pd7	Si5	Pd5	11.34(3)
Si4	Pd7	Si5	Pd6	86.83(3)	Si5	Pd7	Si4	Pd5	-10.55(3)
Si5	Pd7	Si4	C37	-18.55(6)	Si5	Pd7	Si4	C43	111.48(4)
Si5	Pd7	Si4	C49	-134.67(3)	C94	Pd7	Si4	Pd5	172.74(9)
C94	Pd7	Si4	C37	164.74(10)	C94	Pd7	Si4	C43	-65.23(10)
C94	Pd7	Si4	C49	48.62(10)	C94	Pd7	Si5	Pd2	-27.62(18)
C94	Pd7	Si5	Pd3	42.28(18)	C94	Pd7	Si5	Pd4	110.50(18)
C94	Pd7	Si5	Pd5	-174.64(17)	C94	Pd7	Si5	Pd6	-99.15(18)
Pd1	Si1	C1	C2	36.4(2)	Pd1	Si1	C1	C6	-147.79(19)
Pd1	Si1	C7	C8	90.33(19)	Pd1	Si1	C7	C12	-90.14(19)
Pd2	Si1	C1	C2	-39.4(3)	Pd2	Si1	C1	C6	136.41(17)
Pd2	Si1	C7	C8	163.11(13)	Pd2	Si1	C7	C12	-17.4(3)
Pd6	Si1	C1	C2	-110.3(2)	Pd6	Si1	C1	C6	65.5(2)
Pd6	Si1	C7	C8	-125.24(19)	Pd6	Si1	C7	C12	54.29(19)
C1	Si1	C7	C8	-22.4(2)	C1	Si1	C7	C12	157.13(19)
C7	Si1	C1	C2	145.7(2)	C7	Si1	C1	C6	-38.5(3)
Pd1	Si2	C13	C14	-106.96(19)	Pd1	Si2	C13	C18	70.4(2)
Pd1	Si2	C19	C20	-113.0(2)	Pd1	Si2	C19	C24	71.2(2)
Pd2	Si2	C13	C14	-35.7(3)	Pd2	Si2	C13	C18	141.67(18)
Pd2	Si2	C19	C20	167.14(16)	Pd2	Si2	C19	C24	-8.7(3)
Pd3	Si2	C13	C14	34.7(2)	Pd3	Si2	C13	C18	-148.0(2)
Pd3	Si2	C19	C20	101.5(2)	Pd3	Si2	C19	C24	-74.3(2)
C13	Si2	C19	C20	-5.0(3)	C13	Si2	C19	C24	179.25(19)
C19	Si2	C13	C14	136.8(2)	C19	Si2	C13	C18	-45.8(3)
Pd3	Si3	C25	C26	4.2(3)	Pd3	Si3	C25	C30	-170.00(17)
Pd3	Si3	C31	C32	-159.1(2)	Pd3	Si3	C31	C36	25.0(3)
Pd4	Si3	C25	C26	96.8(2)	Pd4	Si3	C25	C30	-77.3(3)
Pd4	Si3	C31	C32	117.2(3)	Pd4	Si3	C31	C36	-58.6(3)
C25	Si3	C31	C32	-15.1(4)	C25	Si3	C31	C36	169.0(2)

C31	Si3	C25	C26	-133.4(2)	C31	Si3	C25	C30	52.4(3)
Pd5	Si4	C37	Pd5	0.0	Pd5	Si4	C37	C38	89.7(2)
Pd5	Si4	C37	C42	-84.8(2)	Pd5	Si4	C43	C44	-103.8(2)
Pd5	Si4	C43	C48	78.3(2)	Pd5	Si4	C49	C50	-20.6(2)
Pd5	Si4	C49	C54	159.52(14)	Pd7	Si4	C37	Pd5	8.38(13)
Pd7	Si4	C37	C38	98.1(2)	Pd7	Si4	C37	C42	-76.4(2)
Pd7	Si4	C43	C44	179.17(16)	Pd7	Si4	C43	C48	1.3(2)
Pd7	Si4	C49	C50	49.1(2)	Pd7	Si4	C49	C54	-130.78(18)
C37	Si4	C43	C44	-40.6(2)	C37	Si4	C43	C48	141.5(2)
C43	Si4	C37	Pd5	-125.63(11)	C43	Si4	C37	C38	-35.9(3)
C43	Si4	C37	C42	149.6(2)	C37	Si4	C49	C50	-82.7(2)
C37	Si4	C49	C54	97.4(2)	C49	Si4	C37	Pd5	125.25(12)
C49	Si4	C37	C38	-145.0(2)	C49	Si4	C37	C42	40.4(3)
C43	Si4	C49	C50	169.29(19)	C43	Si4	C49	C54	-10.6(2)
C49	Si4	C43	C44	66.2(2)	C49	Si4	C43	C48	-111.7(2)
Pd2	Si5	C55	C56	123.74(19)	Pd2	Si5	C55	C60	-49.9(2)
Pd3	Si5	C55	C56	53.0(2)	Pd3	Si5	C55	C60	-120.61(19)
Pd4	Si5	C55	C56	-16.3(2)	Pd4	Si5	C55	C60	170.05(16)
Pd5	Si5	C55	C56	-90.9(2)	Pd5	Si5	C55	C60	95.5(2)
Pd6	Si5	C55	C56	-165.03(18)	Pd6	Si5	C55	C60	21.4(2)
Si1	C1	C2	C3	175.9(2)	Si1	C1	C6	C5	-176.7(2)
C2	C1	C6	C5	-0.7(5)	C6	C1	C2	C3	-0.1(5)
C1	C2	C3	C4	0.8(7)	C2	C3	C4	C5	-0.8(8)
C3	C4	C5	C6	-0.0(8)	C4	C5	C6	C1	0.8(6)
Si1	C7	C8	C9	179.73(19)	Si1	C7	C12	C11	179.67(18)
C8	C7	C12	C11	-0.8(4)	C12	C7	C8	C9	0.2(4)
C7	C8	C9	C10	0.1(5)	C8	C9	C10	C11	0.2(5)
C9	C10	C11	C12	-0.8(5)	C10	C11	C12	C7	1.1(5)
Si2	C13	C14	C15	179.7(2)	Si2	C13	C18	C17	-178.7(2)
C14	C13	C18	C17	-1.3(5)	C18	C13	C14	C15	2.1(5)
C13	C14	C15	C16	-1.8(6)	C14	C15	C16	C17	0.5(7)
C15	C16	C17	C18	0.3(7)	C16	C17	C18	C13	0.1(6)
Si2	C19	C20	C21	-174.1(2)	Si2	C19	C24	C23	174.3(2)
C20	C19	C24	C23	-1.9(5)	C24	C19	C20	C21	1.8(5)
C19	C20	C21	C22	-0.3(7)	C20	C21	C22	C23	-1.3(7)
C21	C22	C23	C24	1.2(8)	C22	C23	C24	C19	0.5(8)
Si3	C25	C26	C27	-174.6(3)	Si3	C25	C30	C29	173.8(2)
C26	C25	C30	C29	-0.6(6)	C30	C25	C26	C27	-0.1(6)
C25	C26	C27	C28	0.7(8)	C26	C27	C28	C29	-0.6(8)

C27	C28	C29	C30	-0.0(8)	C28	C29	C30	C25	0.7(7)
Si3	C31	C32	C33	-173.2(3)	Si3	C31	C36	C35	175.2(3)
C32	C31	C36	C35	-1.1(6)	C36	C31	C32	C33	2.7(6)
C31	C32	C33	C34	-2.9(8)	C32	C33	C34	C35	1.2(8)
C33	C34	C35	C36	0.4(8)	C34	C35	C36	C31	-0.4(8)
Pd5	C37	C38	C39	-101.0(3)	Pd5	C37	C42	C41	103.1(3)
Si4	C37	C38	C39	-177.8(2)	Si4	C37	C42	C41	177.5(2)
C38	C37	C42	C41	2.6(5)	C42	C37	C38	C39	-2.9(5)
C37	C38	C39	C40	1.3(6)	C38	C39	C40	C41	0.9(7)
C39	C40	C41	C42	-1.1(7)	C40	C41	C42	C37	-0.7(6)
Si4	C43	C44	C45	-177.16(19)	Si4	C43	C48	C47	177.66(19)
C44	C43	C48	C47	-0.3(4)	C48	C43	C44	C45	0.8(4)
C43	C44	C45	C46	-0.3(5)	C44	C45	C46	C47	-0.8(5)
C45	C46	C47	C48	1.2(5)	C46	C47	C48	C43	-0.7(5)
Si4	C49	C50	C51	178.31(18)	Si4	C49	C54	C53	-178.95(19)
C50	C49	C54	C53	1.1(4)	C54	C49	C50	C51	-1.8(4)
C49	C50	C51	C52	1.0(5)	C50	C51	C52	C53	0.6(5)
C51	C52	C53	C54	-1.2(5)	C52	C53	C54	C49	0.3(5)
Si5	C55	C56	C57	-173.0(2)	Si5	C55	C60	C59	173.2(2)
C56	C55	C60	C59	-0.8(5)	C60	C55	C56	C57	0.9(5)
C55	C56	C57	C58	-1.2(7)	C56	C57	C58	C59	1.5(8)
C57	C58	C59	C60	-1.4(8)	C58	C59	C60	C55	1.1(7)
N5	C82	C83	C87	-100.1(10)	N5	C82	C84	C87	103.2(7)
N5	C82	C84	C88	-89.2(13)	N5	C82	C85	C86	-155.8(19)
N5	C82	C86	C85	26(3)	N5	C82	C87	C83	87.4(12)
N5	C82	C87	C84	-104.7(6)	N5	C82	C88	C84	101.3(8)
C83	C82	C84	C87	-6.2(7)	C83	C82	C84	C88	161.4(11)
C84	C82	C83	C87	12.4(14)	C83	C82	C85	C86	-51(2)
C85	C82	C83	C87	157.2(10)	C83	C82	C86	C85	131(3)
C86	C82	C83	C87	144.4(13)	C83	C82	C87	C83	0.0(10)
C83	C82	C87	C84	167.9(16)	C87	C82	C83	C87	0.0(13)
C83	C82	C88	C84	-30.5(16)	C88	C82	C83	C87	31.8(18)
C84	C82	C85	C86	79(3)	C85	C82	C84	C87	-134.5(16)
C85	C82	C84	C88	33(2)	C84	C82	C86	C85	-115(3)
C86	C82	C84	C87	-113.5(18)	C86	C82	C84	C88	54(2)
C84	C82	C87	C83	-167.9(16)	C84	C82	C87	C84	0.0(9)
C87	C82	C84	C87	-0.0(6)	C87	C82	C84	C88	167.6(15)
C84	C82	C88	C84	-0.0(15)	C88	C82	C84	C87	-167.6(16)
C88	C82	C84	C88	-0.0(7)	C85	C82	C87	C83	-29.1(18)

C85	C82	C87	C84	138.8(11)	C87	C82	C85	C86	-37(2)
C85	C82	C88	C84	-156.6(9)	C88	C82	C85	C86	99(2)
C86	C82	C87	C83	-40.0(17)	C86	C82	C87	C84	128.0(11)
C87	C82	C86	C85	149(2)	C86	C82	C88	C84	-139.9(12)
C88	C82	C86	C85	-84(3)	C87	C82	C88	C84	-13.7(11)
C88	C82	C87	C83	-159.3(11)	C88	C82	C87	C84	8.6(7)
C82	C83	C87	C82	-0.0(3)	C82	C83	C87	C84	-13.5(18)
C82	C84	C87	C82	-0.0(4)	C82	C84	C87	C83	18(2)
C82	C84	C88	C82	-0.0(3)	C87	C84	C88	C82	12.3(16)
C88	C84	C87	C82	-15(2)	C88	C84	C87	C83	3(4)
C82	C85	C86	C82	0.0(5)	C100	C99	$C101^{1}$	$C100^{1}$	-0.3(8)
C100	C99	$C101^{1}$	$C102^{1}$	177.9(5)	$C101^{1}$	C99	C100	C101	0.3(9)
C99	C100	C101	$C99^{1}$	-0.3(9)	C99	C100	C101	C102	177.7(6)

Symmetry Operators:

(1) -X+2,-Y+1,-Z+1

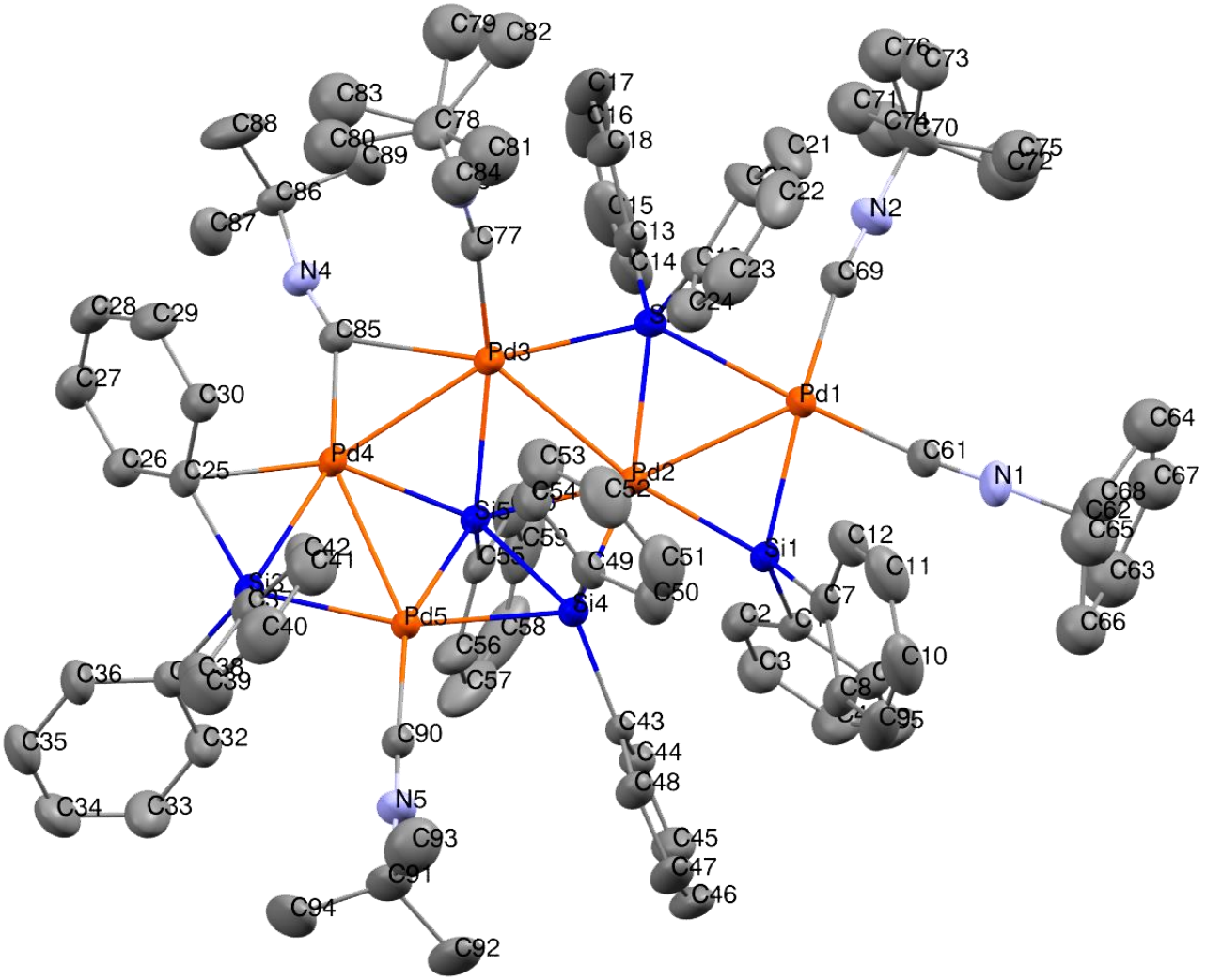


Figure S12. ORTEP drawing of **7** (50% probability of the thermal ellipsoids). Hydrogen atoms were omitted for clarity. Three ^{t}Bu groups were found to be disordered. The site occupancy factor for the carbons derived from the methyl groups on these three ^{t}Bu groups was defined as follows: 0.5 for C63, C64, C65, C66, C67, C68, C71, C72, C73, C74, C75 and C76, 0.7 for C79, C80 and C81, 0.3 for C82, C83 and C84, respectively. One diethylether molecule is included in the unit cell, and the site occupancy factor for all atoms derived from this diethylether molecule was defined to be 0.8. (Solvated diethyl ether molecule was omitted for clarity)

Table S14-1. Crystal data and structure refinement for **7**.

Empirical Formula	$C_{95}H_{113}N_7Pd_7Si_5$
Formula Weight	2238.21
Crystal Color, Habit	orange, platelet
Crystal Dimensions	0.100 X 0.100 X 0.010 mm
Crystal System	triclinic
Lattice Type	Primitive
Lattice Parameters	a = 14.0947(2) Å
	b = 16.6487(3) Å
	c = 23.8355(3) Å
	α = 88.2080(13) º
	β = 81.2880(13) º
	γ = 81.8700(13) º
	V = 5472.83(15) Å^3
Space Group	P-1 (#2)
Z value	2
D_{calc}	1.358 g/cm^3
F_{000}	2248.00
μ(MoKα)	12.203 cm^{-1}
Diffractometer	Saturn724
Radiation	MoKα (λ = 0.71075 Å)
	graphite monochromated
Temperature	-160.0ºC
Detector Aperture	72.8 x 72.8 mm
Data Images	1440 exposures
ω oscillation Range (χ=45.0, ϕ=0.0)	-70.0 - 110.0º
Exposure Rate	48.0 sec./º
Detector Swing Angle	20.00º
ω oscillation Range (χ=45.0, ϕ=90.0)	-70.0 - 110.0º
Exposure Rate	48.0 sec./º
Detector Swing Angle	20.00º
ω oscillation Range (χ=45.0, ϕ=180.0)	-70.0 - 110.0º
Exposure Rate	48.0 sec./º
Detector Swing Angle	20.00º
ω oscillation Range (χ=45.0, ϕ=270.0)	-70.0 - 110.0º
Exposure Rate	48.0 sec./º
Detector Swing Angle	20.00º
Detector Position	45.00 mm
Pixel Size	0.035 mm

$2\theta_{max}$	62.5°
No. of Reflections Measured	Total: 105168
	Unique: 32072 (R_{int} = 0.0332)
Corrections	Lorentz-polarization
	Absorption
	(trans. factors: 0.943 - 0.988)
Structure Solution	Direct Methods (SHELXT Version 2014/5)
Refinement	Full-matrix least-squares on F^2
Function Minimized	Σ w $(Fo^2 - Fc^2)^2$
Least Squares Weights	$w = 1/ [\sigma^2(Fo^2) + (0.0481 \cdot P)^2$
	$+ 2.8375 \cdot P]$
	where $P = (Max(Fo^2,0) + 2Fc^2)/3$
$2\theta_{max}$ cutoff	62.4°
Anomalous Dispersion	All non-hydrogen atoms
No. Observations (All reflections)	32072
No. Variables	1040
Reflection/Parameter Ratio	30.84
Residuals: R1 (I>2.00σ(I))	0.0365
Residuals: R (All reflections)	0.0620
Residuals: wR2 (All reflections)	0.0954
Goodness of Fit Indicator	0.983
Max Shift/Error in Final Cycle	0.002
Maximum peak in Final Diff. Map	1.00 $e^-/Å^3$
Minimum peak in Final Diff. Map	-0.54 $e^-/Å^3$

Table S14-2. Atomic coordinates and B_{iso}/B_{eq}

atom	x	y	z	B_{eq}	occ
Pd1	0.81341(2)	0.38329(2)	0.41589(2)	2.032(4)	1
Pd2	0.81151(2)	0.32510(2)	0.29346(2)	1.783(4)	1
Pd3	0.77025(2)	0.44981(2)	0.19596(2)	1.962(4)	1
Pd4	0.79490(2)	0.37140(2)	0.07979(2)	1.923(4)	1
Pd5	0.79337(2)	0.20847(2)	0.12781(2)	1.857(4)	1
Si1	0.83094(6)	0.24142(5)	0.38511(4)	1.944(12)	1
Si2	0.76834(6)	0.46882(5)	0.31236(4)	2.122(13)	1
Si3	0.75996(6)	0.25246(5)	0.01835(4)	2.067(12)	1
Si4	0.77434(6)	0.20193(5)	0.24908(4)	1.911(12)	1
Si5	0.85407(6)	0.30919(4)	0.17779(3)	1.760(11)	1
O1	0.4226(3)	-0.0690(3)	0.2732(2)	6.03(9)	0.800000
N1	0.8020(2)	0.28464(19)	0.55358(13)	3.25(5)	1
N2	0.8335(2)	0.55566(18)	0.47059(14)	3.22(5)	1
N3	0.5873(2)	0.59596(17)	0.18825(13)	3.13(5)	1
N4	0.8325(2)	0.55301(16)	0.06101(13)	2.63(4)	1
N5	0.7411(2)	0.02904(17)	0.11868(14)	3.03(5)	1
C1	0.9595(2)	0.18589(17)	0.39915(14)	2.23(5)	1
C2	1.0436(3)	0.2053(2)	0.35576(16)	2.89(5)	1
C3	1.1409(3)	0.1688(3)	0.36446(19)	3.78(7)	1
C4	1.1561(3)	0.1127(3)	0.4174(2)	4.19(8)	1
C5	1.0757(3)	0.0922(2)	0.4611(2)	4.05(7)	1
C6	0.9784(3)	0.1288(2)	0.45223(16)	3.02(6)	1
C7	0.7333(3)	0.18010(19)	0.43098(14)	2.51(5)	1
C8	0.7468(3)	0.0921(2)	0.43930(16)	3.23(6)	1
C9	0.6682(4)	0.0510(3)	0.46978(19)	4.53(9)	1
C10	0.5765(4)	0.0966(3)	0.4919(2)	5.08(10)	1
C11	0.5609(3)	0.1822(3)	0.48406(19)	4.52(9)	1
C12	0.6381(3)	0.2246(2)	0.45375(16)	3.35(6)	1
C13	0.8426(3)	0.55915(19)	0.29704(15)	3.03(6)	1
C14	0.9459(3)	0.5413(3)	0.29235(18)	4.00(7)	1
C15	1.0055(5)	0.6037(4)	0.2750(2)	6.17(13)	1
C16	0.9596(6)	0.6868(4)	0.2646(2)	7.67(19)	1
C17	0.8578(6)	0.7065(3)	0.2708(2)	6.45(15)	1
C18	0.7998(4)	0.6434(2)	0.28564(19)	4.58(9)	1
C19	0.6348(3)	0.5045(2)	0.35346(15)	2.90(6)	1
C20	0.6042(3)	0.5730(3)	0.39262(19)	4.36(8)	1
C21	0.5080(4)	0.5881(3)	0.4274(2)	5.80(12)	1

C22	0.4401(4)	0.5370(4)	0.4232(2)	5.87(12)	1
C23	0.4671(3)	0.4707(3)	0.3845(2)	5.25(10)	1
C24	0.5637(3)	0.4545(3)	0.35002(19)	3.83(7)	1
C25	0.7459(2)	0.36453(18)	-0.02393(13)	2.30(5)	1
C26	0.8223(3)	0.3902(2)	-0.07161(16)	3.05(6)	1
C27	0.8135(3)	0.4709(2)	-0.10187(19)	4.06(7)	1
C28	0.7289(3)	0.5290(2)	-0.08526(19)	4.07(8)	1
C29	0.6532(3)	0.5073(2)	-0.03779(19)	3.86(7)	1
C30	0.6621(3)	0.4263(2)	-0.00733(16)	2.93(5)	1
C31	0.8493(2)	0.18618(19)	-0.04460(14)	2.53(5)	1
C32	0.9284(3)	0.1283(2)	-0.02646(17)	3.43(6)	1
C33	0.9916(3)	0.0757(3)	-0.0710(2)	4.78(9)	1
C34	0.9773(4)	0.0820(3)	-0.1350(2)	4.70(9)	1
C35	0.9000(3)	0.1395(3)	-0.15466(18)	4.23(8)	1
C36	0.8370(3)	0.1916(2)	-0.11058(16)	3.50(6)	1
C37	0.6312(2)	0.22236(19)	0.02319(14)	2.53(5)	1
C38	0.6111(3)	0.1609(2)	-0.01316(18)	3.50(6)	1
C39	0.5172(3)	0.1364(3)	-0.0039(2)	4.58(8)	1
C40	0.4402(3)	0.1738(3)	0.0415(2)	4.74(9)	1
C41	0.4577(3)	0.2343(3)	0.0771(2)	4.46(8)	1
C42	0.5521(3)	0.2575(2)	0.06874(17)	3.47(6)	1
C43	0.8278(3)	0.09067(17)	0.27643(13)	2.40(5)	1
C44	0.9288(3)	0.07096(19)	0.28372(15)	2.90(5)	1
C45	0.9713(3)	-0.0097(2)	0.30523(19)	4.09(7)	1
C46	0.9120(4)	-0.0723(2)	0.3196(2)	4.78(9)	1
C47	0.8137(4)	-0.0548(2)	0.31045(19)	4.38(8)	1
C48	0.7719(3)	0.0250(2)	0.28841(16)	3.21(6)	1
C49	0.6320(2)	0.2246(2)	0.26743(14)	2.49(5)	1
C50	0.5727(3)	0.1820(2)	0.31633(17)	3.35(6)	1
C51	0.4694(3)	0.2038(3)	0.3276(2)	4.62(9)	1
C52	0.4210(3)	0.2688(3)	0.2911(2)	4.93(9)	1
C53	0.4771(3)	0.3132(3)	0.2433(2)	4.28(8)	1
C54	0.5812(3)	0.2917(2)	0.23161(17)	3.18(6)	1
C55	0.9953(2)	0.2815(2)	0.17325(14)	2.50(5)	1
C56	1.0479(3)	0.2043(2)	0.15167(19)	3.88(7)	1
C57	1.1497(3)	0.1811(4)	0.1538(3)	6.13(13)	1
C58	1.2005(3)	0.2343(5)	0.1775(3)	6.98(17)	1
C59	1.1514(3)	0.3118(4)	0.1977(2)	5.66(12)	1
C60	1.0498(3)	0.3352(3)	0.19515(17)	3.52(7)	1

C61	0.8119(2)	0.3174(2)	0.50229(14)	2.58(5)	1
C62	0.7820(3)	0.2405(3)	0.61803(17)	4.47(8)	1
C63	0.8831(9)	0.1919(7)	0.6294(6)	6.3(2)	1/2
C64	0.7759(8)	0.3217(7)	0.6670(5)	5.42(19)	1/2
C65	0.6901(9)	0.2115(8)	0.6239(6)	5.8(2)	1/2
C66	0.8240(7)	0.1393(6)	0.6096(4)	4.70(16)	1/2
C67	0.8241(8)	0.2712(7)	0.6663(5)	5.18(18)	1/2
C68	0.6612(6)	0.2435(6)	0.6348(4)	3.65(14)	1/2
C69	0.8240(3)	0.4978(2)	0.44578(15)	2.75(5)	1
C70	0.8455(3)	0.6294(2)	0.5024(2)	3.95(7)	1
C71	0.9289(9)	0.6715(7)	0.4570(6)	5.3(2)	1/2
C72	0.8892(11)	0.5928(9)	0.5669(7)	7.1(3)	1/2
C73	0.7426(7)	0.6835(6)	0.5168(5)	4.52(17)	1/2
C74	0.9457(9)	0.6504(8)	0.4773(6)	5.8(2)	1/2
C75	0.8442(9)	0.6001(7)	0.5769(5)	5.1(2)	1/2
C76	0.7564(8)	0.6993(7)	0.4886(6)	5.4(2)	1/2
C77	0.6590(3)	0.54947(19)	0.19540(14)	2.74(5)	1
C78	0.4918(3)	0.6460(3)	0.1766(2)	4.20(8)	1
C79	0.4872(6)	0.7350(5)	0.1909(4)	6.13(16)	0.700000
C80	0.4892(6)	0.6382(5)	0.1011(4)	5.46(14)	0.700000
C81	0.4087(7)	0.6050(6)	0.2177(5)	6.9(2)	0.700000
C82	0.4825(14)	0.7212(12)	0.2303(10)	5.7(4)	0.300000
C83	0.5008(14)	0.6819(13)	0.1070(10)	6.1(4)	0.300000
C84	0.4096(12)	0.5845(11)	0.1939(8)	4.5(3)	0.300000
C85	0.8093(2)	0.49105(18)	0.08551(14)	2.31(5)	1
C86	0.8653(2)	0.63452(18)	0.04405(16)	2.70(5)	1
C87	0.9564(3)	0.6216(3)	-0.00792(18)	4.03(7)	1
C88	0.7798(3)	0.6949(2)	0.0185(3)	5.19(10)	1
C89	0.8906(3)	0.6637(3)	0.10559(19)	4.06(7)	1
C90	0.7631(2)	0.09404(18)	0.12034(14)	2.42(5)	1
C91	0.6990(3)	-0.0464(2)	0.11289(19)	3.77(7)	1
C92	0.7488(4)	-0.1175(2)	0.1560(2)	4.99(9)	1
C93	0.5880(3)	-0.0265(3)	0.1362(3)	5.46(10)	1
C94	0.7215(4)	-0.0658(3)	0.0411(2)	5.31(10)	1
C95	0.5546(8)	-0.1248(7)	0.3360(5)	10.2(3)	0.800000
C96	0.4888(7)	-0.0569(6)	0.3261(5)	8.3(2)	0.800000
C97	0.3466(7)	-0.0102(6)	0.2524(5)	8.8(2)	0.800000
C98	0.2993(7)	-0.0381(6)	0.2002(5)	9.3(2)	0.800000

$B_{eq} = 8/3\ \pi^2(U_{11}(aa^*)^2 + U_{22}(bb^*)^2 + U_{33}(cc^*)^2 + 2U_{12}(aa^*bb^*)\cos\gamma + 2U_{13}(aa^*cc^*)\cos\beta +$

$2U_{23}(bb^*cc^*)\cos\alpha)$

Table S14-3. Anisotropic displacement parameters

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Pd1	0.03326(11)	0.02318(10)	0.02232(10)	-0.00432(8)	-0.00797(8)	-0.00351(7)
Pd2	0.03025(11)	0.01845(9)	0.01996(9)	-0.00380(7)	-0.00697(8)	-0.00072(7)
Pd3	0.03108(11)	0.01996(9)	0.02350(10)	-0.00132(8)	-0.00808(8)	-0.00003(7)
Pd4	0.03178(11)	0.02102(10)	0.02092(9)	-0.00561(8)	-0.00616(8)	0.00142(7)
Pd5	0.03152(11)	0.01944(9)	0.02065(9)	-0.00561(8)	-0.00579(8)	-0.00072(7)
Si1	0.0322(4)	0.0211(3)	0.0212(3)	-0.0058(3)	-0.0059(3)	0.0007(3)
Si2	0.0359(4)	0.0199(3)	0.0254(4)	-0.0014(3)	-0.0091(3)	-0.0025(3)
Si3	0.0300(4)	0.0277(4)	0.0218(3)	-0.0051(3)	-0.0072(3)	-0.0005(3)
Si4	0.0315(4)	0.0203(3)	0.0218(3)	-0.0066(3)	-0.0050(3)	-0.0002(3)
Si5	0.0267(4)	0.0191(3)	0.0214(3)	-0.0038(3)	-0.0057(3)	0.0005(3)
N1	0.0448(16)	0.0521(17)	0.0261(13)	-0.0038(13)	-0.0100(12)	0.0004(12)
N2	0.0490(17)	0.0346(14)	0.0422(15)	-0.0067(12)	-0.0113(13)	-0.0131(12)
N3	0.0457(16)	0.0376(14)	0.0305(13)	0.0091(12)	-0.0085(12)	-0.0027(11)
N4	0.0379(14)	0.0265(12)	0.0331(13)	-0.0051(11)	-0.0015(11)	0.0029(10)
N5	0.0514(17)	0.0276(13)	0.0391(14)	-0.0104(12)	-0.0104(13)	-0.0042(11)
C1	0.0374(15)	0.0199(12)	0.0291(13)	-0.0034(11)	-0.0117(12)	-0.0008(10)
C2	0.0410(17)	0.0356(16)	0.0337(16)	-0.0069(14)	-0.0090(13)	0.0030(12)
C3	0.0384(18)	0.056(2)	0.049(2)	-0.0067(16)	-0.0048(16)	-0.0037(17)
C4	0.043(2)	0.052(2)	0.063(2)	0.0049(17)	-0.0204(19)	-0.0015(18)
C5	0.056(2)	0.0400(19)	0.057(2)	0.0040(17)	-0.0262(19)	0.0095(16)
C6	0.0435(18)	0.0327(16)	0.0380(17)	-0.0050(14)	-0.0111(14)	0.0065(13)
C7	0.0441(17)	0.0339(15)	0.0213(13)	-0.0161(13)	-0.0072(12)	0.0001(11)
C8	0.058(2)	0.0378(17)	0.0308(15)	-0.0186(16)	-0.0115(15)	0.0058(13)
C9	0.094(3)	0.049(2)	0.040(2)	-0.044(2)	-0.016(2)	0.0085(17)
C10	0.080(3)	0.082(3)	0.041(2)	-0.054(3)	0.006(2)	-0.007(2)
C11	0.051(2)	0.081(3)	0.045(2)	-0.031(2)	0.0066(18)	-0.018(2)
C12	0.0445(19)	0.051(2)	0.0358(17)	-0.0191(16)	-0.0010(14)	-0.0100(15)
C13	0.066(2)	0.0262(14)	0.0279(14)	-0.0153(15)	-0.0144(15)	-0.0004(11)
C14	0.064(3)	0.053(2)	0.0424(19)	-0.030(2)	-0.0028(18)	-0.0100(16)
C15	0.101(4)	0.094(4)	0.057(3)	-0.068(3)	-0.004(3)	-0.012(3)
C16	0.188(7)	0.083(4)	0.052(3)	-0.100(5)	-0.036(4)	0.012(3)
C17	0.166(6)	0.037(2)	0.061(3)	-0.043(3)	-0.053(4)	0.0102(19)
C18	0.106(4)	0.0286(17)	0.049(2)	-0.014(2)	-0.036(2)	0.0019(15)
C19	0.0448(18)	0.0349(16)	0.0268(14)	0.0090(13)	-0.0104(13)	-0.0041(12)

C20	0.057(2)	0.056(2)	0.049(2)	0.0177(18)	-0.0169(18)	-0.0227(18)
C21	0.069(3)	0.086(3)	0.054(3)	0.037(3)	-0.012(2)	-0.032(2)
C22	0.053(3)	0.093(4)	0.054(3)	0.028(3)	0.011(2)	0.005(2)
C23	0.045(2)	0.074(3)	0.072(3)	-0.006(2)	0.006(2)	0.006(2)
C24	0.044(2)	0.048(2)	0.048(2)	-0.0025(16)	0.0032(16)	-0.0023(16)
C25	0.0346(15)	0.0314(14)	0.0239(13)	-0.0078(12)	-0.0108(11)	0.0007(11)
C26	0.0425(18)	0.0352(16)	0.0364(16)	-0.0052(14)	-0.0039(14)	0.0018(13)
C27	0.066(3)	0.043(2)	0.042(2)	-0.0167(18)	0.0013(18)	0.0078(16)
C28	0.077(3)	0.0323(18)	0.045(2)	-0.0066(18)	-0.0161(19)	0.0083(15)
C29	0.055(2)	0.0349(18)	0.055(2)	0.0039(16)	-0.0178(18)	-0.0008(15)
C30	0.0401(17)	0.0366(16)	0.0355(16)	-0.0054(14)	-0.0093(13)	-0.0016(13)
C31	0.0382(16)	0.0309(15)	0.0275(14)	-0.0068(12)	-0.0048(12)	-0.0024(11)
C32	0.0447(19)	0.047(2)	0.0320(16)	0.0041(15)	-0.0009(14)	-0.0019(14)
C33	0.056(2)	0.061(3)	0.050(2)	0.016(2)	0.0044(19)	-0.0034(19)
C34	0.072(3)	0.052(2)	0.047(2)	0.000(2)	0.011(2)	-0.0161(18)
C35	0.069(3)	0.061(2)	0.0323(17)	-0.012(2)	-0.0022(17)	-0.0134(16)
C36	0.056(2)	0.049(2)	0.0278(15)	-0.0054(17)	-0.0079(15)	-0.0047(14)
C37	0.0340(15)	0.0347(15)	0.0298(14)	-0.0071(12)	-0.0135(12)	0.0030(12)
C38	0.0467(19)	0.048(2)	0.0430(18)	-0.0104(16)	-0.0172(16)	-0.0059(15)
C39	0.057(2)	0.061(3)	0.069(3)	-0.023(2)	-0.028(2)	-0.011(2)
C40	0.042(2)	0.076(3)	0.071(3)	-0.028(2)	-0.021(2)	0.004(2)
C41	0.039(2)	0.070(3)	0.060(3)	-0.0124(19)	-0.0030(18)	-0.004(2)
C42	0.0417(19)	0.051(2)	0.0407(18)	-0.0131(16)	-0.0050(15)	-0.0046(15)
C43	0.0515(18)	0.0209(13)	0.0201(12)	-0.0063(12)	-0.0085(12)	-0.0013(10)
C44	0.0519(19)	0.0258(14)	0.0326(15)	-0.0019(13)	-0.0115(14)	-0.0026(11)
C45	0.068(3)	0.0369(19)	0.049(2)	0.0074(17)	-0.0209(19)	-0.0041(15)
C46	0.104(4)	0.0245(17)	0.054(2)	0.0016(19)	-0.031(2)	0.0019(15)
C47	0.098(3)	0.0268(17)	0.048(2)	-0.0238(19)	-0.021(2)	0.0050(14)
C48	0.059(2)	0.0291(15)	0.0392(17)	-0.0162(15)	-0.0152(16)	0.0026(13)
C49	0.0333(15)	0.0362(16)	0.0280(14)	-0.0100(12)	-0.0048(12)	-0.0080(12)
C50	0.0425(19)	0.052(2)	0.0367(17)	-0.0217(16)	-0.0042(14)	0.0000(15)
C51	0.045(2)	0.087(3)	0.049(2)	-0.034(2)	0.0030(18)	-0.004(2)
C52	0.0310(18)	0.096(4)	0.062(3)	-0.014(2)	-0.0025(18)	-0.017(2)
C53	0.0401(19)	0.067(3)	0.052(2)	0.0057(18)	-0.0139(17)	-0.0053(19)
C54	0.0369(17)	0.0476(19)	0.0354(16)	-0.0044(14)	-0.0061(14)	-0.0012(14)
C55	0.0292(14)	0.0357(15)	0.0274(14)	-0.0049(12)	-0.0042(11)	0.0105(11)
C56	0.0419(19)	0.0424(19)	0.051(2)	0.0070(15)	0.0036(16)	0.0106(16)
C57	0.042(2)	0.080(3)	0.083(3)	0.023(2)	0.014(2)	0.033(3)
C58	0.027(2)	0.139(5)	0.083(4)	-0.009(3)	-0.005(2)	0.062(4)

C59	0.043(2)	0.126(5)	0.052(2)	-0.044(3)	-0.0187(19)	0.037(3)
C60	0.0360(17)	0.065(2)	0.0357(17)	-0.0219(17)	-0.0084(14)	0.0124(16)
C61	0.0365(16)	0.0359(16)	0.0274(14)	-0.0056(13)	-0.0097(12)	-0.0038(12)
C62	0.056(2)	0.078(3)	0.0260(16)	0.007(2)	-0.0062(16)	0.0103(17)
C69	0.0420(17)	0.0314(15)	0.0328(15)	-0.0038(13)	-0.0115(13)	-0.0056(12)
C70	0.056(2)	0.0406(19)	0.060(2)	-0.0110(17)	-0.0139(19)	-0.0247(17)
C77	0.0454(18)	0.0302(15)	0.0259(14)	0.0023(13)	-0.0082(13)	-0.0003(11)
C78	0.043(2)	0.053(2)	0.054(2)	0.0149(17)	-0.0080(17)	0.0070(17)
C85	0.0330(15)	0.0238(13)	0.0303(14)	-0.0032(11)	-0.0056(12)	0.0004(11)
C86	0.0391(17)	0.0218(13)	0.0395(16)	-0.0073(12)	-0.0004(13)	0.0036(12)
C87	0.061(2)	0.052(2)	0.0406(19)	-0.0251(19)	0.0070(17)	-0.0013(16)
C88	0.064(3)	0.0293(18)	0.102(4)	0.0009(18)	-0.025(3)	0.012(2)
C89	0.062(2)	0.045(2)	0.050(2)	-0.0195(18)	0.0004(18)	-0.0140(17)
C90	0.0404(16)	0.0264(14)	0.0261(13)	-0.0059(12)	-0.0075(12)	-0.0010(11)
C91	0.069(3)	0.0284(16)	0.054(2)	-0.0175(16)	-0.0225(19)	-0.0027(14)
C92	0.095(3)	0.0296(18)	0.074(3)	-0.020(2)	-0.032(3)	0.0050(18)
C93	0.063(3)	0.071(3)	0.081(3)	-0.031(2)	-0.016(2)	0.010(3)
C94	0.107(4)	0.043(2)	0.063(3)	-0.012(2)	-0.036(3)	-0.0189(19)

The general temperature factor expression: $\exp(-2\pi^2(a^{*2}U_{11}h^2 + b^{*2}U_{22}k^2 + c^{*2}U_{33}l^2 + 2a^*b^*U_{12}hk + 2a^*c^*U_{13}hl + 2b^*c^*U_{23}kl))$

Table S14-4. Bond lengths (Å)

atom	atom	distance	atom	atom	distance
Pd1	Pd2	2.7914(6)	Pd1	Si1	2.3917(9)
Pd1	Si2	2.5408(9)	Pd1	C61	1.992(3)
Pd1	C69	2.037(3)	Pd2	Pd3	2.7647(5)
Pd2	Si1	2.2472(9)	Pd2	Si2	2.3397(9)
Pd2	Si4	2.4288(10)	Pd2	Si5	2.3975(7)
Pd3	Pd4	2.7670(6)	Pd3	Si2	2.4546(10)
Pd3	Si5	2.3841(7)	Pd3	C77	2.006(3)
Pd3	C85	2.323(3)	Pd4	Pd5	2.7208(5)
Pd4	Si3	2.5509(10)	Pd4	Si5	2.3771(8)
Pd4	C25	2.371(3)	Pd4	C85	1.989(3)
Pd5	Si3	2.4034(9)	Pd5	Si4	2.4766(9)
Pd5	Si5	2.3393(9)	Pd5	C90	1.985(3)
Si1	C1	1.879(3)	Si1	C7	1.879(3)
Si2	C13	1.892(4)	Si2	C19	1.895(3)
Si3	C25	1.923(3)	Si3	C31	1.898(3)

Si3	C37	1.890(3)	Si4	Si5	2.4514(10)
Si4	C43	1.884(3)	Si4	C49	1.894(3)
Si5	C55	1.890(3)	O1	C96	1.577(12)
O1	C97	1.372(10)	N1	C61	1.139(4)
N1	C62	1.460(5)	N2	C69	1.143(5)
N2	C70	1.457(5)	N3	C77	1.144(4)
N3	C78	1.451(5)	N4	C85	1.148(4)
N4	C86	1.455(4)	N5	C90	1.145(4)
N5	C91	1.456(5)	C1	C2	1.399(4)
C1	C6	1.392(4)	C2	C3	1.389(5)
C3	C4	1.372(6)	C4	C5	1.371(6)
C5	C6	1.390(5)	C7	C8	1.395(5)
C7	C12	1.400(4)	C8	C9	1.393(6)
C9	C10	1.365(6)	C10	C11	1.357(7)
C11	C12	1.388(6)	C13	C14	1.378(6)
C13	C18	1.394(5)	C14	C15	1.388(8)
C15	C16	1.388(8)	C16	C17	1.358(11)
C17	C18	1.378(8)	C19	C20	1.394(5)
C19	C24	1.381(6)	C20	C21	1.382(6)
C21	C22	1.363(8)	C22	C23	1.359(8)
C23	C24	1.385(5)	C25	C26	1.404(4)
C25	C30	1.396(4)	C26	C27	1.383(5)
C27	C28	1.370(5)	C28	C29	1.374(5)
C29	C30	1.389(5)	C31	C32	1.375(5)
C31	C36	1.397(5)	C32	C33	1.392(5)
C33	C34	1.364(6)	C34	C35	1.364(6)
C35	C36	1.382(5)	C37	C38	1.389(5)
C37	C42	1.388(4)	C38	C39	1.385(6)
C39	C40	1.382(6)	C40	C41	1.354(7)
C41	C42	1.384(6)	C43	C44	1.389(5)
C43	C48	1.393(5)	C44	C45	1.390(5)
C45	C46	1.385(6)	C46	C47	1.363(7)
C47	C48	1.380(5)	C49	C50	1.396(5)
C49	C54	1.397(5)	C50	C51	1.378(5)
C51	C52	1.370(6)	C52	C53	1.374(6)
C53	C54	1.388(5)	C55	C56	1.395(5)
C55	C60	1.386(6)	C56	C57	1.382(6)
C57	C58	1.364(9)	C58	C59	1.375(9)
C59	C60	1.381(6)	C62	C63	1.505(12)

C62	C64	1.713(12)	C62	C65	1.399(14)
C62	C66	1.647(10)	C62	C67	1.400(12)
C62	C68	1.621(10)	C63	C66	1.400(17)
C63	C67	1.576(15)	C64	C67	0.951(14)
C65	C66	1.979(14)	C65	C68	0.628(14)
C70	C71	1.562(12)	C70	C72	1.575(15)
C70	C73	1.516(10)	C70	C74	1.468(13)
C70	C75	1.569(12)	C70	C76	1.549(11)
C71	C74	0.566(17)	C72	C75	0.608(18)
C73	C76	0.627(15)	C78	C79	1.482(10)
C78	C80	1.586(9)	C78	C81	1.513(11)
C78	C82	1.70(2)	C78	C83	1.50(2)
C78	C84	1.601(18)	C79	C82	0.82(2)
C79	C83	1.98(2)	C80	C83	0.77(2)
C81	C84	0.62(2)	C86	C87	1.503(5)
C86	C88	1.515(5)	C86	C89	1.511(6)
C91	C92	1.518(6)	C91	C93	1.500(6)
C91	C94	1.519(6)	C95	C96	1.309(14)
C97	C98	1.489(16)			

Table S14-5. Bond angles (°)

atom	atom	atom	angle	atom	atom	atom	angle
Pd2	Pd1	Si1	50.67(2)	Pd2	Pd1	Si2	51.79(2)
Pd2	Pd1	C61	128.20(10)	Pd2	Pd1	C69	133.27(9)
Si1	Pd1	Si2	101.99(3)	Si1	Pd1	C61	77.95(10)
Si1	Pd1	C69	169.73(10)	Si2	Pd1	C61	165.74(9)
Si2	Pd1	C69	83.88(9)	C61	Pd1	C69	98.46(13)
Pd1	Pd2	Pd3	115.155(15)	Pd1	Pd2	Si1	55.41(2)
Pd1	Pd2	Si2	58.58(2)	Pd1	Pd2	Si4	138.44(2)
Pd1	Pd2	Si5	158.98(2)	Pd3	Pd2	Si1	169.71(3)
Pd3	Pd2	Si2	56.75(2)	Pd3	Pd2	Si4	101.76(3)
Pd3	Pd2	Si5	54.451(18)	Si1	Pd2	Si2	113.40(3)
Si1	Pd2	Si4	85.95(3)	Si1	Pd2	Si5	135.83(3)
Si2	Pd2	Si4	149.09(3)	Si2	Pd2	Si5	109.48(3)
Si4	Pd2	Si5	61.05(3)	Pd2	Pd3	Pd4	107.299(15)
Pd2	Pd3	Si2	52.86(2)	Pd2	Pd3	Si5	54.902(18)
Pd2	Pd3	C77	130.53(8)	Pd2	Pd3	C85	144.89(7)
Pd4	Pd3	Si2	160.12(2)	Pd4	Pd3	Si5	54.349(19)

Pd4	Pd3	C77	109.31(9)	Pd4	Pd3	C85	44.96(8)
Si2	Pd3	Si5	106.14(3)	Si2	Pd3	C77	87.99(9)
Si2	Pd3	C85	151.14(8)	Si5	Pd3	C77	156.88(11)
Si5	Pd3	C85	91.18(7)	C77	Pd3	C85	84.07(10)
Pd3	Pd4	Pd5	99.984(17)	Pd3	Pd4	Si3	148.57(2)
Pd3	Pd4	Si5	54.588(19)	Pd3	Pd4	C25	149.56(7)
Pd3	Pd4	C85	55.62(8)	Pd5	Pd4	Si3	54.13(2)
Pd5	Pd4	Si5	54.12(2)	Pd5	Pd4	C25	99.83(7)
Pd5	Pd4	C85	153.99(9)	Si3	Pd4	Si5	107.42(3)
Si3	Pd4	C25	45.82(7)	Si3	Pd4	C85	151.87(9)
Si5	Pd4	C25	152.91(7)	Si5	Pd4	C85	100.37(9)
C25	Pd4	C85	106.10(11)	Pd4	Pd5	Si3	59.33(2)
Pd4	Pd5	Si4	109.23(2)	Pd4	Pd5	Si5	55.421(19)
Pd4	Pd5	C90	150.34(9)	Si3	Pd5	Si4	159.58(3)
Si3	Pd5	Si5	113.81(3)	Si3	Pd5	C90	91.43(9)
Si4	Pd5	Si5	61.12(3)	Si4	Pd5	C90	96.95(9)
Si5	Pd5	C90	154.23(9)	Pd1	Si1	Pd2	73.91(3)
Pd1	Si1	C1	107.44(10)	Pd1	Si1	C7	114.53(10)
Pd2	Si1	C1	120.27(9)	Pd2	Si1	C7	124.32(11)
C1	Si1	C7	109.42(13)	Pd1	Si2	Pd2	69.63(2)
Pd1	Si2	Pd3	139.72(4)	Pd1	Si2	C13	108.03(11)
Pd1	Si2	C19	91.61(10)	Pd2	Si2	Pd3	70.39(3)
Pd2	Si2	C13	132.57(10)	Pd2	Si2	C19	115.91(11)
Pd3	Si2	C13	95.32(10)	Pd3	Si2	C19	110.11(11)
C13	Si2	C19	111.50(15)	Pd4	Si3	Pd5	66.54(3)
Pd4	Si3	C25	62.15(10)	Pd4	Si3	C31	128.44(11)
Pd4	Si3	C37	123.81(10)	Pd5	Si3	C25	128.48(10)
Pd5	Si3	C31	111.41(10)	Pd5	Si3	C37	100.29(9)
C25	Si3	C31	103.66(12)	C25	Si3	C37	103.77(13)
C31	Si3	C37	107.52(15)	Pd2	Si4	Pd5	114.56(3)
Pd2	Si4	Si5	58.85(3)	Pd2	Si4	C43	122.56(11)
Pd2	Si4	C49	99.06(11)	Pd5	Si4	Si5	56.68(3)
Pd5	Si4	C43	106.69(9)	Pd5	Si4	C49	98.59(10)
Si5	Si4	C43	130.47(10)	Si5	Si4	C49	115.76(10)
C43	Si4	C49	112.66(14)	Pd2	Si5	Pd3	70.65(2)
Pd2	Si5	Pd4	137.86(3)	Pd2	Si5	Pd5	121.21(3)
Pd2	Si5	Si4	60.11(3)	Pd2	Si5	C55	98.34(9)
Pd3	Si5	Pd4	71.06(2)	Pd3	Si5	Pd5	125.72(4)
Pd3	Si5	Si4	113.10(3)	Pd3	Si5	C55	120.48(11)

Pd4	Si5	Pd5	70.46(2)	Pd4	Si5	Si4	122.81(4)
Pd4	Si5	C55	115.96(9)	Pd5	Si5	Si4	62.21(3)
Pd5	Si5	C55	110.22(11)	Si4	Si5	C55	109.33(10)
C96	O1	C97	126.0(6)	C61	N1	C62	175.3(4)
C69	N2	C70	179.9(3)	C77	N3	C78	172.7(4)
C85	N4	C86	167.7(3)	C90	N5	C91	171.1(3)
Si1	C1	C2	118.9(2)	Si1	C1	C6	124.4(2)
C2	C1	C6	116.6(3)	C1	C2	C3	121.9(3)
C2	C3	C4	119.6(3)	C3	C4	C5	120.3(4)
C4	C5	C6	119.9(3)	C1	C6	C5	121.6(3)
Si1	C7	C8	124.1(2)	Si1	C7	C12	118.3(2)
C8	C7	C12	117.4(3)	C7	C8	C9	120.7(3)
C8	C9	C10	120.3(4)	C9	C10	C11	120.4(5)
C10	C11	C12	120.4(4)	C7	C12	C11	120.8(4)
Si2	C13	C14	119.0(3)	Si2	C13	C18	123.9(3)
C14	C13	C18	117.0(4)	C13	C14	C15	121.9(4)
C14	C15	C16	119.1(6)	C15	C16	C17	120.2(6)
C16	C17	C18	119.9(5)	C13	C18	C17	121.8(5)
Si2	C19	C20	125.0(3)	Si2	C19	C24	117.9(2)
C20	C19	C24	116.7(3)	C19	C20	C21	121.1(4)
C20	C21	C22	120.6(5)	C21	C22	C23	119.7(4)
C22	C23	C24	120.1(5)	C19	C24	C23	121.8(4)
Pd4	C25	Si3	72.03(9)	Pd4	C25	C26	107.0(2)
Pd4	C25	C30	89.7(2)	Si3	C25	C26	121.5(2)
Si3	C25	C30	122.6(2)	C26	C25	C30	115.8(3)
C25	C26	C27	122.1(3)	C26	C27	C28	120.2(4)
C27	C28	C29	119.8(3)	C28	C29	C30	119.9(3)
C25	C30	C29	122.1(3)	Si3	C31	C32	120.8(2)
Si3	C31	C36	122.4(2)	C32	C31	C36	116.7(3)
C31	C32	C33	121.9(3)	C32	C33	C34	120.0(4)
C33	C34	C35	119.4(4)	C34	C35	C36	120.7(4)
C31	C36	C35	121.2(3)	Si3	C37	C38	123.8(2)
Si3	C37	C42	119.9(3)	C38	C37	C42	116.1(3)
C37	C38	C39	121.5(3)	C38	C39	C40	120.5(4)
C39	C40	C41	119.2(4)	C40	C41	C42	120.3(4)
C37	C42	C41	122.5(4)	Si4	C43	C44	119.4(2)
Si4	C43	C48	123.5(3)	C44	C43	C48	117.1(3)
C43	C44	C45	121.7(3)	C44	C45	C46	119.5(4)
C45	C46	C47	119.5(3)	C46	C47	C48	120.9(4)

C43	C48	C47	121.2(4)	Si4	C49	C50	125.3(2)
Si4	C49	C54	118.3(2)	C50	C49	C54	116.4(3)
C49	C50	C51	121.7(3)	C50	C51	C52	120.9(4)
C51	C52	C53	119.0(4)	C52	C53	C54	120.4(4)
C49	C54	C53	121.5(3)	Si5	C55	C56	121.4(3)
Si5	C55	C60	121.0(2)	C56	C55	C60	117.4(3)
C55	C56	C57	121.3(4)	C56	C57	C58	119.8(5)
C57	C58	C59	120.4(4)	C58	C59	C60	119.8(5)
C55	C60	C59	121.3(4)	Pd1	C61	N1	173.2(3)
N1	C62	C63	104.1(5)	N1	C62	C64	99.9(4)
N1	C62	C65	109.1(6)	N1	C62	C66	107.3(4)
N1	C62	C67	113.3(5)	N1	C62	C68	107.0(4)
C63	C62	C64	98.6(6)	C63	C62	C65	128.8(7)
C63	C62	C66	52.5(6)	C63	C62	C67	65.6(6)
C63	C62	C68	145.1(6)	C64	C62	C65	112.4(6)
C64	C62	C66	144.0(5)	C64	C62	C67	33.7(5)
C64	C62	C68	91.3(5)	C65	C62	C66	80.6(6)
C65	C62	C67	128.7(7)	C65	C62	C68	22.5(6)
C66	C62	C67	111.7(6)	C66	C62	C68	102.5(5)
C67	C62	C68	114.3(5)	C62	C63	C66	68.9(7)
C62	C63	C67	54.0(6)	C66	C63	C67	116.0(9)
C62	C64	C67	54.8(9)	C62	C65	C66	55.2(5)
C62	C65	C68	99.1(17)	C66	C65	C68	151.5(19)
C62	C66	C63	58.5(6)	C62	C66	C65	44.2(5)
C63	C66	C65	100.2(8)	C62	C67	C63	60.4(6)
C62	C67	C64	91.5(11)	C63	C67	C64	149.5(13)
C62	C68	C65	58.4(14)	Pd1	C69	N2	170.2(3)
N2	C70	C71	107.1(5)	N2	C70	C72	105.1(6)
N2	C70	C73	107.7(5)	N2	C70	C74	108.5(6)
N2	C70	C75	105.7(5)	N2	C70	C76	106.1(6)
C71	C70	C72	107.2(7)	C71	C70	C73	116.8(6)
C71	C70	C74	21.3(6)	C71	C70	C75	126.4(7)
C71	C70	C76	96.1(6)	C72	C70	C73	112.2(7)
C72	C70	C74	86.6(8)	C72	C70	C75	22.3(6)
C72	C70	C76	133.0(7)	C73	C70	C74	132.4(7)
C73	C70	C75	91.4(6)	C73	C70	C76	23.6(6)
C74	C70	C75	107.2(7)	C74	C70	C76	115.0(7)
C75	C70	C76	113.9(6)	C70	C71	C74	69.9(17)
C70	C72	C75	78.3(18)	C70	C73	C76	81.2(13)

C70	C74	C71	88.8(18)	C70	C75	C72	79.3(17)
C70	C76	C73	75.2(13)	Pd3	C77	N3	166.1(3)
N3	C78	C79	110.5(5)	N3	C78	C80	104.3(4)
N3	C78	C81	107.9(4)	N3	C78	C82	99.2(7)
N3	C78	C83	109.4(8)	N3	C78	C84	106.7(6)
C79	C78	C80	111.2(5)	C79	C78	C81	112.9(5)
C79	C78	C82	28.9(7)	C79	C78	C83	83.2(9)
C79	C78	C84	131.1(7)	C80	C78	C81	109.6(6)
C80	C78	C82	139.9(7)	C80	C78	C83	28.9(9)
C80	C78	C84	88.6(7)	C81	C78	C82	93.0(8)
C81	C78	C83	130.1(10)	C81	C78	C84	22.6(7)
C82	C78	C83	112.1(11)	C82	C78	C84	115.2(9)
C83	C78	C84	113.1(11)	C78	C79	C82	90.3(15)
C78	C79	C83	48.7(7)	C82	C79	C83	139.0(17)
C78	C80	C83	69.1(15)	C78	C81	C84	86.7(18)
C78	C82	C79	60.8(14)	C78	C83	C79	48.1(7)
C78	C83	C80	82.0(16)	C79	C83	C80	128.5(19)
C78	C84	C81	70.6(18)	Pd3	C85	Pd4	79.42(10)
Pd3	C85	N4	130.0(3)	Pd4	C85	N4	150.1(3)
N4	C86	C87	107.4(3)	N4	C86	C88	107.9(3)
N4	C86	C89	107.5(3)	C87	C86	C88	111.1(3)
C87	C86	C89	111.2(3)	C88	C86	C89	111.5(3)
Pd5	C90	N5	176.1(3)	N5	C91	C92	107.9(4)
N5	C91	C93	107.1(3)	N5	C91	C94	107.3(3)
C92	C91	C93	111.0(4)	C92	C91	C94	111.5(3)
C93	C91	C94	111.8(4)	O1	C96	C95	111.7(9)
O1	C97	C98	114.2(8)				

Table S14-6. Torsion Angles(°)

(Those having bond angles > 160 or < 20 degrees are excluded.)

atom1	atom2	atom3	atom4	angle	atom1	atom2	atom3	atom4	angle
Pd2	Pd1	Si1	Pd2	-0.0	Pd2	Pd1	Si1	C1	117.35(4)
Pd2	Pd1	Si1	C7	-120.89(5)	Si1	Pd1	Pd2	Pd3	175.26(3)
Si1	Pd1	Pd2	Si1	0.00(2)	Si1	Pd1	Pd2	Si2	170.63(3)
Si1	Pd1	Pd2	Si4	24.90(3)	Si1	Pd1	Pd2	Si5	-129.40(5)
Pd2	Pd1	Si2	Pd2	0.0	Pd2	Pd1	Si2	Pd3	-7.30(4)
Pd2	Pd1	Si2	C13	-129.64(4)	Pd2	Pd1	Si2	C19	117.11(4)
Si2	Pd1	Pd2	Pd3	4.62(2)	Si2	Pd1	Pd2	Si1	-170.63(3)

Si2	Pd1	Pd2	Si2	0.00(2)	Si2	Pd1	Pd2	Si4	-145.73(3)
Si2	Pd1	Pd2	Si5	59.97(4)	C61	Pd1	Pd2	Pd3	166.44(11)
C61	Pd1	Pd2	Si1	-8.81(11)	C61	Pd1	Pd2	Si2	161.82(11)
C61	Pd1	Pd2	Si4	16.09(11)	C61	Pd1	Pd2	Si5	-138.21(12)
C69	Pd1	Pd2	Pd3	-17.39(13)	C69	Pd1	Pd2	Si1	167.36(13)
C69	Pd1	Pd2	Si2	-22.01(13)	C69	Pd1	Pd2	Si4	-167.74(13)
C69	Pd1	Pd2	Si5	37.96(14)	Si1	Pd1	Si2	Pd2	-7.39(3)
Si1	Pd1	Si2	Pd3	-14.70(6)	Si1	Pd1	Si2	C13	-137.03(3)
Si1	Pd1	Si2	C19	109.72(3)	Si2	Pd1	Si1	Pd2	7.51(3)
Si2	Pd1	Si1	C1	124.86(3)	Si2	Pd1	Si1	C7	-113.38(4)
C61	Pd1	Si1	Pd2	172.93(9)	C61	Pd1	Si1	C1	-69.73(10)
C61	Pd1	Si1	C7	52.04(10)	C69	Pd1	Si2	Pd2	164.07(9)
C69	Pd1	Si2	Pd3	156.77(11)	C69	Pd1	Si2	C13	34.43(9)
C69	Pd1	Si2	C19	-78.81(9)	Pd1	Pd2	Pd3	Pd4	173.942(11)
Pd1	Pd2	Pd3	Si2	-4.717(10)	Pd1	Pd2	Pd3	Si5	158.739(15)
Pd1	Pd2	Pd3	C77	-49.85(3)	Pd1	Pd2	Pd3	C85	141.68(2)
Pd1	Pd2	Si1	Pd1	-0.0	Pd1	Pd2	Si1	C1	-101.12(5)
Pd1	Pd2	Si1	C7	109.05(5)	Pd1	Pd2	Si2	Pd1	0.0
Pd1	Pd2	Si2	Pd3	175.00(3)	Pd1	Pd2	Si2	C13	96.16(6)
Pd1	Pd2	Si2	C19	-81.55(4)	Pd1	Pd2	Si4	Pd5	179.368(17)
Pd1	Pd2	Si4	Si5	-169.76(2)	Pd1	Pd2	Si4	C43	-48.84(6)
Pd1	Pd2	Si4	C49	75.54(4)	Pd1	Pd2	Si5	Pd3	-66.22(6)
Pd1	Pd2	Si5	Pd4	-91.97(8)	Pd1	Pd2	Si5	Pd5	173.06(4)
Pd1	Pd2	Si5	Si4	160.80(5)	Pd1	Pd2	Si5	C55	53.25(7)
Pd3	Pd2	Si2	Pd1	-175.00(3)	Pd3	Pd2	Si2	Pd3	-0.0
Pd3	Pd2	Si2	C13	-78.83(5)	Pd3	Pd2	Si2	C19	103.46(5)
Si2	Pd2	Pd3	Pd4	178.66(3)	Si2	Pd2	Pd3	Si2	-0.00(2)
Si2	Pd2	Pd3	Si5	163.46(3)	Si2	Pd2	Pd3	C77	-45.13(3)
Si2	Pd2	Pd3	C85	146.40(4)	Pd3	Pd2	Si4	Pd5	26.58(3)
Pd3	Pd2	Si4	Si5	37.451(16)	Pd3	Pd2	Si4	C43	158.37(4)
Pd3	Pd2	Si4	C49	-77.25(3)	Si4	Pd2	Pd3	Pd4	-25.64(2)
Si4	Pd2	Pd3	Si2	155.70(2)	Si4	Pd2	Pd3	Si5	-40.84(2)
Si4	Pd2	Pd3	C77	110.57(3)	Si4	Pd2	Pd3	C85	-57.90(3)
Pd3	Pd2	Si5	Pd3	-0.0	Pd3	Pd2	Si5	Pd4	-25.74(4)
Pd3	Pd2	Si5	Pd5	-120.71(4)	Pd3	Pd2	Si5	Si4	-132.97(3)
Pd3	Pd2	Si5	C55	119.47(3)	Si5	Pd2	Pd3	Pd4	15.20(3)
Si5	Pd2	Pd3	Si2	-163.46(3)	Si5	Pd2	Pd3	Si5	-0.00(2)
Si5	Pd2	Pd3	C77	151.42(3)	Si5	Pd2	Pd3	C85	-17.05(4)
Si1	Pd2	Si2	Pd1	8.40(3)	Si1	Pd2	Si2	Pd3	-176.61(3)

Si1	Pd2	Si2	C13	104.56(6)	Si1	Pd2	Si2	C19	-73.15(5)
Si2	Pd2	Si1	Pd1	-8.70(3)	Si2	Pd2	Si1	C1	-109.82(5)
Si2	Pd2	Si1	C7	100.34(5)	Si1	Pd2	Si4	Pd5	-160.30(4)
Si1	Pd2	Si4	Si5	-149.43(2)	Si1	Pd2	Si4	C43	-28.51(4)
Si1	Pd2	Si4	C49	95.87(3)	Si4	Pd2	Si1	Pd1	-163.74(2)
Si4	Pd2	Si1	C1	95.14(5)	Si4	Pd2	Si1	C7	-54.69(5)
Si1	Pd2	Si5	Pd3	179.70(4)	Si1	Pd2	Si5	Pd4	153.96(5)
Si1	Pd2	Si5	Pd5	58.99(6)	Si1	Pd2	Si5	Si4	46.73(5)
Si1	Pd2	Si5	C55	-60.83(5)	Si5	Pd2	Si1	Pd1	156.56(4)
Si5	Pd2	Si1	C1	55.44(7)	Si5	Pd2	Si1	C7	-94.39(5)
Si2	Pd2	Si4	Pd5	68.64(7)	Si2	Pd2	Si4	Si5	79.51(6)
Si2	Pd2	Si4	C43	-159.57(5)	Si2	Pd2	Si4	C49	-35.19(7)
Si4	Pd2	Si2	Pd1	133.36(5)	Si4	Pd2	Si2	Pd3	-51.65(6)
Si4	Pd2	Si2	C13	-130.48(6)	Si4	Pd2	Si2	C19	51.81(8)
Si2	Pd2	Si5	Pd3	-14.63(3)	Si2	Pd2	Si5	Pd4	-40.37(6)
Si2	Pd2	Si5	Pd5	-135.34(3)	Si2	Pd2	Si5	Si4	-147.60(3)
Si2	Pd2	Si5	C55	104.84(3)	Si5	Pd2	Si2	Pd1	-160.77(3)
Si5	Pd2	Si2	Pd3	14.23(3)	Si5	Pd2	Si2	C13	-64.61(6)
Si5	Pd2	Si2	C19	117.68(4)	Si4	Pd2	Si5	Pd3	132.97(3)
Si4	Pd2	Si5	Pd4	107.23(6)	Si4	Pd2	Si5	Pd5	12.26(3)
Si4	Pd2	Si5	Si4	0.00(2)	Si4	Pd2	Si5	C55	-107.56(3)
Si5	Pd2	Si4	Pd5	-10.87(3)	Si5	Pd2	Si4	Si5	-0.00(2)
Si5	Pd2	Si4	C43	120.92(5)	Si5	Pd2	Si4	C49	-114.70(4)
Pd2	Pd3	Pd4	Pd5	15.898(14)	Pd2	Pd3	Pd4	Si3	47.38(3)
Pd2	Pd3	Pd4	Si5	-15.3	Pd2	Pd3	Pd4	C25	145.81(3)
Pd2	Pd3	Pd4	C85	-154.253(14)	Pd2	Pd3	Si2	Pd1	7.27(4)
Pd2	Pd3	Si2	Pd2	0.0	Pd2	Pd3	Si2	C13	133.47(4)
Pd2	Pd3	Si2	C19	-111.31(4)	Pd2	Pd3	Si5	Pd2	0.0
Pd2	Pd3	Si5	Pd4	162.05(3)	Pd2	Pd3	Si5	Pd5	115.08(4)
Pd2	Pd3	Si5	Si4	43.60(2)	Pd2	Pd3	Si5	C55	-88.37(4)
Pd2	Pd3	C85	Pd4	46.15(18)	Pd2	Pd3	C85	N4	-127.53(19)
Pd4	Pd3	Si5	Pd2	-162.05(3)	Pd4	Pd3	Si5	Pd4	0.0
Pd4	Pd3	Si5	Pd5	-46.97(3)	Pd4	Pd3	Si5	Si4	-118.45(4)
Pd4	Pd3	Si5	C55	109.57(4)	Si5	Pd3	Pd4	Pd5	31.21(2)
Si5	Pd3	Pd4	Si3	62.69(3)	Si5	Pd3	Pd4	Si5	-0.00(2)
Si5	Pd3	Pd4	C25	161.12(4)	Si5	Pd3	Pd4	C85	-138.94(3)
C77	Pd3	Pd4	Pd5	-130.24(10)	C77	Pd3	Pd4	Si3	-98.75(10)
C77	Pd3	Pd4	Si5	-161.44(10)	C77	Pd3	Pd4	C25	-0.32(11)
C77	Pd3	Pd4	C85	59.61(10)	Pd4	Pd3	C85	Pd4	-0.0

Pd4	Pd3	C85	N4	-173.7(3)	C85	Pd3	Pd4	Pd5	170.15(10)
C85	Pd3	Pd4	Si3	-158.36(11)	C85	Pd3	Pd4	Si5	138.94(10)
C85	Pd3	Pd4	C25	-59.93(11)	C85	Pd3	Pd4	C85	-0.00(10)
Si2	Pd3	Si5	Pd2	13.67(3)	Si2	Pd3	Si5	Pd4	175.72(3)
Si2	Pd3	Si5	Pd5	128.75(3)	Si2	Pd3	Si5	Si4	57.27(4)
Si2	Pd3	Si5	C55	-74.70(4)	Si5	Pd3	Si2	Pd1	-6.77(6)
Si5	Pd3	Si2	Pd2	-14.04(3)	Si5	Pd3	Si2	C13	119.44(3)
Si5	Pd3	Si2	C19	-125.35(4)	C77	Pd3	Si2	Pd1	154.65(11)
C77	Pd3	Si2	Pd2	147.39(10)	C77	Pd3	Si2	C13	-79.14(10)
C77	Pd3	Si2	C19	36.08(10)	Si2	Pd3	C85	Pd4	160.10(8)
Si2	Pd3	C85	N4	-13.6(4)	C85	Pd3	Si2	Pd1	-131.49(15)
C85	Pd3	Si2	Pd2	-138.75(14)	C85	Pd3	Si2	C13	-5.28(15)
C85	Pd3	Si2	C19	109.93(15)	C77	Pd3	Si5	Pd2	-112.1(2)
C77	Pd3	Si5	Pd4	49.9(2)	C77	Pd3	Si5	Pd5	2.9(2)
C77	Pd3	Si5	Si4	-68.5(2)	C77	Pd3	Si5	C55	159.5(2)
Si5	Pd3	C85	Pd4	32.26(8)	Si5	Pd3	C85	N4	-141.4(2)
C85	Pd3	Si5	Pd2	170.29(8)	C85	Pd3	Si5	Pd4	-27.66(8)
C85	Pd3	Si5	Pd5	-74.63(9)	C85	Pd3	Si5	Si4	-146.11(9)
C85	Pd3	Si5	C55	81.92(9)	C77	Pd3	C85	Pd4	-125.06(13)
C77	Pd3	C85	N4	61.3(3)	Pd3	Pd4	Pd5	Si3	160.360(12)
Pd3	Pd4	Pd5	Si4	-0.922(14)	Pd3	Pd4	Pd5	Si5	-31.4
Pd3	Pd4	Pd5	C90	149.70(3)	Pd3	Pd4	Si3	Pd5	-39.40(5)
Pd3	Pd4	Si3	C25	135.67(3)	Pd3	Pd4	Si3	C31	-138.82(4)
Pd3	Pd4	Si3	C37	47.37(7)	Pd3	Pd4	Si5	Pd2	25.67(4)
Pd3	Pd4	Si5	Pd3	-0.0	Pd3	Pd4	Si5	Pd5	140.97(3)
Pd3	Pd4	Si5	Si4	105.81(3)	Pd3	Pd4	Si5	C55	-115.43(4)
Pd3	Pd4	C25	Si3	-134.00(9)	Pd3	Pd4	C25	C26	107.61(15)
Pd3	Pd4	C25	C30	-9.4(2)	Pd3	Pd4	C85	Pd3	-0.0
Pd3	Pd4	C85	N4	170.3(5)	Pd5	Pd4	Si3	Pd5	0.0
Pd5	Pd4	Si3	C25	175.07(3)	Pd5	Pd4	Si3	C31	-99.42(5)
Pd5	Pd4	Si3	C37	86.77(4)	Si3	Pd4	Pd5	Si3	-0.00(2)
Si3	Pd4	Pd5	Si4	-161.28(2)	Si3	Pd4	Pd5	Si5	168.23(2)
Si3	Pd4	Pd5	C90	-10.66(3)	Pd5	Pd4	Si5	Pd2	-115.29(6)
Pd5	Pd4	Si5	Pd3	-140.97(3)	Pd5	Pd4	Si5	Pd5	0.0
Pd5	Pd4	Si5	Si4	-35.16(2)	Pd5	Pd4	Si5	C55	103.60(3)
Si5	Pd4	Pd5	Si3	-168.23(2)	Si5	Pd4	Pd5	Si4	30.49(2)
Si5	Pd4	Pd5	Si5	0.00(2)	Si5	Pd4	Pd5	C90	-178.89(4)
Pd5	Pd4	C25	Si3	-4.05(8)	Pd5	Pd4	C25	C26	-122.44(13)
Pd5	Pd4	C25	C30	120.55(12)	C25	Pd4	Pd5	Si3	3.59(7)

C25	Pd4	Pd5	Si4	-157.70(7)	C25	Pd4	Pd5	Si5	171.82(7)
C25	Pd4	Pd5	C90	-7.08(7)	Pd5	Pd4	C85	Pd3	-22.6(2)
Pd5	Pd4	C85	N4	147.7(3)	C85	Pd4	Pd5	Si3	179.14(19)
C85	Pd4	Pd5	Si4	17.86(19)	C85	Pd4	Pd5	Si5	-12.63(19)
C85	Pd4	Pd5	C90	168.48(19)	Si3	Pd4	Si5	Pd2	-125.27(5)
Si3	Pd4	Si5	Pd3	-150.94(2)	Si3	Pd4	Si5	Pd5	-9.98(3)
Si3	Pd4	Si5	Si4	-45.14(4)	Si3	Pd4	Si5	C55	93.62(4)
Si5	Pd4	Si3	Pd5	9.98(3)	Si5	Pd4	Si3	C25	-174.95(2)
Si5	Pd4	Si3	C31	-89.45(5)	Si5	Pd4	Si3	C37	96.75(5)
Si3	Pd4	C25	Si3	-0.00(2)	Si3	Pd4	C25	C26	-118.39(17)
Si3	Pd4	C25	C30	124.61(17)	C25	Pd4	Si3	Pd5	-175.07(10)
C25	Pd4	Si3	C25	-0.00(9)	C25	Pd4	Si3	C31	85.51(10)
C25	Pd4	Si3	C37	-88.30(10)	Si3	Pd4	C85	Pd3	155.93(11)
Si3	Pd4	C85	N4	-33.8(6)	C85	Pd4	Si3	Pd5	-179.20(17)
C85	Pd4	Si3	C25	-4.13(18)	C85	Pd4	Si3	C31	81.38(18)
C85	Pd4	Si3	C37	-92.43(18)	Si5	Pd4	C25	Si3	10.6(2)
Si5	Pd4	C25	C26	-107.77(18)	Si5	Pd4	C25	C30	135.22(10)
C25	Pd4	Si5	Pd2	-133.23(16)	C25	Pd4	Si5	Pd3	-158.90(16)
C25	Pd4	Si5	Pd5	-17.94(16)	C25	Pd4	Si5	Si4	-53.10(16)
C25	Pd4	Si5	C55	85.66(16)	Si5	Pd4	C85	Pd3	-32.97(7)
Si5	Pd4	C85	N4	137.3(4)	C85	Pd4	Si5	Pd2	59.11(10)
C85	Pd4	Si5	Pd3	33.44(8)	C85	Pd4	Si5	Pd5	174.41(8)
C85	Pd4	Si5	Si4	139.25(8)	C85	Pd4	Si5	C55	-81.99(9)
C25	Pd4	C85	Pd3	152.85(8)	C25	Pd4	C85	N4	-36.9(5)
C85	Pd4	C25	Si3	177.97(10)	C85	Pd4	C25	C26	59.58(17)
C85	Pd4	C25	C30	-57.42(16)	Pd4	Pd5	Si3	Pd4	0.0
Pd4	Pd5	Si3	C25	-5.57(4)	Pd4	Pd5	Si3	C31	123.90(4)
Pd4	Pd5	Si3	C37	-122.53(3)	Pd4	Pd5	Si4	Pd2	-17.36(4)
Pd4	Pd5	Si4	Si5	-28.495(18)	Pd4	Pd5	Si4	C43	-156.36(3)
Pd4	Pd5	Si4	C49	86.77(3)	Pd4	Pd5	Si5	Pd2	134.82(4)
Pd4	Pd5	Si5	Pd3	47.20(3)	Pd4	Pd5	Si5	Pd4	-0.0
Pd4	Pd5	Si5	Si4	146.83(2)	Pd4	Pd5	Si5	C55	-111.36(3)
Si3	Pd5	Si4	Pd2	-69.64(10)	Si3	Pd5	Si4	Si5	-80.78(9)
Si3	Pd5	Si4	C43	151.36(8)	Si3	Pd5	Si4	C49	34.48(11)
Si4	Pd5	Si3	Pd4	60.28(10)	Si4	Pd5	Si3	C25	54.71(12)
Si4	Pd5	Si3	C31	-175.82(7)	Si4	Pd5	Si3	C37	-62.25(10)
Si3	Pd5	Si5	Pd2	145.88(3)	Si3	Pd5	Si5	Pd3	58.26(4)
Si3	Pd5	Si5	Pd4	11.06(3)	Si3	Pd5	Si5	Si4	157.89(2)
Si3	Pd5	Si5	C55	-100.30(3)	Si5	Pd5	Si3	Pd4	-10.58(3)

Si5	Pd5	Si3	C25	-16.15(6)	Si5	Pd5	Si3	C31	113.32(4)
Si5	Pd5	Si3	C37	-133.11(3)	C90	Pd5	Si3	Pd4	174.74(9)
C90	Pd5	Si3	C25	169.17(10)	C90	Pd5	Si3	C31	-61.36(9)
C90	Pd5	Si3	C37	52.21(9)	Si4	Pd5	Si5	Pd2	-12.01(3)
Si4	Pd5	Si5	Pd3	-99.63(4)	Si4	Pd5	Si5	Pd4	-146.83(3)
Si4	Pd5	Si5	Si4	0.00(2)	Si4	Pd5	Si5	C55	101.81(3)
Si5	Pd5	Si4	Pd2	11.14(3)	Si5	Pd5	Si4	Si5	0.00(2)
Si5	Pd5	Si4	C43	-127.86(5)	Si5	Pd5	Si4	C49	115.26(4)
C90	Pd5	Si4	Pd2	176.80(9)	C90	Pd5	Si4	Si5	165.66(9)
C90	Pd5	Si4	C43	37.80(10)	C90	Pd5	Si4	C49	-79.08(9)
C90	Pd5	Si5	Pd2	-46.4(2)	C90	Pd5	Si5	Pd3	-134.1(2)
C90	Pd5	Si5	Pd4	178.7(2)	C90	Pd5	Si5	Si4	-34.4(2)
C90	Pd5	Si5	C55	67.4(2)	Pd1	Si1	C1	C2	-73.7(2)
Pd1	Si1	C1	C6	103.0(2)	Pd1	Si1	C7	C8	-156.21(19)
Pd1	Si1	C7	C12	29.2(3)	Pd2	Si1	C1	C2	7.5(3)
Pd2	Si1	C1	C6	-175.82(17)	Pd2	Si1	C7	C8	117.1(2)
Pd2	Si1	C7	C12	-57.5(3)	C1	Si1	C7	C8	-35.5(3)
C1	Si1	C7	C12	149.9(2)	C7	Si1	C1	C2	161.41(19)
C7	Si1	C1	C6	-21.9(3)	Pd1	Si2	C13	C14	55.5(2)
Pd1	Si2	C13	C18	-129.0(2)	Pd1	Si2	C19	C20	84.2(2)
Pd1	Si2	C19	C24	-89.1(2)	Pd2	Si2	C13	C14	-23.1(3)
Pd2	Si2	C13	C18	152.41(15)	Pd2	Si2	C19	C20	152.24(18)
Pd2	Si2	C19	C24	-21.0(2)	Pd3	Si2	C13	C14	-91.2(2)
Pd3	Si2	C13	C18	84.3(2)	Pd3	Si2	C19	C20	-130.4(2)
Pd3	Si2	C19	C24	56.3(2)	C13	Si2	C19	C20	-25.9(3)
C13	Si2	C19	C24	160.82(19)	C19	Si2	C13	C14	154.7(2)
C19	Si2	C13	C18	-29.8(3)	Pd4	Si3	C25	Pd4	-0.0
Pd4	Si3	C25	C26	99.3(2)	Pd4	Si3	C25	C30	-77.7(2)
Pd4	Si3	C31	C32	69.6(3)	Pd4	Si3	C31	C36	-112.3(2)
Pd4	Si3	C37	C38	176.13(14)	Pd4	Si3	C37	C42	-9.1(2)
Pd5	Si3	C25	Pd4	5.78(12)	Pd5	Si3	C25	C26	105.09(19)
Pd5	Si3	C25	C30	-71.9(3)	Pd5	Si3	C31	C32	-6.9(3)
Pd5	Si3	C31	C36	171.30(19)	Pd5	Si3	C37	C38	-115.30(19)
Pd5	Si3	C37	C42	59.4(2)	C25	Si3	C31	C32	134.7(2)
C25	Si3	C31	C36	-47.2(3)	C31	Si3	C25	Pd4	-126.52(12)
C31	Si3	C25	C26	-27.2(3)	C31	Si3	C25	C30	155.8(2)
C25	Si3	C37	C38	110.6(2)	C25	Si3	C37	C42	-74.7(2)
C37	Si3	C25	Pd4	121.23(11)	C37	Si3	C25	C26	-139.5(2)
C37	Si3	C25	C30	43.6(3)	C31	Si3	C37	C38	1.2(2)

C31	Si3	C37	C42	175.94(18)	C37	Si3	C31	C32	-115.8(2)
C37	Si3	C31	C36	62.3(3)	Pd2	Si4	Si5	Pd2	0.0
Pd2	Si4	Si5	Pd3	-48.64(3)	Pd2	Si4	Si5	Pd4	-130.31(4)
Pd2	Si4	Si5	Pd5	-168.15(3)	Pd2	Si4	Si5	C55	88.60(3)
Pd2	Si4	C43	C44	-44.0(2)	Pd2	Si4	C43	C48	137.79(16)
Pd2	Si4	C49	C50	-106.8(2)	Pd2	Si4	C49	C54	70.2(2)
Pd5	Si4	Si5	Pd2	168.15(3)	Pd5	Si4	Si5	Pd3	119.52(4)
Pd5	Si4	Si5	Pd4	37.84(3)	Pd5	Si4	Si5	Pd5	0.0
Pd5	Si4	Si5	C55	-103.25(3)	Pd5	Si4	C43	C44	90.94(18)
Pd5	Si4	C43	C48	-87.28(19)	Pd5	Si4	C49	C50	136.5(2)
Pd5	Si4	C49	C54	-46.5(2)	Si5	Si4	C43	C44	30.8(3)
Si5	Si4	C43	C48	-147.41(14)	C43	Si4	Si5	Pd2	-108.11(14)
C43	Si4	Si5	Pd3	-156.75(13)	C43	Si4	Si5	Pd4	121.58(14)
C43	Si4	Si5	Pd5	83.74(14)	C43	Si4	Si5	C55	-19.51(15)
Si5	Si4	C49	C50	-166.49(19)	Si5	Si4	C49	C54	10.5(3)
C49	Si4	Si5	Pd2	84.98(12)	C49	Si4	Si5	Pd3	36.34(12)
C49	Si4	Si5	Pd4	-45.33(12)	C49	Si4	Si5	Pd5	-83.17(12)
C49	Si4	Si5	C55	173.58(12)	C43	Si4	C49	C50	24.3(3)
C43	Si4	C49	C54	-158.7(2)	C49	Si4	C43	C44	-161.96(18)
C49	Si4	C43	C48	19.8(2)	Pd2	Si5	C55	C56	118.76(18)
Pd2	Si5	C55	C60	-57.2(2)	Pd3	Si5	C55	C56	-168.84(14)
Pd3	Si5	C55	C60	15.2(2)	Pd4	Si5	C55	C56	-86.4(2)
Pd4	Si5	C55	C60	97.63(19)	Pd5	Si5	C55	C56	-9.0(2)
Pd5	Si5	C55	C60	175.08(16)	Si4	Si5	C55	C56	57.6(2)
Si4	Si5	C55	C60	-118.33(18)	C96	O1	C97	C98	178.0(6)
C97	O1	C96	C95	179.4(6)	Si1	C1	C2	C3	177.8(2)
Si1	C1	C6	C5	-177.5(2)	C2	C1	C6	C5	-0.8(5)
C6	C1	C2	C3	0.9(5)	C1	C2	C3	C4	-0.7(6)
C2	C3	C4	C5	0.5(6)	C3	C4	C5	C6	-0.4(6)
C4	C5	C6	C1	0.6(6)	Si1	C7	C8	C9	-175.2(2)
Si1	C7	C12	C11	175.7(2)	C8	C7	C12	C11	0.7(5)
C12	C7	C8	C9	-0.6(5)	C7	C8	C9	C10	0.1(6)
C8	C9	C10	C11	0.4(7)	C9	C10	C11	C12	-0.3(7)
C10	C11	C12	C7	-0.3(6)	Si2	C13	C14	C15	173.7(2)
Si2	C13	C18	C17	-176.0(2)	C14	C13	C18	C17	-0.5(5)
C18	C13	C14	C15	-2.1(5)	C13	C14	C15	C16	2.7(6)
C14	C15	C16	C17	-0.8(7)	C15	C16	C17	C18	-1.7(7)
C16	C17	C18	C13	2.3(7)	Si2	C19	C20	C21	-171.7(2)
Si2	C19	C24	C23	172.9(2)	C20	C19	C24	C23	-0.9(5)

C24	C19	C20	C21	1.6(5)	C19	C20	C21	C22	-1.2(6)
C20	C21	C22	C23	-0.1(7)	C21	C22	C23	C24	0.8(7)
C22	C23	C24	C19	-0.2(7)	Pd4	C25	C26	C27	-100.4(3)
Pd4	C25	C30	C29	111.1(3)	Si3	C25	C26	C27	-179.3(2)
Si3	C25	C30	C29	179.4(2)	C26	C25	C30	C29	2.3(5)
C30	C25	C26	C27	-2.2(5)	C25	C26	C27	C28	0.7(6)
C26	C27	C28	C29	0.8(7)	C27	C28	C29	C30	-0.7(6)
C28	C29	C30	C25	-0.9(6)	Si3	C31	C32	C33	176.5(2)
Si3	C31	C36	C35	-176.6(2)	C32	C31	C36	C35	1.7(5)
C36	C31	C32	C33	-1.8(5)	C31	C32	C33	C34	1.3(6)
C32	C33	C34	C35	-0.7(7)	C33	C34	C35	C36	0.6(7)
C34	C35	C36	C31	-1.1(7)	Si3	C37	C38	C39	174.7(2)
Si3	C37	C42	C41	-176.2(2)	C38	C37	C42	C41	-1.1(5)
C42	C37	C38	C39	-0.2(5)	C37	C38	C39	C40	0.9(6)
C38	C39	C40	C41	-0.3(6)	C39	C40	C41	C42	-1.0(6)
C40	C41	C42	C37	1.7(6)	Si4	C43	C44	C45	178.48(18)
Si4	C43	C48	C47	-177.86(19)	C44	C43	C48	C47	3.9(4)
C48	C43	C44	C45	-3.2(4)	C43	C44	C45	C46	0.2(5)
C44	C45	C46	C47	2.2(6)	C45	C46	C47	C48	-1.5(6)
C46	C47	C48	C43	-1.6(5)	Si4	C49	C50	C51	178.4(2)
Si4	C49	C54	C53	-178.6(2)	C50	C49	C54	C53	-1.3(5)
C54	C49	C50	C51	1.4(5)	C49	C50	C51	C52	-0.4(7)
C50	C51	C52	C53	-0.8(7)	C51	C52	C53	C54	0.9(7)
C52	C53	C54	C49	0.2(6)	Si5	C55	C56	C57	-174.2(2)
Si5	C55	C60	C59	173.8(2)	C56	C55	C60	C59	-2.3(5)
C60	C55	C56	C57	1.8(5)	C55	C56	C57	C58	0.0(6)
C56	C57	C58	C59	-1.5(8)	C57	C58	C59	C60	1.1(8)
C58	C59	C60	C55	0.9(6)	N1	C62	C63	C66	-101.2(4)
N1	C62	C63	C67	109.5(4)	N1	C62	C64	C67	-117.5(6)
N1	C62	C65	C66	105.2(3)	N1	C62	C65	C68	-88.2(12)
N1	C62	C66	C63	94.7(4)	N1	C62	C66	C65	-107.2(4)
N1	C62	C67	C63	-95.5(4)	N1	C62	C67	C64	72.0(7)
N1	C62	C68	C65	99.2(7)	C63	C62	C64	C67	-11.4(7)
C64	C62	C63	C66	156.3(5)	C64	C62	C63	C67	6.9(4)
C63	C62	C65	C66	-22.4(8)	C63	C62	C65	C68	144.2(11)
C65	C62	C63	C66	28.3(9)	C65	C62	C63	C67	-121.1(8)
C63	C62	C66	C63	0.0(5)	C63	C62	C66	C65	158.0(6)
C66	C62	C63	C66	0.0(4)	C66	C62	C63	C67	-149.3(6)
C63	C62	C67	C63	0.0(5)	C63	C62	C67	C64	167.6(9)

C67	C62	C63	C66	149.3(7)	C67	C62	C63	C67	0.0(4)
C63	C62	C68	C65	-52.9(14)	C68	C62	C63	C66	51.3(12)
C68	C62	C63	C67	-98.0(10)	C64	C62	C65	C66	-145.0(5)
C64	C62	C65	C68	21.6(14)	C65	C62	C64	C67	126.9(7)
C64	C62	C66	C63	-42.6(9)	C64	C62	C66	C65	115.4(9)
C66	C62	C64	C67	21.5(11)	C64	C62	C67	C63	-167.6(10)
C64	C62	C67	C64	0.0(6)	C67	C62	C64	C67	0.0(7)
C64	C62	C68	C65	-160.1(8)	C68	C62	C64	C67	135.0(6)
C65	C62	C66	C63	-158.0(6)	C65	C62	C66	C65	-0.0(5)
C66	C62	C65	C66	-0.0(3)	C66	C62	C65	C68	166.6(13)
C65	C62	C67	C63	121.2(8)	C65	C62	C67	C64	-71.3(11)
C67	C62	C65	C66	-110.3(7)	C67	C62	C65	C68	56.3(15)
C65	C62	C68	C65	0.0(13)	C68	C62	C65	C66	-166.6(15)
C68	C62	C65	C68	0.0(8)	C66	C62	C67	C63	25.8(5)
C66	C62	C67	C64	-166.6(6)	C67	C62	C66	C63	-30.0(6)
C67	C62	C66	C65	128.0(5)	C66	C62	C68	C65	-13.5(8)
C68	C62	C66	C63	-152.8(4)	C68	C62	C66	C65	5.2(3)
C67	C62	C68	C65	-134.6(8)	C68	C62	C67	C63	141.6(5)
C68	C62	C67	C64	-50.8(8)	C62	C63	C66	C62	0.00(14)
C62	C63	C66	C65	-15.4(4)	C62	C63	C67	C62	0.0(2)
C62	C63	C67	C64	-25.1(19)	C66	C63	C67	C62	-32.0(8)
C66	C63	C67	C64	-57(2)	C67	C63	C66	C62	27.3(7)
C67	C63	C66	C65	11.9(10)	C62	C64	C67	C62	0.00(16)
C62	C64	C67	C63	21.7(18)	C62	C65	C66	C62	-0.00(18)
C62	C65	C66	C63	18.9(5)	C62	C65	C68	C62	0.00(15)
C66	C65	C68	C62	24(2)	C68	C65	C66	C62	-29(3)
C68	C65	C66	C63	-10(3)	N2	C70	C71	C74	-97.2(12)
N2	C70	C72	C75	-94.5(13)	N2	C70	C73	C76	-89.7(10)
N2	C70	C74	C71	89.7(13)	N2	C70	C75	C72	91.7(11)
N2	C70	C76	C73	97.6(11)	C71	C70	C72	C75	151.7(13)
C72	C70	C71	C74	15.2(14)	C71	C70	C73	C76	30.8(13)
C73	C70	C71	C74	142.0(11)	C71	C70	C74	C71	-0.0(12)
C74	C70	C71	C74	-0.0(14)	C71	C70	C75	C72	-34.2(14)
C75	C70	C71	C74	28.1(15)	C71	C70	C76	C73	-152.6(12)
C76	C70	C71	C74	153.8(12)	C72	C70	C73	C76	155.1(11)
C73	C70	C72	C75	22.3(16)	C72	C70	C74	C71	-165.5(14)
C74	C70	C72	C75	157.2(15)	C72	C70	C75	C72	0.0(15)
C75	C70	C72	C75	0.0(11)	C72	C70	C76	C73	-32.2(17)
C76	C70	C72	C75	36(2)	C73	C70	C74	C71	-48.2(18)

C74	C70	C73	C76	48.4(15)	C73	C70	C75	C72	-159.4(11)
C75	C70	C73	C76	163.4(11)	C73	C70	C76	C73	0.0(11)
C76	C70	C73	C76	0.0(12)	C74	C70	C75	C72	-23.9(13)
C75	C70	C74	C71	-156.6(13)	C74	C70	C76	C73	-142.5(11)
C76	C70	C74	C71	-28.9(16)	C75	C70	C76	C73	-18.2(14)
C76	C70	C75	C72	-152.2(10)	C70	C71	C74	C70	0.00(16)
C70	C72	C75	C70	0.00(15)	C70	C73	C76	C70	0.00(17)
N3	C78	C79	C82	-71.3(7)	N3	C78	C79	C83	108.2(3)
N3	C78	C80	C83	-104.3(5)	N3	C78	C81	C84	-90.4(9)
N3	C78	C82	C79	116.0(11)	N3	C78	C83	C79	-109.3(5)
N3	C78	C83	C80	84.5(14)	N3	C78	C84	C81	96.8(13)
C79	C78	C80	C83	14.8(7)	C80	C78	C79	C82	173.4(6)
C80	C78	C79	C83	-7.1(3)	C79	C78	C81	C84	147.2(9)
C81	C78	C79	C82	49.7(8)	C81	C78	C79	C83	-130.8(6)
C79	C78	C82	C79	-0.0(7)	C82	C78	C79	C82	0.0(13)
C82	C78	C79	C83	179.5(14)	C79	C78	C83	C79	0.0(3)
C79	C78	C83	C80	-166.2(14)	C83	C78	C79	C82	-179.5(10)
C83	C78	C79	C83	0.0(8)	C79	C78	C84	C81	-41.4(19)
C84	C78	C79	C82	65.7(12)	C84	C78	C79	C83	-114.8(10)
C80	C78	C81	C84	22.7(10)	C81	C78	C80	C83	140.3(6)
C80	C78	C82	C79	-9.6(19)	C82	C78	C80	C83	19.7(13)
C80	C78	C83	C79	166.2(15)	C80	C78	C83	C80	0.0(5)
C83	C78	C80	C83	0.0(15)	C80	C78	C84	C81	-158.7(14)
C84	C78	C80	C83	148.9(7)	C81	C78	C82	C79	-135.3(12)
C82	C78	C81	C84	168.9(11)	C81	C78	C83	C79	114.3(9)
C81	C78	C83	C80	-51.8(18)	C83	C78	C81	C84	46.5(15)
C81	C78	C84	C81	-0.0(9)	C84	C78	C81	C84	-0.0(15)
C82	C78	C83	C79	-0.3(8)	C82	C78	C83	C80	-166.4(12)
C83	C78	C82	C79	0.6(16)	C82	C78	C84	C81	-12.2(18)
C84	C78	C82	C79	-130.6(12)	C83	C78	C84	C81	-142.9(14)
C84	C78	C83	C79	132.0(7)	C84	C78	C83	C80	-34.2(17)
C78	C79	C82	C78	0.00(15)	C78	C79	C83	C78	0.0(2)
C78	C79	C83	C80	17.6(18)	C82	C79	C83	C78	1(2)
C82	C79	C83	C80	18(4)	C83	C79	C82	C78	-0.6(19)
C78	C80	C83	C78	0.00(14)	C78	C80	C83	C79	-13.2(14)
C78	C81	C84	C78	0.00(15)					

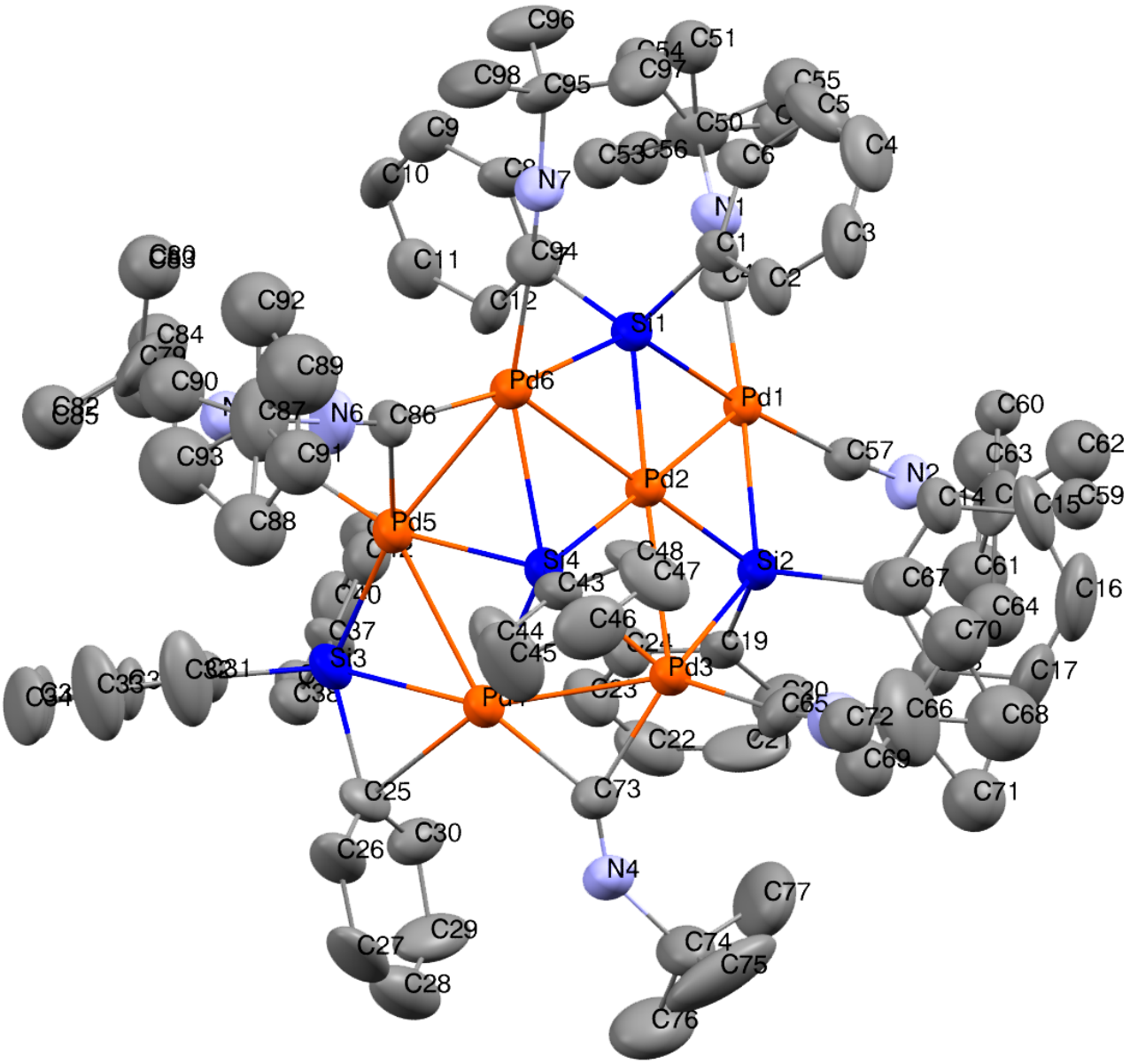


Figure S13. ORTEP drawing of **8** (50% probability of the thermal ellipsoids). Hydrogen atoms were omitted for clarity. Four ^{t}Bu groups were found to be disordered. The site occupancy factor for the carbons derived from the methyl groups on these four ^{t}Bu groups was defined to be 0.5.

Table S15-1. Crystal data and structure refinement for **8**.

Empirical Formula	$C_{78}H_{94}N_8Pd_6Si_4$
Formula Weight	1894.40
Crystal Color, Habit	red, platelet
Crystal Dimensions	0.100 X 0.050 X 0.020 mm
Crystal System	monoclinic
Lattice Type	C-centered
Lattice Parameters	a = 16.2926(6) Å b = 26.0709(10) Å c = 40.5668(15) Å β = 97.103(3) ° V = 17099.0(11) Å^3
Space Group	C2/c (#15)
Z value	8
D_{calc}	1.472 g/cm^3
F_{000}	7600.00
μ(MoKα)	13.349 cm^{-1}
Diffractometer	Saturn724
Radiation	MoKα (λ = 0.71075 Å) graphite monochromated
Temperature	-160.0°C
Detector Aperture	72.8 x 72.8 mm
Data Images	720 exposures
ω oscillation Range (χ=45.0, ϕ=0.0)	-70.0 - 110.0°
Exposure Rate	64.0 sec./°
Detector Swing Angle	20.00°
ω oscillation Range (χ=45.0, ϕ=90.0)	-70.0 - 110.0°
Exposure Rate	64.0 sec./°
Detector Swing Angle	20.00°
Detector Position	45.00 mm
Pixel Size	0.035 mm
$2\theta_{max}$	62.4°
No. of Reflections Measured	Total: 80958 Unique: 24997 (R_{int} = 0.1748)
Corrections	Lorentz-polarization Absorption (trans. factors: 0.940 - 0.974)
Structure Solution	Direct Methods (SHELXT Version 2014/5)
Refinement	Full-matrix least-squares on F^2

Function Minimized	Σ w (Fo^2 - Fc^2)^2
Least Squares Weights	w = 1/ [$\sigma^2(Fo^2)$ + (0.0594 · P)^2 + 0.0000 · P] where P = (Max(Fo^2,0) + 2Fc^2)/3
$2\theta_{max}$ cutoff	62.4^o
Anomalous Dispersion	All non-hydrogen atoms
No. Observations (All reflections)	18387
No. Variables	886
Reflection/Parameter Ratio	20.75
Residuals: R1 (I>2.00σ(I))	0.0876
Residuals: R (All reflections)	0.2807
Residuals: wR2 (All reflections)	0.2170
Goodness of Fit Indicator	0.962
Max Shift/Error in Final Cycle	0.001
Maximum peak in Final Diff. Map	0.93 e^-/Å^3
Minimum peak in Final Diff. Map	-0.70 e^-/Å^3

Table S15-2. Atomic coordinates and B_{iso}/B_{eq}

atom	x	y	z	B_{eq}	occ
Pd1	0.61708(5)	0.63516(3)	0.34274(2)	2.627(17)	1
Pd2	0.71114(5)	0.57183(3)	0.38644(2)	2.762(17)	1
Pd3	0.87787(5)	0.59045(3)	0.40291(2)	3.164(18)	1
Pd4	0.91451(5)	0.49474(3)	0.38404(2)	3.244(19)	1
Pd5	0.76877(5)	0.43587(3)	0.38111(2)	3.326(19)	1
Pd6	0.64475(5)	0.48416(3)	0.41008(2)	2.915(17)	1
Si1	0.57310(17)	0.55900(11)	0.37535(6)	2.63(6)	1
Si2	0.76617(18)	0.64436(12)	0.36775(7)	3.02(6)	1
Si3	0.88227(19)	0.41861(13)	0.34969(7)	3.44(6)	1
Si4	0.79873(18)	0.51172(11)	0.41164(7)	2.74(6)	1
N1	0.4406(6)	0.6227(4)	0.3029(2)	3.7(2)	1
N2	0.6581(6)	0.7412(4)	0.3115(2)	4.0(2)	1
N3	0.9214(7)	0.6666(5)	0.4613(3)	6.1(3)	1
N4	1.0541(6)	0.5718(4)	0.3891(3)	5.1(2)	1
N5	0.6701(6)	0.3489(4)	0.3395(2)	4.6(2)	1
N6	0.6983(7)	0.3777(4)	0.4383(3)	5.7(3)	1
N7	0.4787(6)	0.4786(4)	0.4426(2)	3.55(19)	1
C1	0.5040(6)	0.5938(4)	0.4011(2)	2.9(2)	1
C2	0.5397(8)	0.6156(4)	0.4305(3)	4.2(3)	1
C3	0.5002(11)	0.6481(5)	0.4502(3)	6.0(3)	1
C4	0.4191(11)	0.6585(6)	0.4411(4)	6.5(4)	1
C5	0.3784(10)	0.6386(6)	0.4128(4)	7.3(4)	1
C6	0.4228(8)	0.6059(5)	0.3933(3)	4.5(3)	1
C7	0.5134(6)	0.5125(4)	0.3463(2)	2.9(2)	1
C8	0.4420(7)	0.4875(5)	0.3519(3)	4.0(2)	1
C9	0.4063(8)	0.4491(5)	0.3312(3)	5.3(3)	1
C10	0.4416(8)	0.4355(5)	0.3039(3)	4.8(3)	1
C11	0.5115(8)	0.4596(5)	0.2982(3)	5.2(3)	1
C12	0.5470(7)	0.4978(4)	0.3181(3)	3.7(2)	1
C13	0.7746(7)	0.7113(5)	0.3869(3)	3.8(2)	1
C14	0.7050(8)	0.7316(5)	0.3994(3)	4.4(3)	1
C15	0.7077(11)	0.7803(6)	0.4135(3)	6.2(4)	1
C16	0.7774(14)	0.8081(6)	0.4138(4)	8.2(5)	1
C17	0.8493(12)	0.7909(6)	0.4038(4)	7.9(5)	1
C18	0.8451(8)	0.7422(5)	0.3892(3)	5.3(3)	1
C19	0.8266(6)	0.6410(4)	0.3302(3)	3.2(2)	1
C20	0.8596(8)	0.6823(5)	0.3149(3)	5.8(3)	1

C21	0.8952(8)	0.6747(7)	0.2851(3)	7.4(4)	1
C22	0.8994(9)	0.6246(7)	0.2721(4)	6.5(4)	1
C23	0.8654(8)	0.5849(6)	0.2867(3)	5.4(3)	1
C24	0.8316(7)	0.5931(5)	0.3154(3)	4.2(3)	1
C25	0.9960(7)	0.4440(5)	0.3526(3)	4.3(3)	1
C26	1.0569(8)	0.4244(5)	0.3769(3)	5.4(3)	1
C27	1.1390(10)	0.4406(7)	0.3774(5)	7.7(5)	1
C28	1.1609(11)	0.4757(8)	0.3559(5)	7.8(5)	1
C29	1.1038(9)	0.4948(7)	0.3330(4)	7.2(4)	1
C30	1.0204(8)	0.4813(5)	0.3308(3)	4.8(3)	1
C31	0.9041(7)	0.3479(4)	0.3560(3)	3.8(2)	1
C32	0.9174(11)	0.3267(6)	0.3873(3)	8.5(5)	1
C33	0.9397(11)	0.2767(6)	0.3938(4)	8.7(5)	1
C34	0.9490(9)	0.2459(5)	0.3679(4)	6.6(4)	1
C35	0.9338(9)	0.2635(5)	0.3370(4)	5.8(3)	1
C36	0.9126(8)	0.3139(4)	0.3303(3)	4.5(3)	1
C37	0.8438(7)	0.4308(4)	0.3047(2)	3.5(2)	1
C38	0.8927(7)	0.4227(4)	0.2793(3)	4.3(3)	1
C39	0.8657(7)	0.4348(5)	0.2461(3)	4.1(3)	1
C40	0.7897(9)	0.4534(5)	0.2374(3)	4.8(3)	1
C41	0.7364(8)	0.4599(5)	0.2612(3)	4.9(3)	1
C42	0.7658(8)	0.4501(4)	0.2946(3)	4.3(3)	1
C43	0.8322(6)	0.5063(5)	0.4580(3)	3.5(2)	1
C44	0.8846(8)	0.4706(6)	0.4724(3)	6.1(3)	1
C45	0.9135(9)	0.4682(6)	0.5061(3)	7.2(4)	1
C46	0.8835(9)	0.5040(7)	0.5262(3)	6.6(4)	1
C47	0.8323(9)	0.5409(6)	0.5139(3)	6.2(4)	1
C48	0.8051(7)	0.5414(5)	0.4798(3)	4.8(3)	1
C49	0.5030(7)	0.6249(4)	0.3188(3)	3.1(2)	1
C50	0.3615(7)	0.6146(5)	0.2803(3)	4.7(3)	1
C51	0.2954(17)	0.6000(11)	0.3013(6)	5.0(6)	1/2
C52	0.3417(14)	0.6643(9)	0.2606(6)	3.9(5)	1/2
C53	0.3888(16)	0.5707(11)	0.2530(6)	4.5(6)	1/2
C54	0.3094(14)	0.5727(10)	0.2965(5)	3.4(5)	1/2
C55	0.3154(19)	0.6670(12)	0.2787(8)	6.7(7)	1/2
C56	0.3784(17)	0.5960(12)	0.2470(7)	5.0(7)	1/2
C57	0.6472(7)	0.7027(5)	0.3225(3)	3.5(2)	1
C58	0.6649(9)	0.7949(5)	0.2993(3)	5.4(3)	1
C59	0.6678(17)	0.8316(10)	0.3277(6)	4.6(6)	1/2

C60	0.5771(15)	0.8000(9)	0.2721(6)	3.7(5)	1/2
C61	0.720(2)	0.7955(12)	0.2733(8)	7.5(8)	1/2
C62	0.621(2)	0.8306(14)	0.3220(8)	7.4(9)	1/2
C63	0.619(2)	0.7981(14)	0.2660(9)	7.6(9)	1/2
C64	0.7610(19)	0.8009(12)	0.2950(8)	7.1(8)	1/2
C65	0.9107(8)	0.6438(5)	0.4371(3)	4.8(3)	1
C66	0.9235(16)	0.6947(9)	0.4950(5)	11.9(7)	1
C67	0.8104(18)	0.6849(12)	0.4961(7)	6.1(7)	1/2
C68	0.918(3)	0.7502(17)	0.4887(9)	10.2(11)	1/2
C69	0.979(2)	0.6660(13)	0.5196(8)	5.8(8)	1/2
C70	0.851(2)	0.7173(15)	0.4953(8)	7.5(8)	1/2
C71	0.987(2)	0.7392(13)	0.4869(7)	7.0(8)	1/2
C72	0.9450(19)	0.6528(12)	0.5235(7)	5.2(7)	1/2
C73	0.9874(7)	0.5581(5)	0.3942(3)	4.0(2)	1
C74	1.1115(9)	0.6180(6)	0.3909(4)	6.6(4)	1
C75	1.1393(11)	0.6283(8)	0.4247(4)	12.6(8)	1
C76	1.1743(10)	0.6111(7)	0.3681(4)	10.1(6)	1
C77	1.0569(11)	0.6629(6)	0.3789(5)	10.8(6)	1
C78	0.7069(8)	0.3804(5)	0.3545(3)	4.1(3)	1
C79	0.6263(10)	0.3057(6)	0.3201(4)	7.1(4)	1
C80	0.540(2)	0.3032(13)	0.3272(8)	5.8(8)	1/2
C81	0.633(2)	0.3210(14)	0.2825(9)	6.7(9)	1/2
C82	0.6836(19)	0.2550(13)	0.3361(8)	6.5(8)	1/2
C83	0.549(2)	0.2984(14)	0.3421(9)	6.7(9)	1/2
C84	0.594(2)	0.3259(13)	0.2833(8)	6.1(8)	1/2
C85	0.6853(16)	0.2607(11)	0.3185(7)	4.5(6)	1/2
C86	0.6897(7)	0.4147(5)	0.4234(3)	3.8(2)	1
C87	0.7093(12)	0.3306(6)	0.4583(4)	7.7(4)	1
C88	0.810(2)	0.3278(14)	0.4704(9)	9.1(9)	1/2
C89	0.677(3)	0.3395(17)	0.4894(11)	11.5(12)	1/2
C90	0.684(2)	0.2878(13)	0.4362(8)	7.4(8)	1/2
C91	0.754(2)	0.3438(13)	0.4920(8)	7.5(8)	1/2
C92	0.616(2)	0.3217(14)	0.4660(10)	9.7(10)	1/2
C93	0.750(3)	0.2940(16)	0.4389(10)	10.4(11)	1/2
C94	0.5374(7)	0.4820(5)	0.4308(3)	3.7(2)	1
C95	0.3993(7)	0.4721(5)	0.4551(3)	4.0(3)	1
C96	0.3350(7)	0.4688(6)	0.4263(3)	7.3(4)	1
C97	0.3845(8)	0.5176(5)	0.4756(3)	6.5(4)	1
C98	0.4048(8)	0.4257(5)	0.4773(3)	6.9(4)	1

B_{eq} = 8/3 $\pi^2(U_{11}(aa^*)^2 + U_{22}(bb^*)^2 + U_{33}(cc^*)^2 + 2U_{12}(aa^*bb^*)\cos\gamma + 2U_{13}(aa^*cc^*)\cos\beta + 2U_{23}(bb^*cc^*)\cos\alpha)$

Table S15-3. Anisotropic displacement parameters

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Pd1	0.0364(5)	0.0314(5)	0.0317(4)	0.0008(4)	0.0032(4)	0.003(3)
Pd2	0.0340(5)	0.0349(5)	0.0353(5)	-0.0005(4)	0.0014(4)	0.004(4)
Pd3	0.0347(5)	0.0399(5)	0.0452(5)	-0.0001(4)	0.0030(4)	-0.006(6)
Pd4	0.0400(5)	0.0413(6)	0.0420(5)	0.0020(4)	0.0053(4)	-0.008(8)
Pd5	0.0445(5)	0.0394(6)	0.0429(5)	-0.0008(4)	0.0073(4)	-0.005(5)
Pd6	0.0369(5)	0.0367(5)	0.0370(5)	-0.0010(4)	0.0037(4)	0.006(6)
Si1	0.0344(17)	0.0355(18)	0.0302(15)	0.0013(14)	0.0049(13)	0.006(6)
Si2	0.0378(18)	0.0352(19)	0.0413(17)	-0.0016(15)	0.0038(14)	-0.0006(6)
Si3	0.0441(19)	0.047(2)	0.0398(18)	0.0101(16)	0.0034(15)	-0.009(9)
Si4	0.0394(18)	0.0344(18)	0.0291(15)	0.0020(14)	-0.0001(13)	-0.0010(10)
N1	0.046(6)	0.056(7)	0.039(6)	0.007(5)	0.007(5)	0.009(9)
N2	0.072(7)	0.042(7)	0.041(6)	-0.005(6)	0.019(5)	0.010(10)
N3	0.071(8)	0.080(9)	0.079(9)	-0.001(7)	0.000(7)	-0.015(15)
N4	0.047(7)	0.060(8)	0.088(8)	-0.007(6)	0.010(6)	-0.007(7)
N5	0.060(7)	0.053(7)	0.066(7)	-0.007(6)	0.020(6)	-0.007(7)
N6	0.090(9)	0.040(7)	0.083(8)	0.004(6)	-0.003(7)	0.018(18)
N7	0.049(6)	0.051(7)	0.036(5)	-0.003(5)	0.012(5)	0.009(9)
C1	0.038(7)	0.038(7)	0.032(6)	0.004(5)	-0.001(5)	0.009(9)
C2	0.072(9)	0.042(8)	0.045(7)	0.013(7)	0.010(7)	0.004(4)
C3	0.127(14)	0.047(9)	0.058(9)	0.010(9)	0.023(10)	-0.0013(13)
C4	0.133(16)	0.073(11)	0.049(9)	0.019(11)	0.035(10)	-0.012(12)
C5	0.080(11)	0.096(14)	0.110(13)	0.035(10)	0.046(10)	0.02(2)
C6	0.056(8)	0.063(9)	0.052(8)	0.003(7)	0.012(7)	-0.0013(13)
C7	0.042(7)	0.043(7)	0.025(6)	-0.001(6)	0.002(5)	0.009(9)
C8	0.036(7)	0.070(9)	0.045(7)	-0.003(6)	0.001(6)	-0.012(12)
C9	0.062(9)	0.073(11)	0.063(9)	-0.015(8)	-0.002(7)	-0.006(6)
C10	0.052(8)	0.047(8)	0.073(9)	-0.008(7)	-0.026(7)	-0.015(15)
C11	0.077(10)	0.069(10)	0.049(8)	0.009(8)	-0.003(7)	-0.004(4)
C12	0.054(8)	0.037(7)	0.050(7)	-0.008(6)	-0.002(6)	-0.007(7)
C13	0.056(8)	0.052(8)	0.036(6)	-0.000(7)	-0.001(6)	0.003(3)
C14	0.070(9)	0.046(8)	0.052(7)	0.009(7)	0.011(7)	-0.0003(3)
C15	0.117(14)	0.052(10)	0.066(9)	0.037(9)	0.006(9)	-0.018(18)
C16	0.17(2)	0.044(11)	0.092(12)	-0.005(12)	-0.003(14)	-0.02(2)

C17	0.113(15)	0.053(11)	0.129(15)	-0.027(10)	-0.003(12)	-0.03(3)
C18	0.058(9)	0.058(10)	0.082(10)	-0.005(7)	0.003(7)	-0.018(18)
C19	0.030(6)	0.042(7)	0.048(7)	0.001(5)	-0.005(5)	0.003(3)
C20	0.066(9)	0.073(11)	0.082(10)	-0.018(8)	0.020(8)	0.014(14)
C21	0.062(10)	0.162(19)	0.062(10)	-0.031(11)	0.031(8)	0.02(2)
C22	0.067(10)	0.124(16)	0.056(10)	0.019(10)	0.014(8)	-0.02(2)
C23	0.076(10)	0.074(11)	0.059(9)	0.013(8)	0.021(8)	-0.002(2)
C24	0.062(8)	0.054(9)	0.046(7)	0.002(7)	0.011(6)	0.0018(18)
C25	0.043(7)	0.074(10)	0.050(7)	0.009(7)	0.014(6)	-0.03(3)
C26	0.048(8)	0.079(11)	0.072(9)	0.015(8)	-0.022(7)	-0.015(15)
C27	0.051(11)	0.107(16)	0.122(15)	0.036(10)	-0.033(10)	-0.04(4)
C28	0.058(11)	0.14(2)	0.095(14)	0.013(12)	-0.005(11)	-0.06(6)
C29	0.069(11)	0.143(16)	0.071(10)	-0.040(11)	0.042(9)	-0.03(3)
C30	0.054(9)	0.075(10)	0.053(8)	-0.016(7)	0.011(7)	-0.010(10)
C31	0.057(8)	0.044(8)	0.041(7)	0.008(6)	-0.006(6)	-0.0015(15)
C32	0.189(19)	0.079(13)	0.047(9)	0.043(12)	-0.009(10)	-0.018(18)
C33	0.19(2)	0.063(12)	0.072(11)	0.049(12)	0.008(11)	0.017(17)
C34	0.134(15)	0.039(9)	0.077(11)	0.014(9)	0.011(10)	0.02(2)
C35	0.120(13)	0.030(8)	0.077(10)	-0.002(8)	0.031(9)	-0.03(3)
C36	0.087(10)	0.028(7)	0.053(8)	0.002(7)	0.005(7)	-0.012(12)
C37	0.036(7)	0.060(8)	0.036(6)	0.016(6)	-0.006(5)	0.0005(5)
C38	0.048(8)	0.059(9)	0.057(8)	0.006(6)	0.011(6)	-0.006(6)
C39	0.049(8)	0.057(9)	0.049(8)	0.007(7)	-0.001(6)	-0.009(9)
C40	0.093(11)	0.053(9)	0.033(7)	0.001(8)	0.003(7)	-0.0006(6)
C41	0.054(9)	0.059(9)	0.071(9)	0.008(7)	-0.007(7)	0.019(19)
C42	0.067(9)	0.052(8)	0.046(7)	-0.005(7)	0.006(7)	-0.000010(10)
C43	0.032(6)	0.050(8)	0.052(7)	0.002(6)	0.006(5)	0.005(5)
C44	0.093(11)	0.086(12)	0.051(9)	0.031(9)	0.003(8)	-0.012(12)
C45	0.121(14)	0.104(13)	0.040(9)	0.043(11)	-0.020(8)	0.019(19)
C46	0.093(12)	0.122(15)	0.035(8)	-0.019(11)	-0.004(8)	0.00015(15)
C47	0.083(11)	0.119(14)	0.036(8)	0.032(10)	0.018(7)	0.005(5)
C48	0.034(7)	0.100(11)	0.052(8)	0.018(7)	0.016(6)	0.003(3)
C49	0.038(7)	0.048(8)	0.036(6)	-0.001(6)	0.015(5)	0.010(10)
C50	0.051(8)	0.080(10)	0.043(7)	0.005(7)	-0.010(6)	0.03(3)
C57	0.042(7)	0.048(8)	0.044(7)	-0.000(6)	0.005(6)	0.0019(19)
C58	0.101(12)	0.034(8)	0.073(9)	-0.012(8)	0.020(8)	0.02(2)
C65	0.063(9)	0.054(9)	0.064(9)	-0.022(7)	0.009(7)	-0.014(14)
C66	0.21(3)	0.13(2)	0.118(16)	0.032(19)	0.039(17)	-0.06(6)
C73	0.045(7)	0.054(8)	0.054(7)	-0.007(6)	0.016(6)	-0.012(12)

C74	0.065(10)	0.072(12)	0.119(14)	-0.009(9)	0.038(10)	0.006(6)
C75	0.156(18)	0.25(3)	0.068(11)	-0.151(18)	0.002(11)	-0.02(2)
C76	0.103(14)	0.17(2)	0.121(14)	-0.044(13)	0.053(12)	-0.02(2)
C77	0.142(17)	0.068(13)	0.20(2)	-0.017(13)	0.045(15)	0.02(2)
C78	0.063(9)	0.039(8)	0.054(8)	-0.012(7)	0.011(7)	-0.007(7)
C79	0.100(13)	0.059(10)	0.112(13)	-0.047(9)	0.018(10)	-0.03(3)
C86	0.051(8)	0.040(8)	0.057(8)	0.004(6)	0.014(6)	0.009(9)
C87	0.156(18)	0.072(12)	0.066(10)	0.006(12)	0.016(11)	0.014(14)
C94	0.061(8)	0.054(8)	0.027(6)	-0.001(7)	0.005(6)	0.014(14)
C95	0.040(7)	0.068(10)	0.043(7)	-0.019(6)	-0.001(6)	0.00005(5)
C96	0.054(9)	0.158(16)	0.068(9)	-0.034(10)	0.012(8)	-0.018(18)
C97	0.081(11)	0.089(12)	0.083(10)	-0.022(9)	0.033(8)	-0.003(3)
C98	0.058(9)	0.102(13)	0.104(11)	-0.016(9)	0.018(8)	0.03(3)

The general temperature factor expression: $\exp(-2\pi^2(a^{*2}U_{11}h^2 + b^{*2}U_{22}k^2 + c^{*2}U_{33}l^2 + 2a^*b^*U_{12}hk + 2a^*c^*U_{13}hl + 2b^*c^*U_{23}kl))$

Table S15-4. Bond lengths (Å)

atom	atom	distance	atom	atom	distance
Pd1	Pd2	2.7469(11)	Pd1	Si1	2.538(3)
Pd1	Si2	2.525(3)	Pd1	C49	2.006(10)
Pd1	C57	2.029(12)	Pd2	Pd3	2.7591(11)
Pd2	Pd6	2.7514(11)	Pd2	Si1	2.263(3)
Pd2	Si2	2.263(3)	Pd2	Si4	2.275(3)
Pd3	Pd4	2.6984(11)	Pd3	Si2	2.585(3)
Pd3	Si4	2.473(3)	Pd3	C65	1.990(13)
Pd3	C73	2.043(12)	Pd4	Pd5	2.8175(11)
Pd4	Si3	2.445(3)	Pd4	Si4	2.352(3)
Pd4	C25	2.357(12)	Pd4	C73	2.047(12)
Pd5	Pd6	2.7634(12)	Pd5	Si3	2.414(3)
Pd5	Si4	2.352(3)	Pd5	C78	2.000(12)
Pd5	C86	2.336(12)	Pd6	Si1	2.598(3)
Pd6	Si4	2.603(3)	Pd6	C86	2.003(12)
Pd6	C94	2.032(12)	Si1	C1	1.863(11)
Si1	C7	1.877(10)	Si2	C13	1.908(12)
Si2	C19	1.915(11)	Si3	C25	1.958(12)
Si3	C31	1.888(12)	Si3	C37	1.883(10)
Si4	C43	1.898(11)	N1	C49	1.135(13)
N1	C50	1.501(14)	N2	C57	1.121(15)

N2	C58	1.494(16)	N3	C65	1.144(17)
N3	C66	1.55(2)	N4	C73	1.188(16)
N4	C74	1.521(19)	N5	C78	1.146(15)
N5	C79	1.505(18)	N6	C86	1.136(16)
N6	C87	1.472(19)	N7	C94	1.124(16)
N7	C95	1.458(15)	C1	C2	1.382(14)
C1	C6	1.358(16)	C2	C3	1.378(19)
C3	C4	1.35(2)	C4	C5	1.36(2)
C5	C6	1.42(2)	C7	C8	1.378(15)
C7	C12	1.381(15)	C8	C9	1.389(17)
C9	C10	1.354(19)	C10	C11	1.346(19)
C11	C12	1.365(17)	C13	C14	1.402(18)
C13	C18	1.397(18)	C14	C15	1.390(19)
C15	C16	1.35(3)	C16	C17	1.36(3)
C17	C18	1.40(2)	C19	C20	1.385(18)
C19	C24	1.392(17)	C20	C21	1.42(2)
C21	C22	1.41(3)	C22	C23	1.34(2)
C23	C24	1.366(18)	C25	C26	1.404(16)
C25	C30	1.405(18)	C26	C27	1.40(2)
C27	C28	1.34(3)	C28	C29	1.33(2)
C29	C30	1.40(2)	C31	C32	1.375(18)
C31	C36	1.392(16)	C32	C33	1.37(2)
C33	C34	1.35(2)	C34	C35	1.33(2)
C35	C36	1.376(17)	C37	C38	1.393(16)
C37	C42	1.381(16)	C38	C39	1.402(16)
C39	C40	1.335(18)	C40	C41	1.387(19)
C41	C42	1.401(17)	C43	C44	1.346(17)
C43	C48	1.383(17)	C44	C45	1.391(17)
C45	C46	1.37(2)	C46	C47	1.33(2)
C47	C48	1.398(17)	C50	C51	1.50(3)
C50	C52	1.54(3)	C50	C53	1.69(3)
C50	C54	1.57(3)	C50	C55	1.56(3)
C50	C56	1.50(3)	C51	C54	0.78(4)
C51	C55	2.02(4)	C52	C55	0.90(4)
C52	C56	1.98(4)	C53	C56	0.72(4)
C58	C59	1.49(3)	C58	C60	1.70(3)
C58	C61	1.47(4)	C58	C62	1.54(4)
C58	C63	1.46(4)	C58	C64	1.60(4)
C59	C62	0.77(4)	C60	C63	0.76(5)

C61	C63	1.64(5)		C61	C64	1.04(4)	
C66	C67	1.87(4)		C66	C68	1.47(5)	
C66	C69	1.47(4)		C66	C70	1.32(5)	
C66	C71	1.62(4)		C66	C72	1.60(4)	
C67	C70	1.07(5)		C68	C70	1.44(6)	
C68	C71	1.18(6)		C69	C72	0.68(5)	
C74	C75	1.41(2)		C74	C76	1.47(2)	
C74	C77	1.51(2)		C79	C80	1.48(4)	
C79	C81	1.59(4)		C79	C82	1.70(3)	
C79	C83	1.64(4)		C79	C84	1.61(4)	
C79	C85	1.52(3)		C80	C83	0.62(5)	
C81	C84	0.65(5)		C82	C85	0.73(4)	
C87	C88	1.65(4)		C87	C89	1.44(5)	
C87	C90	1.46(4)		C87	C91	1.51(3)	
C87	C92	1.60(4)		C87	C93	1.45(5)	
C88	C91	1.40(5)		C88	C93	1.74(5)	
C89	C91	1.24(6)		C89	C92	1.37(6)	
C90	C92	1.95(5)		C90	C93	1.09(6)	
C95	C96	1.473(15)		C95	C97	1.485(19)	
C95	C98	1.505(19)					

Table S15-5. Bond angles (°)

atom	atom	atom	angle	atom	atom	atom	angle
Pd2	Pd1	Si1	50.52(6)	Pd2	Pd1	Si2	50.63(7)
Pd2	Pd1	C49	129.9(3)	Pd2	Pd1	C57	129.7(3)
Si1	Pd1	Si2	100.63(9)	Si1	Pd1	C49	81.0(3)
Si1	Pd1	C57	171.2(3)	Si2	Pd1	C49	174.2(3)
Si2	Pd1	C57	79.1(3)	C49	Pd1	C57	100.2(4)
Pd1	Pd2	Pd3	120.30(4)	Pd1	Pd2	Pd6	120.81(4)
Pd1	Pd2	Si1	59.94(7)	Pd1	Pd2	Si2	59.61(7)
Pd1	Pd2	Si4	166.62(9)	Pd3	Pd2	Pd6	118.65(4)
Pd3	Pd2	Si1	176.94(8)	Pd3	Pd2	Si2	61.00(8)
Pd3	Pd2	Si4	57.88(8)	Pd6	Pd2	Si1	61.49(7)
Pd6	Pd2	Si2	179.18(8)	Pd6	Pd2	Si4	61.51(8)
Si1	Pd2	Si2	118.81(11)	Si1	Pd2	Si4	122.70(11)
Si2	Pd2	Si4	118.26(11)	Pd2	Pd3	Pd4	90.82(3)
Pd2	Pd3	Si2	49.99(7)	Pd2	Pd3	Si4	51.20(7)
Pd2	Pd3	C65	117.6(4)	Pd2	Pd3	C73	137.8(3)

Pd4	Pd3	Si2	120.78(7)	Pd4	Pd3	Si4	53.89(7)
Pd4	Pd3	C65	142.6(4)	Pd4	Pd3	C73	48.8(3)
Si2	Pd3	Si4	100.74(10)	Si2	Pd3	C65	96.6(4)
Si2	Pd3	C73	134.4(3)	Si4	Pd3	C65	125.5(4)
Si4	Pd3	C73	99.5(3)	C65	Pd3	C73	104.1(5)
Pd3	Pd4	Pd5	107.51(4)	Pd3	Pd4	Si3	150.81(8)
Pd3	Pd4	Si4	58.15(7)	Pd3	Pd4	C25	146.2(3)
Pd3	Pd4	C73	48.7(3)	Pd5	Pd4	Si3	54.06(8)
Pd5	Pd4	Si4	53.21(7)	Pd5	Pd4	C25	101.5(3)
Pd5	Pd4	C73	155.9(3)	Si3	Pd4	Si4	107.20(11)
Si3	Pd4	C25	48.1(3)	Si3	Pd4	C73	148.1(3)
Si4	Pd4	C25	154.4(3)	Si4	Pd4	C73	103.4(3)
C25	Pd4	C73	102.1(4)	Pd4	Pd5	Pd6	112.99(4)
Pd4	Pd5	Si3	55.06(8)	Pd4	Pd5	Si4	53.19(8)
Pd4	Pd5	C78	141.5(4)	Pd4	Pd5	C86	129.5(3)
Pd6	Pd5	Si3	163.23(9)	Pd6	Pd5	Si4	60.54(8)
Pd6	Pd5	C78	102.3(4)	Pd6	Pd5	C86	45.3(3)
Si3	Pd5	Si4	108.18(11)	Si3	Pd5	C78	87.0(4)
Si3	Pd5	C86	150.7(3)	Si4	Pd5	C78	161.7(4)
Si4	Pd5	C86	84.8(3)	C78	Pd5	C86	86.5(5)
Pd2	Pd6	Pd5	83.72(3)	Pd2	Pd6	Si1	49.96(7)
Pd2	Pd6	Si4	50.20(7)	Pd2	Pd6	C86	134.3(3)
Pd2	Pd6	C94	124.2(3)	Pd5	Pd6	Si1	114.50(7)
Pd5	Pd6	Si4	51.89(7)	Pd5	Pd6	C86	56.0(3)
Pd5	Pd6	C94	151.0(3)	Si1	Pd6	Si4	99.96(9)
Si1	Pd6	C86	161.9(3)	Si1	Pd6	C94	83.9(3)
Si4	Pd6	C86	85.6(3)	Si4	Pd6	C94	150.9(3)
C86	Pd6	C94	99.7(5)	Pd1	Si1	Pd2	69.53(8)
Pd1	Si1	Pd6	137.18(12)	Pd1	Si1	C1	98.0(3)
Pd1	Si1	C7	109.6(3)	Pd2	Si1	Pd6	68.55(8)
Pd2	Si1	C1	118.1(3)	Pd2	Si1	C7	130.2(4)
Pd6	Si1	C1	108.9(3)	Pd6	Si1	C7	91.1(3)
C1	Si1	C7	111.4(5)	Pd1	Si2	Pd2	69.76(9)
Pd1	Si2	Pd3	138.31(13)	Pd1	Si2	C13	105.5(4)
Pd1	Si2	C19	103.9(3)	Pd2	Si2	Pd3	69.01(9)
Pd2	Si2	C13	129.7(4)	Pd2	Si2	C19	119.5(4)
Pd3	Si2	C13	105.2(3)	Pd3	Si2	C19	91.0(3)
C13	Si2	C19	110.3(5)	Pd4	Si3	Pd5	70.88(9)
Pd4	Si3	C25	63.6(4)	Pd4	Si3	C31	133.7(3)

Pd4	Si3	C37	115.9(4)	Pd5	Si3	C25	133.3(4)
Pd5	Si3	C31	104.7(4)	Pd5	Si3	C37	107.2(4)
C25	Si3	C31	99.3(5)	C25	Si3	C37	101.6(5)
C31	Si3	C37	109.4(5)	Pd2	Si4	Pd3	70.92(9)
Pd2	Si4	Pd4	114.28(12)	Pd2	Si4	Pd5	105.35(11)
Pd2	Si4	Pd6	68.29(8)	Pd2	Si4	C43	125.8(4)
Pd3	Si4	Pd4	67.97(8)	Pd3	Si4	Pd5	134.46(13)
Pd3	Si4	Pd6	138.06(12)	Pd3	Si4	C43	96.5(4)
Pd4	Si4	Pd5	73.59(9)	Pd4	Si4	Pd6	139.81(12)
Pd4	Si4	C43	108.0(4)	Pd5	Si4	Pd6	67.57(8)
Pd5	Si4	C43	118.3(4)	Pd6	Si4	C43	99.3(3)
C49	N1	C50	173.6(11)	C57	N2	C58	173.1(12)
C65	N3	C66	171.8(15)	C73	N4	C74	143.1(12)
C78	N5	C79	176.6(12)	C86	N6	C87	178.6(13)
C94	N7	C95	174.9(10)	Si1	C1	C2	117.7(8)
Si1	C1	C6	128.4(8)	C2	C1	C6	113.5(10)
C1	C2	C3	125.2(12)	C2	C3	C4	118.5(12)
C3	C4	C5	120.7(15)	C4	C5	C6	118.2(14)
C1	C6	C5	123.9(11)	Si1	C7	C8	125.7(8)
Si1	C7	C12	118.2(8)	C8	C7	C12	115.8(9)
C7	C8	C9	122.6(11)	C8	C9	C10	119.7(12)
C9	C10	C11	118.2(12)	C10	C11	C12	123.0(12)
C7	C12	C11	120.6(11)	Si2	C13	C14	118.2(9)
Si2	C13	C18	124.9(10)	C14	C13	C18	116.9(11)
C13	C14	C15	120.5(12)	C14	C15	C16	118.6(15)
C15	C16	C17	125.1(15)	C16	C17	C18	115.3(15)
C13	C18	C17	123.3(13)	Si2	C19	C20	126.0(9)
Si2	C19	C24	116.6(8)	C20	C19	C24	117.1(11)
C19	C20	C21	119.8(13)	C20	C21	C22	119.4(15)
C21	C22	C23	120.4(14)	C22	C23	C24	119.1(14)
C19	C24	C23	124.1(12)	Pd4	C25	Si3	68.3(4)
Pd4	C25	C26	102.8(8)	Pd4	C25	C30	100.1(8)
Si3	C25	C26	120.0(9)	Si3	C25	C30	122.3(8)
C26	C25	C30	117.7(11)	C25	C26	C27	119.4(13)
C26	C27	C28	121.7(15)	C27	C28	C29	119.4(16)
C28	C29	C30	122.9(15)	C25	C30	C29	118.9(11)
Si3	C31	C32	121.6(10)	Si3	C31	C36	123.7(8)
C32	C31	C36	114.6(11)	C31	C32	C33	124.5(14)
C32	C33	C34	118.1(14)	C33	C34	C35	120.3(13)

C34	C35	C36	121.9(13)	C31	C36	C35	120.4(11)
Si3	C37	C38	122.6(8)	Si3	C37	C42	122.2(8)
C38	C37	C42	115.2(9)	C37	C38	C39	122.4(10)
C38	C39	C40	120.3(11)	C39	C40	C41	120.2(11)
C40	C41	C42	118.7(11)	C37	C42	C41	123.0(11)
Si4	C43	C44	124.8(9)	Si4	C43	C48	120.6(8)
C44	C43	C48	114.6(10)	C43	C44	C45	125.2(13)
C44	C45	C46	116.9(13)	C45	C46	C47	121.6(13)
C46	C47	C48	119.0(13)	C43	C48	C47	122.6(12)
Pd1	C49	N1	172.8(10)	N1	C50	C51	108.2(12)
N1	C50	C52	107.9(12)	N1	C50	C53	102.7(11)
N1	C50	C54	108.1(11)	N1	C50	C55	106.0(14)
N1	C50	C56	111.0(13)	C51	C50	C52	112.9(16)
C51	C50	C53	117.8(17)	C51	C50	C54	29.2(14)
C51	C50	C55	82.5(17)	C51	C50	C56	131.0(17)
C52	C50	C53	106.5(14)	C52	C50	C54	135.4(14)
C52	C50	C55	33.7(15)	C52	C50	C56	81.5(15)
C53	C50	C54	90.2(14)	C53	C50	C55	136.9(16)
C53	C50	C56	25.0(15)	C54	C50	C55	110.1(16)
C54	C50	C56	108.7(16)	C55	C50	C56	112.8(17)
C50	C51	C54	81(3)	C50	C51	C55	49.9(13)
C54	C51	C55	128(3)	C50	C52	C55	74(3)
C50	C52	C56	48.4(11)	C55	C52	C56	119(3)
C50	C53	C56	62(3)	C50	C54	C51	70(3)
C50	C55	C51	47.5(13)	C50	C55	C52	72(3)
C51	C55	C52	115(3)	C50	C56	C52	50.1(12)
C50	C56	C53	93(3)	C52	C56	C53	143(4)
Pd1	C57	N2	174.9(10)	N2	C58	C59	110.0(14)
N2	C58	C60	101.4(12)	N2	C58	C61	109.0(15)
N2	C58	C62	107.9(16)	N2	C58	C63	108.1(16)
N2	C58	C64	104.0(14)	C59	C58	C60	113.3(16)
C59	C58	C61	125.5(19)	C59	C58	C62	29.2(16)
C59	C58	C63	129.7(19)	C59	C58	C64	94.7(17)
C60	C58	C61	94.3(16)	C60	C58	C62	85.8(16)
C60	C58	C63	26.4(17)	C60	C58	C64	132.5(16)
C61	C58	C62	142(2)	C61	C58	C63	68(2)
C61	C58	C64	39.4(17)	C62	C58	C63	107(2)
C62	C58	C64	122.3(19)	C63	C58	C64	107(2)
C58	C59	C62	79(3)	C58	C60	C63	59(3)

C58	C61	C63	55.8(18)	C58	C61	C64	77(3)
C63	C61	C64	132(4)	C58	C62	C59	72(3)
C58	C63	C60	95(4)	C58	C63	C61	56.3(18)
C60	C63	C61	151(4)	C58	C64	C61	63(3)
Pd3	C65	N3	164.1(12)	N3	C66	C67	92.4(15)
N3	C66	C68	109(2)	N3	C66	C69	108(2)
N3	C66	C70	107(2)	N3	C66	C71	96.1(17)
N3	C66	C72	107.1(18)	C67	C66	C68	96(2)
C67	C66	C69	116(2)	C67	C66	C70	34(2)
C67	C66	C71	140(2)	C67	C66	C72	91.1(19)
C68	C66	C69	130(3)	C68	C66	C70	62(3)
C68	C66	C71	45(2)	C68	C66	C72	143(2)
C69	C66	C70	134(3)	C69	C66	C71	98(2)
C69	C66	C72	25.3(18)	C70	C66	C71	106(3)
C70	C66	C72	114(3)	C71	C66	C72	123(2)
C66	C67	C70	44(2)	C66	C68	C70	54(2)
C66	C68	C71	74(3)	C70	C68	C71	129(4)
C66	C69	C72	88(4)	C66	C70	C67	102(3)
C66	C70	C68	64(3)	C67	C70	C68	163(4)
C66	C71	C68	61(3)	C66	C72	C69	67(4)
Pd3	C73	Pd4	82.6(4)	Pd3	C73	N4	138.1(10)
Pd4	C73	N4	136.7(10)	N4	C74	C75	108.6(14)
N4	C74	C76	109.9(13)	N4	C74	C77	105.2(11)
C75	C74	C76	118.0(13)	C75	C74	C77	105.8(15)
C76	C74	C77	108.5(14)	Pd5	C78	N5	178.6(11)
N5	C79	C80	109.4(17)	N5	C79	C81	103.3(16)
N5	C79	C82	100.3(14)	N5	C79	C83	98.4(15)
N5	C79	C84	108.7(15)	N5	C79	C85	109.8(14)
C80	C79	C81	112(2)	C80	C79	C82	112.6(19)
C80	C79	C83	22.1(17)	C80	C79	C84	89.2(19)
C80	C79	C85	126.8(19)	C81	C79	C82	117(2)
C81	C79	C83	134(2)	C81	C79	C84	23.5(18)
C81	C79	C85	92.0(19)	C82	C79	C83	97.0(18)
C82	C79	C84	135.3(19)	C82	C79	C85	25.5(16)
C83	C79	C84	111.1(19)	C83	C79	C85	117.6(19)
C84	C79	C85	110.4(19)	C79	C80	C83	93(5)
C79	C81	C84	79(4)	C79	C82	C85	64(3)
C79	C83	C80	65(5)	C79	C84	C81	77(4)
C79	C85	C82	91(4)	Pd5	C86	Pd6	78.7(4)

Pd5	C86	N6	123.2(10)	Pd6	C86	N6	158.0(11)
N6	C87	C88	104.5(17)	N6	C87	C89	108(2)
N6	C87	C90	107.1(16)	N6	C87	C91	108.7(17)
N6	C87	C92	100.1(18)	N6	C87	C93	107(2)
C88	C87	C89	101(2)	C88	C87	C90	110(2)
C88	C87	C91	52.3(19)	C88	C87	C92	149(2)
C88	C87	C93	68(2)	C89	C87	C90	124(3)
C89	C87	C91	50(2)	C89	C87	C92	53(2)
C89	C87	C93	145(3)	C90	C87	C91	143(2)
C90	C87	C92	79(2)	C90	C87	C93	44(2)
C91	C87	C92	103(2)	C91	C87	C93	116(2)
C92	C87	C93	121(2)	C87	C88	C91	59(2)
C87	C88	C93	50.5(18)	C91	C88	C93	105(3)
C87	C89	C91	68(3)	C87	C89	C92	69(3)
C91	C89	C92	136(4)	C87	C90	C92	53.8(17)
C87	C90	C93	68(3)	C92	C90	C93	120(3)
C87	C91	C88	69(2)	C87	C91	C89	62(3)
C88	C91	C89	130(3)	C87	C92	C89	58(3)
C87	C92	C90	47.4(16)	C89	C92	C90	100(3)
C87	C93	C88	61(2)	C87	C93	C90	69(3)
C88	C93	C90	127(4)	Pd6	C94	N7	176.9(10)
N7	C95	C96	107.7(9)	N7	C95	C97	108.4(10)
N7	C95	C98	108.1(9)	C96	C95	C97	110.0(11)
C96	C95	C98	114.4(11)	C97	C95	C98	108.0(10)

Table S15-6. Torsion Angles(°)

(Those having bond angles > 160 or < 20 degrees are excluded.)

atom1	atom2	atom3	atom4	angle	atom1	atom2	atom3	atom4	angle
Pd2	Pd1	Si1	Pd2	-0.00(2)	Pd2	Pd1	Si1	Pd6	-12.30(10)
Pd2	Pd1	Si1	C1	117.08(11)	Pd2	Pd1	Si1	C7	-126.72(15)
Si1	Pd1	Pd2	Pd3	-176.47(9)	Si1	Pd1	Pd2	Pd6	9.16(8)
Si1	Pd1	Pd2	Si1	-0.00(8)	Si1	Pd1	Pd2	Si2	-170.03(9)
Pd2	Pd1	Si2	Pd2	0.00(2)	Pd2	Pd1	Si2	Pd3	8.95(13)
Pd2	Pd1	Si2	C13	-127.19(15)	Pd2	Pd1	Si2	C19	116.70(15)
Si2	Pd1	Pd2	Pd3	-6.44(9)	Si2	Pd1	Pd2	Pd6	179.18(10)
Si2	Pd1	Pd2	Si1	170.03(10)	Si2	Pd1	Pd2	Si2	-0.00(9)
C49	Pd1	Pd2	Pd3	166.0(4)	C49	Pd1	Pd2	Pd6	-8.3(4)
C49	Pd1	Pd2	Si1	-17.5(4)	C49	Pd1	Pd2	Si2	172.5(4)
C57	Pd1	Pd2	Pd3	-7.9(4)	C57	Pd1	Pd2	Pd6	177.7(4)

C57	Pd1	Pd2	Si1	168.6(4)	C57	Pd1	Pd2	Si2	-1.5(4)
Si1	Pd1	Si2	Pd2	7.82(9)	Si1	Pd1	Si2	Pd3	16.8(2)
Si1	Pd1	Si2	C13	-119.37(12)	Si1	Pd1	Si2	C19	124.52(13)
Si2	Pd1	Si1	Pd2	-7.83(9)	Si2	Pd1	Si1	Pd6	-20.13(18)
Si2	Pd1	Si1	C1	109.25(11)	Si2	Pd1	Si1	C7	-134.55(13)
C49	Pd1	Si1	Pd2	166.5(3)	C49	Pd1	Si1	Pd6	154.2(4)
C49	Pd1	Si1	C1	-76.4(3)	C49	Pd1	Si1	C7	39.8(3)
C57	Pd1	Si2	Pd2	178.8(3)	C57	Pd1	Si2	Pd3	-172.2(4)
C57	Pd1	Si2	C13	51.7(3)	C57	Pd1	Si2	C19	-64.5(3)
Pd1	Pd2	Pd3	Pd4	-124.65(4)	Pd1	Pd2	Pd3	Si2	6.35(3)
Pd1	Pd2	Pd3	Si4	-164.48(5)	Pd1	Pd2	Pd3	C65	80.68(5)
Pd1	Pd2	Pd3	C73	-109.39(6)	Pd1	Pd2	Pd6	Pd5	120.58(4)
Pd1	Pd2	Pd6	Si1	-9.02(3)	Pd1	Pd2	Pd6	Si4	164.82(5)
Pd1	Pd2	Pd6	C86	147.19(5)	Pd1	Pd2	Pd6	C94	-51.23(6)
Pd1	Pd2	Si1	Pd1	0.00(2)	Pd1	Pd2	Si1	Pd6	171.05(8)
Pd1	Pd2	Si1	C1	-88.28(14)	Pd1	Pd2	Si1	C7	98.79(17)
Pd1	Pd2	Si2	Pd1	0.00(2)	Pd1	Pd2	Si2	Pd3	-173.64(9)
Pd1	Pd2	Si2	C13	93.73(18)	Pd1	Pd2	Si2	C19	-94.89(14)
Pd3	Pd2	Pd6	Pd5	-53.88(4)	Pd3	Pd2	Pd6	Si1	176.52(5)
Pd3	Pd2	Pd6	Si4	-9.64(3)	Pd3	Pd2	Pd6	C86	-27.28(7)
Pd3	Pd2	Pd6	C94	134.30(4)	Pd6	Pd2	Pd3	Pd4	49.84(4)
Pd6	Pd2	Pd3	Si2	-179.15(5)	Pd6	Pd2	Pd3	Si4	10.01(3)
Pd6	Pd2	Pd3	C65	-104.83(5)	Pd6	Pd2	Pd3	C73	65.11(7)
Pd3	Pd2	Si2	Pd1	173.64(9)	Pd3	Pd2	Si2	Pd3	0.00(2)
Pd3	Pd2	Si2	C13	-92.63(17)	Pd3	Pd2	Si2	C19	78.75(14)
Si2	Pd2	Pd3	Pd4	-131.00(9)	Si2	Pd2	Pd3	Si2	0.00(9)
Si2	Pd2	Pd3	Si4	-170.84(9)	Si2	Pd2	Pd3	C65	74.32(9)
Si2	Pd2	Pd3	C73	-115.74(11)	Pd3	Pd2	Si4	Pd3	-0.00(2)
Pd3	Pd2	Si4	Pd4	-53.74(9)	Pd3	Pd2	Si4	Pd5	-132.34(14)
Pd3	Pd2	Si4	Pd6	170.01(9)	Pd3	Pd2	Si4	C43	84.17(16)
Si4	Pd2	Pd3	Pd4	39.84(9)	Si4	Pd2	Pd3	Si2	170.84(9)
Si4	Pd2	Pd3	Si4	-0.00(9)	Si4	Pd2	Pd3	C65	-114.84(10)
Si4	Pd2	Pd3	C73	55.10(10)	Pd6	Pd2	Si1	Pd1	-171.05(8)
Pd6	Pd2	Si1	Pd6	0.000(19)	Pd6	Pd2	Si1	C1	100.67(14)
Pd6	Pd2	Si1	C7	-72.26(16)	Si1	Pd2	Pd6	Pd5	129.60(8)
Si1	Pd2	Pd6	Si1	0.00(8)	Si1	Pd2	Pd6	Si4	173.84(8)
Si1	Pd2	Pd6	C86	156.21(9)	Si1	Pd2	Pd6	C94	-42.21(8)
Pd6	Pd2	Si4	Pd3	-170.01(9)	Pd6	Pd2	Si4	Pd4	136.26(14)
Pd6	Pd2	Si4	Pd5	57.65(9)	Pd6	Pd2	Si4	Pd6	0.000(19)

Pd6	Pd2	Si4	C43	-85.84(17)	Si4	Pd2	Pd6	Pd5	-44.24(8)
Si4	Pd2	Pd6	Si1	-173.84(9)	Si4	Pd2	Pd6	Si4	0.00(8)
Si4	Pd2	Pd6	C86	-17.64(10)	Si4	Pd2	Pd6	C94	143.94(9)
Si1	Pd2	Si2	Pd1	-9.85(12)	Si1	Pd2	Si2	Pd3	176.51(9)
Si1	Pd2	Si2	C13	83.87(19)	Si1	Pd2	Si2	C19	-104.74(16)
Si2	Pd2	Si1	Pd1	9.82(12)	Si2	Pd2	Si1	Pd6	-179.13(10)
Si2	Pd2	Si1	C1	-78.46(17)	Si2	Pd2	Si1	C7	108.61(18)
Si1	Pd2	Si4	Pd3	-176.44(9)	Si1	Pd2	Si4	Pd4	129.83(12)
Si1	Pd2	Si4	Pd5	51.22(16)	Si1	Pd2	Si4	Pd6	-6.43(12)
Si1	Pd2	Si4	C43	-92.27(19)	Si4	Pd2	Si1	Pd1	-164.62(10)
Si4	Pd2	Si1	Pd6	6.43(12)	Si4	Pd2	Si1	C1	107.10(16)
Si4	Pd2	Si1	C7	-65.8(2)	Si2	Pd2	Si4	Pd3	9.10(12)
Si2	Pd2	Si4	Pd4	-44.64(16)	Si2	Pd2	Si4	Pd5	-123.25(12)
Si2	Pd2	Si4	Pd6	179.10(9)	Si2	Pd2	Si4	C43	93.26(19)
Si4	Pd2	Si2	Pd1	164.83(9)	Si4	Pd2	Si2	Pd3	-8.81(12)
Si4	Pd2	Si2	C13	-101.44(19)	Si4	Pd2	Si2	C19	69.95(17)
Pd2	Pd3	Pd4	Pd5	-17.44(4)	Pd2	Pd3	Pd4	Si3	28.37(9)
Pd2	Pd3	Pd4	Si4	-38.17(2)	Pd2	Pd3	Pd4	C25	130.69(6)
Pd2	Pd3	Pd4	C73	166.39(4)	Pd2	Pd3	Si2	Pd1	-8.99(13)
Pd2	Pd3	Si2	Pd2	0.00(2)	Pd2	Pd3	Si2	C13	127.24(16)
Pd2	Pd3	Si2	C19	-121.36(13)	Pd2	Pd3	Si4	Pd2	-0.00(2)
Pd2	Pd3	Si4	Pd4	127.54(9)	Pd2	Pd3	Si4	Pd5	93.04(17)
Pd2	Pd3	Si4	Pd6	-13.96(12)	Pd2	Pd3	Si4	C43	-125.65(14)
Pd2	Pd3	C73	Pd4	-20.5(6)	Pd2	Pd3	C73	N4	142.2(9)
Pd4	Pd3	Si2	Pd1	52.4(2)	Pd4	Pd3	Si2	Pd2	61.43(9)
Pd4	Pd3	Si2	C13	-171.33(8)	Pd4	Pd3	Si2	C19	-59.93(12)
Si2	Pd3	Pd4	Pd5	-59.71(9)	Si2	Pd3	Pd4	Si3	-13.91(13)
Si2	Pd3	Pd4	Si4	-80.45(9)	Si2	Pd3	Pd4	C25	88.41(11)
Si2	Pd3	Pd4	C73	124.12(9)	Pd4	Pd3	Si4	Pd2	-127.54(9)
Pd4	Pd3	Si4	Pd4	0.00(2)	Pd4	Pd3	Si4	Pd5	-34.51(13)
Pd4	Pd3	Si4	Pd6	-141.5(2)	Pd4	Pd3	Si4	C43	106.80(12)
Si4	Pd3	Pd4	Pd5	20.73(8)	Si4	Pd3	Pd4	Si3	66.54(11)
Si4	Pd3	Pd4	Si4	-0.00(8)	Si4	Pd3	Pd4	C25	168.85(10)
Si4	Pd3	Pd4	C73	-155.44(9)	C65	Pd3	Pd4	Pd5	124.0(6)
C65	Pd3	Pd4	Si3	169.8(6)	C65	Pd3	Pd4	Si4	103.2(6)
C65	Pd3	Pd4	C25	-87.9(6)	C65	Pd3	Pd4	C73	-52.2(6)
Pd4	Pd3	C73	Pd4	0.00(2)	Pd4	Pd3	C73	N4	162.7(14)
C73	Pd3	Pd4	Pd5	176.2(4)	C73	Pd3	Pd4	Si3	-138.0(4)
C73	Pd3	Pd4	Si4	155.4(4)	C73	Pd3	Pd4	C25	-35.7(4)

C73	Pd3	Pd4	C73	0.0(4)	Si2	Pd3	Si4	Pd2	-7.13(10)
Si2	Pd3	Si4	Pd4	120.42(8)	Si2	Pd3	Si4	Pd5	85.91(18)
Si2	Pd3	Si4	Pd6	-21.1(2)	Si2	Pd3	Si4	C43	-132.78(11)
Si4	Pd3	Si2	Pd1	-1.7(2)	Si4	Pd3	Si2	Pd2	7.25(10)
Si4	Pd3	Si2	C13	134.49(13)	Si4	Pd3	Si2	C19	-114.11(11)
C65	Pd3	Si2	Pd1	-129.8(4)	C65	Pd3	Si2	Pd2	-120.8(4)
C65	Pd3	Si2	C13	6.4(4)	C65	Pd3	Si2	C19	117.8(4)
Si2	Pd3	C73	Pd4	-95.4(4)	Si2	Pd3	C73	N4	67.3(12)
C73	Pd3	Si2	Pd1	113.1(5)	C73	Pd3	Si2	Pd2	122.1(5)
C73	Pd3	Si2	C13	-110.7(5)	C73	Pd3	Si2	C19	0.7(5)
C65	Pd3	Si4	Pd2	99.0(4)	C65	Pd3	Si4	Pd4	-133.4(4)
C65	Pd3	Si4	Pd5	-167.9(5)	C65	Pd3	Si4	Pd6	85.1(5)
C65	Pd3	Si4	C43	-26.6(5)	Si4	Pd3	C73	Pd4	19.9(3)
Si4	Pd3	C73	N4	-177.4(11)	C73	Pd3	Si4	Pd2	-146.0(3)
C73	Pd3	Si4	Pd4	-18.5(3)	C73	Pd3	Si4	Pd5	-53.0(3)
C73	Pd3	Si4	Pd6	-160.0(3)	C73	Pd3	Si4	C43	88.3(3)
C65	Pd3	C73	Pd4	150.3(4)	C65	Pd3	C73	N4	-47.0(12)
Pd3	Pd4	Pd5	Pd6	-12.07(5)	Pd3	Pd4	Pd5	Si3	154.41(4)
Pd3	Pd4	Pd5	Si4	-22.05(3)	Pd3	Pd4	Pd5	C78	142.65(6)
Pd3	Pd4	Pd5	C86	-62.24(5)	Pd3	Pd4	Si3	Pd5	-57.61(18)
Pd3	Pd4	Si3	C25	133.15(13)	Pd3	Pd4	Si3	C31	-149.86(13)
Pd3	Pd4	Si3	C37	42.7(3)	Pd3	Pd4	Si4	Pd2	55.29(10)
Pd3	Pd4	Si4	Pd3	-0.000(19)	Pd3	Pd4	Si4	Pd5	155.07(9)
Pd3	Pd4	Si4	Pd6	139.8(2)	Pd3	Pd4	Si4	C43	-89.82(12)
Pd3	Pd4	C25	Si3	-140.2(3)	Pd3	Pd4	C25	C26	102.3(7)
Pd3	Pd4	C25	C30	-19.2(9)	Pd3	Pd4	C73	Pd3	0.00(2)
Pd3	Pd4	C73	N4	-163.1(13)	Pd5	Pd4	Si3	Pd5	0.00(2)
Pd5	Pd4	Si3	C25	-169.24(12)	Pd5	Pd4	Si3	C31	-92.2(2)
Pd5	Pd4	Si3	C37	100.33(16)	Si3	Pd4	Pd5	Pd6	-166.49(9)
Si3	Pd4	Pd5	Si3	0.00(9)	Si3	Pd4	Pd5	Si4	-176.47(9)
Si3	Pd4	Pd5	C78	-11.77(10)	Si3	Pd4	Pd5	C86	143.35(10)
Pd5	Pd4	Si4	Pd2	-99.78(13)	Pd5	Pd4	Si4	Pd3	-155.07(9)
Pd5	Pd4	Si4	Pd5	0.00(2)	Pd5	Pd4	Si4	Pd6	-15.22(13)
Pd5	Pd4	Si4	C43	115.11(15)	Si4	Pd4	Pd5	Pd6	9.98(9)
Si4	Pd4	Pd5	Si3	176.47(9)	Si4	Pd4	Pd5	Si4	-0.00(8)
Si4	Pd4	Pd5	C78	164.70(11)	Si4	Pd4	Pd5	C86	-40.19(9)
Pd5	Pd4	C25	Si3	8.9(3)	Pd5	Pd4	C25	C26	-108.6(6)
Pd5	Pd4	C25	C30	129.8(5)	C25	Pd4	Pd5	Pd6	-174.6(3)
C25	Pd4	Pd5	Si3	-8.2(3)	C25	Pd4	Pd5	Si4	175.4(3)

C25	Pd4	Pd5	C78	-19.9(3)	C25	Pd4	Pd5	C86	135.2(3)
Pd5	Pd4	C73	Pd3	-9.0(9)	Pd5	Pd4	C73	N4	-172.1(4)
C73	Pd4	Pd5	Pd6	-5.0(8)	C73	Pd4	Pd5	Si3	161.5(7)
C73	Pd4	Pd5	Si4	-15.0(7)	C73	Pd4	Pd5	C78	149.7(7)
C73	Pd4	Pd5	C86	-55.2(8)	Si3	Pd4	Si4	Pd2	-96.78(13)
Si3	Pd4	Si4	Pd3	-152.07(8)	Si3	Pd4	Si4	Pd5	2.99(10)
Si3	Pd4	Si4	Pd6	-12.2(2)	Si3	Pd4	Si4	C43	118.10(13)
Si4	Pd4	Si3	Pd5	-2.96(10)	Si4	Pd4	Si3	C25	-172.20(9)
Si4	Pd4	Si3	C31	-95.2(2)	Si4	Pd4	Si3	C37	97.37(16)
Si3	Pd4	C25	Si3	0.00(9)	Si3	Pd4	C25	C26	-117.5(8)
Si3	Pd4	C25	C30	120.9(6)	C25	Pd4	Si3	Pd5	169.2(4)
C25	Pd4	Si3	C25	-0.0(4)	C25	Pd4	Si3	C31	77.0(4)
C25	Pd4	Si3	C37	-90.4(4)	Si3	Pd4	C73	Pd3	141.9(4)
Si3	Pd4	C73	N4	-21.2(16)	C73	Pd4	Si3	Pd5	-165.8(6)
C73	Pd4	Si3	C25	25.0(6)	C73	Pd4	Si3	C31	101.9(6)
C73	Pd4	Si3	C37	-65.5(6)	Si4	Pd4	C25	Si3	17.5(8)
Si4	Pd4	C25	C26	-100.0(7)	Si4	Pd4	C25	C30	138.4(5)
C25	Pd4	Si4	Pd2	-110.3(6)	C25	Pd4	Si4	Pd3	-165.6(6)
C25	Pd4	Si4	Pd5	-10.5(7)	C25	Pd4	Si4	Pd6	-25.7(7)
C25	Pd4	Si4	C43	104.6(6)	Si4	Pd4	C73	Pd3	-21.3(3)
Si4	Pd4	C73	N4	175.6(10)	C73	Pd4	Si4	Pd2	74.0(3)
C73	Pd4	Si4	Pd3	18.7(3)	C73	Pd4	Si4	Pd5	173.8(3)
C73	Pd4	Si4	Pd6	158.6(4)	C73	Pd4	Si4	C43	-71.1(3)
C25	Pd4	C73	Pd3	160.6(4)	C25	Pd4	C73	N4	-2.5(12)
C73	Pd4	C25	Si3	-166.8(4)	C73	Pd4	C25	C26	75.7(7)
C73	Pd4	C25	C30	-45.9(6)	Pd4	Pd5	Pd6	Pd2	33.77(4)
Pd4	Pd5	Pd6	Si1	74.18(4)	Pd4	Pd5	Pd6	Si4	-9.17(3)
Pd4	Pd5	Pd6	C86	-123.50(4)	Pd4	Pd5	Pd6	C94	-160.30(7)
Pd4	Pd5	Si3	Pd4	-0.000(19)	Pd4	Pd5	Si3	C25	13.29(15)
Pd4	Pd5	Si3	C31	131.69(14)	Pd4	Pd5	Si3	C37	-112.18(16)
Pd4	Pd5	Si4	Pd2	111.33(13)	Pd4	Pd5	Si4	Pd3	33.19(12)
Pd4	Pd5	Si4	Pd4	-0.00(2)	Pd4	Pd5	Si4	Pd6	169.44(9)
Pd4	Pd5	Si4	C43	-101.93(16)	Pd4	Pd5	C86	Pd6	84.1(4)
Pd4	Pd5	C86	N6	-93.9(9)	Pd6	Pd5	Si4	Pd2	-58.11(9)
Pd6	Pd5	Si4	Pd3	-136.25(19)	Pd6	Pd5	Si4	Pd4	-169.44(9)
Pd6	Pd5	Si4	Pd6	-0.000(19)	Pd6	Pd5	Si4	C43	88.62(15)
Si4	Pd5	Pd6	Pd2	42.94(8)	Si4	Pd5	Pd6	Si1	83.35(8)
Si4	Pd5	Pd6	Si4	-0.00(8)	Si4	Pd5	Pd6	C86	-114.33(8)
Si4	Pd5	Pd6	C94	-151.13(11)	C78	Pd5	Pd6	Pd2	-130.4(3)

C78	Pd5	Pd6	Si1	-90.0(3)	C78	Pd5	Pd6	Si4	-173.4(3)
C78	Pd5	Pd6	C86	72.3(3)	C78	Pd5	Pd6	C94	35.5(3)
Pd6	Pd5	C86	Pd6	0.00(2)	Pd6	Pd5	C86	N6	-178.0(11)
C86	Pd5	Pd6	Pd2	157.3(4)	C86	Pd5	Pd6	Si1	-162.3(4)
C86	Pd5	Pd6	Si4	114.3(4)	C86	Pd5	Pd6	C86	0.0(4)
C86	Pd5	Pd6	C94	-36.8(4)	Si3	Pd5	Si4	Pd2	108.28(12)
Si3	Pd5	Si4	Pd3	30.15(19)	Si3	Pd5	Si4	Pd4	-3.05(10)
Si3	Pd5	Si4	Pd6	166.39(8)	Si3	Pd5	Si4	C43	-104.98(16)
Si4	Pd5	Si3	Pd4	2.98(10)	Si4	Pd5	Si3	C25	16.3(2)
Si4	Pd5	Si3	C31	134.67(12)	Si4	Pd5	Si3	C37	-109.20(14)
C78	Pd5	Si3	Pd4	172.7(3)	C78	Pd5	Si3	C25	-174.0(4)
C78	Pd5	Si3	C31	-55.6(3)	C78	Pd5	Si3	C37	60.5(4)
Si3	Pd5	C86	Pd6	171.3(3)	Si3	Pd5	C86	N6	-6.7(13)
C86	Pd5	Si3	Pd4	-109.9(6)	C86	Pd5	Si3	C25	-96.6(6)
C86	Pd5	Si3	C31	21.8(6)	C86	Pd5	Si3	C37	137.9(6)
Si4	Pd5	C86	Pd6	52.8(3)	Si4	Pd5	C86	N6	-125.2(8)
C86	Pd5	Si4	Pd2	-98.7(3)	C86	Pd5	Si4	Pd3	-176.8(3)
C86	Pd5	Si4	Pd4	150.0(3)	C86	Pd5	Si4	Pd6	-40.6(3)
C86	Pd5	Si4	C43	48.1(3)	C78	Pd5	C86	Pd6	-111.2(4)
C78	Pd5	C86	N6	70.8(9)	Pd2	Pd6	Si1	Pd1	12.38(11)
Pd2	Pd6	Si1	Pd2	0.00(2)	Pd2	Pd6	Si1	C1	-113.61(13)
Pd2	Pd6	Si1	C7	133.28(13)	Pd2	Pd6	Si4	Pd2	0.00(2)
Pd2	Pd6	Si4	Pd3	14.20(12)	Pd2	Pd6	Si4	Pd4	-102.4(2)
Pd2	Pd6	Si4	Pd5	-118.20(9)	Pd2	Pd6	Si4	C43	124.90(14)
Pd2	Pd6	C86	Pd5	-32.5(5)	Pd2	Pd6	C86	N6	143(2)
Pd5	Pd6	Si1	Pd1	-44.93(17)	Pd5	Pd6	Si1	Pd2	-57.31(7)
Pd5	Pd6	Si1	C1	-170.93(9)	Pd5	Pd6	Si1	C7	75.97(10)
Pd5	Pd6	Si4	Pd2	118.20(9)	Pd5	Pd6	Si4	Pd3	132.4(2)
Pd5	Pd6	Si4	Pd4	15.81(14)	Pd5	Pd6	Si4	Pd5	0.00(2)
Pd5	Pd6	Si4	C43	-116.90(13)	Pd5	Pd6	C86	Pd5	-0.000(19)
Pd5	Pd6	C86	N6	176(2)	Si1	Pd6	Si4	Pd2	4.78(9)
Si1	Pd6	Si4	Pd3	18.98(19)	Si1	Pd6	Si4	Pd4	-97.61(19)
Si1	Pd6	Si4	Pd5	-113.42(8)	Si1	Pd6	Si4	C43	129.68(11)
Si4	Pd6	Si1	Pd1	7.58(17)	Si4	Pd6	Si1	Pd2	-4.80(9)
Si4	Pd6	Si1	C1	-118.41(12)	Si4	Pd6	Si1	C7	128.48(11)
C94	Pd6	Si1	Pd1	158.4(3)	C94	Pd6	Si1	Pd2	146.0(3)
C94	Pd6	Si1	C1	32.4(3)	C94	Pd6	Si1	C7	-80.7(3)
Si4	Pd6	C86	Pd5	-46.0(2)	Si4	Pd6	C86	N6	130(2)
C86	Pd6	Si4	Pd2	167.4(3)	C86	Pd6	Si4	Pd3	-178.4(4)

C86	Pd6	Si4	Pd4	65.1(4)	C86	Pd6	Si4	Pd5	49.2(3)
C86	Pd6	Si4	C43	-67.7(3)	C94	Pd6	Si4	Pd2	-90.5(7)
C94	Pd6	Si4	Pd3	-76.3(7)	C94	Pd6	Si4	Pd4	167.1(7)
C94	Pd6	Si4	Pd5	151.3(7)	C94	Pd6	Si4	C43	34.4(7)
C94	Pd6	C86	Pd5	162.9(3)	C94	Pd6	C86	N6	-22(2)
Pd1	Si1	C1	C2	-86.6(7)	Pd1	Si1	C1	C6	85.5(8)
Pd1	Si1	C7	C8	-137.0(7)	Pd1	Si1	C7	C12	49.6(7)
Pd2	Si1	C1	C2	-15.6(8)	Pd2	Si1	C1	C6	156.6(7)
Pd2	Si1	C7	C8	143.7(6)	Pd2	Si1	C7	C12	-29.7(9)
Pd6	Si1	C1	C2	59.6(7)	Pd6	Si1	C1	C6	-128.2(8)
Pd6	Si1	C7	C8	81.2(7)	Pd6	Si1	C7	C12	-92.2(6)
C1	Si1	C7	C8	-29.6(9)	C1	Si1	C7	C12	156.9(6)
C7	Si1	C1	C2	158.6(6)	C7	Si1	C1	C6	-29.2(10)
Pd1	Si2	C13	C14	31.3(7)	Pd1	Si2	C13	C18	-148.1(7)
Pd1	Si2	C19	C20	101.7(7)	Pd1	Si2	C19	C24	-72.5(6)
Pd2	Si2	C13	C14	-45.0(9)	Pd2	Si2	C13	C18	135.6(6)
Pd2	Si2	C19	C20	176.1(5)	Pd2	Si2	C19	C24	1.8(8)
Pd3	Si2	C13	C14	-120.2(6)	Pd3	Si2	C13	C18	60.4(8)
Pd3	Si2	C19	C20	-117.6(7)	Pd3	Si2	C19	C24	68.2(6)
C13	Si2	C19	C20	-11.0(9)	C13	Si2	C19	C24	174.8(6)
C19	Si2	C13	C14	142.9(6)	C19	Si2	C13	C18	-36.5(9)
Pd4	Si3	C25	Pd4	-0.00(2)	Pd4	Si3	C25	C26	92.6(8)
Pd4	Si3	C25	C30	-88.3(9)	Pd4	Si3	C31	C32	24.7(11)
Pd4	Si3	C31	C36	-151.5(5)	Pd4	Si3	C37	C38	105.9(8)
Pd4	Si3	C37	C42	-72.1(8)	Pd5	Si3	C25	Pd4	-14.0(5)
Pd5	Si3	C25	C26	78.6(10)	Pd5	Si3	C25	C30	-102.3(8)
Pd5	Si3	C31	C32	-52.6(8)	Pd5	Si3	C31	C36	131.1(7)
Pd5	Si3	C37	C38	-177.4(7)	Pd5	Si3	C37	C42	4.5(9)
C25	Si3	C31	C32	86.9(9)	C25	Si3	C31	C36	-89.4(9)
C31	Si3	C25	Pd4	-134.5(4)	C31	Si3	C25	C26	-41.8(9)
C31	Si3	C25	C30	137.2(9)	C25	Si3	C37	C38	39.8(9)
C25	Si3	C37	C42	-138.3(8)	C37	Si3	C25	Pd4	113.4(4)
C37	Si3	C25	C26	-154.0(8)	C37	Si3	C25	C30	25.1(10)
C31	Si3	C37	C38	-64.5(9)	C31	Si3	C37	C42	117.5(8)
C37	Si3	C31	C32	-167.2(7)	C37	Si3	C31	C36	16.5(10)
Pd2	Si4	C43	C44	-179.5(6)	Pd2	Si4	C43	C48	-1.8(10)
Pd3	Si4	C43	C44	-108.4(8)	Pd3	Si4	C43	C48	69.4(7)
Pd4	Si4	C43	C44	-39.5(9)	Pd4	Si4	C43	C48	138.3(7)
Pd5	Si4	C43	C44	41.2(10)	Pd5	Si4	C43	C48	-141.1(6)

Pd6	Si4	C43	C44	110.6(8)	Pd6	Si4	C43	C48	-71.6(8)
C73	N4	C74	C75	72(2)	C73	N4	C74	C76	-158.0(15)
C73	N4	C74	C77	-41(2)	C74	N4	C73	Pd3	15(3)
C74	N4	C73	Pd4	169.7(13)	Si1	C1	C2	C3	171.0(7)
Si1	C1	C6	C5	-171.1(7)	C2	C1	C6	C5	1.3(16)
C6	C1	C2	C3	-2.3(16)	C1	C2	C3	C4	2.7(19)
C2	C3	C4	C5	-2(2)	C3	C4	C5	C6	1(2)
C4	C5	C6	C1	-1(2)	Si1	C7	C8	C9	-172.1(7)
Si1	C7	C12	C11	172.0(6)	C8	C7	C12	C11	-2.0(14)
C12	C7	C8	C9	1.4(15)	C7	C8	C9	C10	-1.0(18)
C8	C9	C10	C11	1.1(18)	C9	C10	C11	C12	-1.8(19)
C10	C11	C12	C7	2.3(18)	Si2	C13	C14	C15	-179.6(6)
Si2	C13	C18	C17	-179.3(7)	C14	C13	C18	C17	1.3(16)
C18	C13	C14	C15	-0.2(15)	C13	C14	C15	C16	2.1(17)
C14	C15	C16	C17	-6(2)	C15	C16	C17	C18	7(2)
C16	C17	C18	C13	-4(2)	Si2	C19	C20	C21	-173.2(6)
Si2	C19	C24	C23	173.5(7)	C20	C19	C24	C23	-1.3(15)
C24	C19	C20	C21	1.0(15)	C19	C20	C21	C22	-2.4(17)
C20	C21	C22	C23	4.1(19)	C21	C22	C23	C24	-4.3(19)
C22	C23	C24	C19	3.0(18)	Pd4	C25	C26	C27	-111.8(10)
Pd4	C25	C30	C29	113.8(9)	Si3	C25	C26	C27	176.1(8)
Si3	C25	C30	C29	-175.6(7)	C26	C25	C30	C29	3.5(17)
C30	C25	C26	C27	-3.0(18)	C25	C26	C27	C28	2(2)
C26	C27	C28	C29	-1(3)	C27	C28	C29	C30	2(3)
C28	C29	C30	C25	-3(2)	Si3	C31	C32	C33	-174.8(10)
Si3	C31	C36	C35	175.8(7)	C32	C31	C36	C35	-0.8(17)
C36	C31	C32	C33	2(2)	C31	C32	C33	C34	-0(3)
C32	C33	C34	C35	-3(2)	C33	C34	C35	C36	4(2)
C34	C35	C36	C31	-2(2)	Si3	C37	C38	C39	-176.0(7)
Si3	C37	C42	C41	179.3(7)	C38	C37	C42	C41	1.1(16)
C42	C37	C38	C39	2.2(16)	C37	C38	C39	C40	-2.3(17)
C38	C39	C40	C41	-1.2(17)	C39	C40	C41	C42	4.3(17)
C40	C41	C42	C37	-4.4(17)	Si4	C43	C44	C45	175.8(8)
Si4	C43	C48	C47	-175.7(7)	C44	C43	C48	C47	2.3(17)
C48	C43	C44	C45	-2.0(18)	C43	C44	C45	C46	2(2)
C44	C45	C46	C47	-3(2)	C45	C46	C47	C48	4(2)
C46	C47	C48	C43	-3(2)	N1	C50	C51	C54	-94.8(19)
N1	C50	C51	C55	104.5(10)	N1	C50	C52	C55	-92.1(15)
N1	C50	C52	C56	109.4(10)	N1	C50	C53	C56	-113(2)

N1	C50	C54	C51	95.0(16)	N1	C50	C55	C51	-106.8(9)
N1	C50	C55	C52	98.5(18)	N1	C50	C56	C52	-106.0(11)
N1	C50	C56	C53	75(3)	C51	C50	C52	C55	27(2)
C51	C50	C52	C56	-131.1(15)	C52	C50	C51	C54	145.9(18)
C52	C50	C51	C55	-14.9(11)	C51	C50	C53	C56	129(2)
C53	C50	C51	C54	21(2)	C53	C50	C51	C55	-139.8(14)
C51	C50	C54	C51	-0.0(19)	C54	C50	C51	C54	-0.0(15)
C54	C50	C51	C55	-161(2)	C51	C50	C55	C51	0.0(10)
C51	C50	C55	C52	-155(2)	C55	C50	C51	C54	161(2)
C55	C50	C51	C55	-0.0(11)	C51	C50	C56	C52	113(2)
C51	C50	C56	C53	-66(3)	C56	C50	C51	C54	47(3)
C56	C50	C51	C55	-114(2)	C52	C50	C53	C56	1(2)
C53	C50	C52	C55	158.2(15)	C53	C50	C52	C56	-0.3(10)
C52	C50	C54	C51	-47(3)	C54	C50	C52	C55	50(2)
C54	C50	C52	C56	-108.1(19)	C52	C50	C55	C51	155(2)
C52	C50	C55	C52	-0.0(15)	C55	C50	C52	C55	-0(2)
C55	C50	C52	C56	-158(2)	C52	C50	C56	C52	0.0(8)
C52	C50	C56	C53	-179(3)	C56	C50	C52	C55	158.4(18)
C56	C50	C52	C56	0.0(11)	C53	C50	C54	C51	-161.5(17)
C54	C50	C53	C56	139(2)	C53	C50	C55	C51	123(2)
C53	C50	C55	C52	-32(3)	C55	C50	C53	C56	18(3)
C53	C50	C56	C52	179(3)	C53	C50	C56	C53	0(2)
C56	C50	C53	C56	0(3)	C54	C50	C55	C51	9.8(10)
C54	C50	C55	C52	-144.9(17)	C55	C50	C54	C51	-20(2)
C54	C50	C56	C52	135.2(12)	C54	C50	C56	C53	-44(3)
C56	C50	C54	C51	-144.4(17)	C55	C50	C56	C52	12.8(14)
C55	C50	C56	C53	-167(2)	C56	C50	C55	C51	131.5(16)
C56	C50	C55	C52	-23(2)	C50	C51	C54	C50	-0.0(4)
C50	C51	C55	C50	0.0(5)	C50	C51	C55	C52	27(2)
C54	C51	C55	C50	-24(3)	C54	C51	C55	C52	2(5)
C55	C51	C54	C50	19(2)	C50	C52	C55	C50	0.0(4)
C50	C52	C55	C51	-20.4(18)	C50	C52	C56	C50	0.0(6)
C50	C52	C56	C53	1(4)	C55	C52	C56	C50	-24(3)
C55	C52	C56	C53	-23(6)	C56	C52	C55	C50	18(2)
C56	C52	C55	C51	-2(4)	C50	C53	C56	C50	0.0(4)
C50	C53	C56	C52	-1(4)	N2	C58	C59	C62	-91(2)
N2	C58	C60	C63	-107.9(18)	N2	C58	C61	C63	102.4(11)
N2	C58	C61	C64	-89.0(18)	N2	C58	C62	C59	99(2)
N2	C58	C63	C60	79(3)	N2	C58	C63	C61	-103.8(12)

N2	C58	C64	C61	103.1(15)	C59	C58	C60	C63	134(2)
C60	C58	C59	C62	21(3)	C59	C58	C61	C63	-123.9(18)
C59	C58	C61	C64	45(3)	C61	C58	C59	C62	135(2)
C59	C58	C62	C59	-0(2)	C62	C58	C59	C62	-0(3)
C59	C58	C63	C60	-59(4)	C59	C58	C63	C61	119(2)
C63	C58	C59	C62	46(3)	C59	C58	C64	C61	-144.9(18)
C64	C58	C59	C62	162(2)	C60	C58	C61	C63	-1.2(10)
C60	C58	C61	C64	167.4(17)	C61	C58	C60	C63	3(2)
C60	C58	C62	C59	-160(3)	C62	C58	C60	C63	145(2)
C60	C58	C63	C60	-0.0(19)	C60	C58	C63	C61	177(4)
C63	C58	C60	C63	-0(3)	C60	C58	C64	C61	-17(3)
C64	C58	C60	C63	13(3)	C61	C58	C62	C59	-69(4)
C62	C58	C61	C63	-90(3)	C62	C58	C61	C64	79(3)
C61	C58	C63	C60	-177(4)	C61	C58	C63	C61	0.0(14)
C63	C58	C61	C63	-0.0(15)	C63	C58	C61	C64	169(3)
C61	C58	C64	C61	0(2)	C64	C58	C61	C63	-169(3)
C64	C58	C61	C64	0.0(18)	C62	C58	C63	C60	-37(4)
C62	C58	C63	C61	140.1(17)	C63	C58	C62	C59	-145(3)
C62	C58	C64	C61	-135(2)	C64	C58	C62	C59	-21(3)
C63	C58	C64	C61	-11(2)	C64	C58	C63	C60	-170(3)
C64	C58	C63	C61	7.5(16)	C58	C59	C62	C58	0.0(5)
C58	C60	C63	C58	-0.0(5)	C58	C60	C63	C61	-5(7)
C58	C61	C63	C58	-0.0(6)	C58	C61	C63	C60	6(7)
C58	C61	C64	C58	0.0(5)	C63	C61	C64	C58	13(3)
C64	C61	C63	C58	-15(4)	C64	C61	C63	C60	-9(11)
N3	C66	C67	C70	-117.9(18)	N3	C66	C68	C70	100.1(19)
N3	C66	C68	C71	-79(2)	N3	C66	C69	C72	-93(3)
N3	C66	C70	C67	68(3)	N3	C66	C70	C68	-102.3(17)
N3	C66	C71	C68	110.6(16)	N3	C66	C72	C69	95(3)
C67	C66	C68	C70	5.6(12)	C67	C66	C68	C71	-173.9(18)
C68	C66	C67	C70	-9(2)	C67	C66	C69	C72	9(4)
C69	C66	C67	C70	131(2)	C67	C66	C70	C67	-0.0(14)
C67	C66	C70	C68	-170(3)	C70	C66	C67	C70	0(2)
C67	C66	C71	C68	9(3)	C71	C66	C67	C70	-15(3)
C67	C66	C72	C69	-172(3)	C72	C66	C67	C70	135(2)
C68	C66	C69	C72	132(4)	C69	C66	C68	C70	-125(3)
C69	C66	C68	C71	55(4)	C68	C66	C70	C67	170(3)
C68	C66	C70	C68	-0.0(17)	C70	C66	C68	C70	0.0(16)
C70	C66	C68	C71	-180(3)	C68	C66	C71	C68	0(2)

C71	C66	C68	C70	180(3)	C71	C66	C68	C71	0.0(15)
C68	C66	C72	C69	-71(5)	C72	C66	C68	C70	-94(4)
C72	C66	C68	C71	87(5)	C69	C66	C70	C67	-71(4)
C69	C66	C70	C68	119(3)	C70	C66	C69	C72	45(5)
C69	C66	C71	C68	-140(2)	C71	C66	C69	C72	168(3)
C69	C66	C72	C69	0(3)	C72	C66	C69	C72	-0(3)
C70	C66	C71	C68	0(2)	C71	C66	C70	C67	170(2)
C71	C66	C70	C68	-0.4(17)	C70	C66	C72	C69	-146(3)
C72	C66	C70	C67	-51(3)	C72	C66	C70	C68	139(2)
C71	C66	C72	C69	-14(4)	C72	C66	C71	C68	-134(2)
C66	C67	C70	C66	0.0(9)	C66	C68	C70	C66	-0.0(9)
C66	C68	C71	C66	0.0(8)	C70	C68	C71	C66	-0(3)
C71	C68	C70	C66	1(4)	C66	C69	C72	C66	-0.0(9)
N5	C79	C80	C83	-63(4)	N5	C79	C81	C84	-106(3)
N5	C79	C82	C85	-115(2)	N5	C79	C83	C80	122(3)
N5	C79	C84	C81	80(3)	N5	C79	C85	C82	72(2)
C80	C79	C81	C84	11(4)	C81	C79	C80	C83	-177(3)
C80	C79	C82	C85	129(3)	C82	C79	C80	C83	48(4)
C80	C79	C83	C80	-0(3)	C83	C79	C80	C83	-0(3)
C80	C79	C84	C81	-169(3)	C84	C79	C80	C83	-172(3)
C80	C79	C85	C82	-63(3)	C85	C79	C80	C83	72(4)
C81	C79	C82	C85	-4(3)	C82	C79	C81	C84	144(3)
C81	C79	C83	C80	4(5)	C83	C79	C81	C84	10(5)
C81	C79	C84	C81	-0(3)	C84	C79	C81	C84	-0(3)
C81	C79	C85	C82	177(2)	C85	C79	C81	C84	143(3)
C82	C79	C83	C80	-136(3)	C83	C79	C82	C85	145(3)
C82	C79	C84	C81	-47(4)	C84	C79	C82	C85	16(4)
C82	C79	C85	C82	0(2)	C85	C79	C82	C85	0(2)
C83	C79	C84	C81	-173(3)	C84	C79	C83	C80	8(4)
C83	C79	C85	C82	-39(3)	C85	C79	C83	C80	-120(3)
C84	C79	C85	C82	-168(2)	C85	C79	C84	C81	-40(3)
C79	C80	C83	C79	-0.0(6)	C79	C81	C84	C79	0.0(5)
C79	C82	C85	C79	0.0(6)	N6	C87	C88	C91	102.6(14)
N6	C87	C88	C93	-102.3(12)	N6	C87	C89	C91	-99.3(19)
N6	C87	C89	C92	89.0(18)	N6	C87	C90	C92	-97.3(14)
N6	C87	C90	C93	96.2(18)	N6	C87	C91	C88	-94.1(16)
N6	C87	C91	C89	98.6(17)	N6	C87	C92	C89	-105.4(14)
N6	C87	C92	C90	105.7(11)	N6	C87	C93	C88	99.3(14)
N6	C87	C93	C90	-98(2)	C88	C87	C89	C91	10(2)

C88	C87	C89	C92	-161.5(19)	C89	C87	C88	C91	-10(2)
C89	C87	C88	C93	145(2)	C88	C87	C90	C92	149.6(18)
C88	C87	C90	C93	-17(2)	C90	C87	C88	C91	-142.5(19)
C90	C87	C88	C93	12.5(17)	C88	C87	C91	C88	0.0(16)
C88	C87	C91	C89	-167(3)	C91	C87	C88	C91	0.0(16)
C91	C87	C88	C93	155(2)	C88	C87	C92	C89	38(4)
C88	C87	C92	C90	-111(4)	C92	C87	C88	C91	-40(4)
C92	C87	C88	C93	115(4)	C88	C87	C93	C88	0.0(14)
C88	C87	C93	C90	163(3)	C93	C87	C88	C91	-155(2)
C93	C87	C88	C93	0.0(18)	C89	C87	C90	C92	30(3)
C89	C87	C90	C93	-137(3)	C90	C87	C89	C91	134(2)
C90	C87	C89	C92	-38(3)	C89	C87	C91	C88	167(3)
C89	C87	C91	C89	-0(2)	C91	C87	C89	C91	-0.0(16)
C91	C87	C89	C92	-172(3)	C89	C87	C92	C89	0(2)
C89	C87	C92	C90	-149(3)	C92	C87	C89	C91	172(3)
C92	C87	C89	C92	0.0(17)	C89	C87	C93	C88	-78(5)
C89	C87	C93	C90	85(5)	C93	C87	C89	C91	78(5)
C93	C87	C89	C92	-94(5)	C90	C87	C91	C88	72(4)
C90	C87	C91	C89	-95(4)	C91	C87	C90	C92	96(4)
C91	C87	C90	C93	-70(4)	C90	C87	C92	C89	149(2)
C90	C87	C92	C90	0.0(13)	C92	C87	C90	C92	0.0(14)
C92	C87	C90	C93	-167(2)	C90	C87	C93	C88	-163(3)
C90	C87	C93	C90	0.0(18)	C93	C87	C90	C92	167(3)
C93	C87	C90	C93	0(2)	C91	C87	C92	C89	6.5(19)
C91	C87	C92	C90	-142.4(18)	C92	C87	C91	C88	160.5(18)
C92	C87	C91	C89	-7(2)	C91	C87	C93	C88	-22(2)
C91	C87	C93	C90	141(2)	C93	C87	C91	C88	26(3)
C93	C87	C91	C89	-142(2)	C92	C87	C93	C88	-147(2)
C92	C87	C93	C90	16(3)	C93	C87	C92	C89	138(2)
C93	C87	C92	C90	-11(2)	C87	C88	C91	C87	0.0(7)
C87	C88	C91	C89	15(3)	C87	C88	C93	C87	0.0(7)
C87	C88	C93	C90	-20(3)	C91	C88	C93	C87	22(2)
C91	C88	C93	C90	2(5)	C93	C88	C91	C87	-20(2)
C93	C88	C91	C89	-5(5)	C87	C89	C91	C87	-0.0(7)
C87	C89	C91	C88	-16(4)	C87	C89	C92	C87	0.0(7)
C87	C89	C92	C90	22.7(18)	C91	C89	C92	C87	-11(5)
C91	C89	C92	C90	11(6)	C92	C89	C91	C87	11(5)
C92	C89	C91	C88	-4(8)	C87	C90	C92	C87	0.0(8)
C87	C90	C92	C89	-26.2(17)	C87	C90	C93	C87	0.0(7)

C87	C90	C93	C88	19(3)		C92	C90	C93	C87	-13(3)
C92	C90	C93	C88	6(6)		C93	C90	C92	C87	14(3)
C93	C90	C92	C89	-12(4)						

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