

## Electronic Supplementary Information

### Contents

1. Cartesian coordinates, UHCTH/407 energies, and  $\langle S^2 \rangle$  values of **1–3** and **9–13**.
2. DFT calculations of the  $\mathbf{D}^{SO}$  tensors of **1–3**.
3. UBP86/cc-pVDZ frontier orbitals of **3**.
4. Spin configuration-based and orbital region partitioning-based analyses of the  $\mathbf{D}^{SO}$  tensors of **1,2**, and **9–12**, as calculated at PK-DFT.

1. Cartesian coordinates, UHCTH/407 energies, and  $\langle S^2 \rangle$  values of **1–3** and **9–13**.

Cartesian coordinates of **1** optimized at the UHCTH/407/6-31G\* level.

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	7	0	0.000000	0.000000	-1.708049
2	6	0	0.000000	1.170228	-1.016218
3	6	0	0.000000	1.204506	0.412401
4	6	0	0.000000	0.000000	1.183266
5	6	0	0.000000	-1.204506	0.412401
6	6	0	0.000000	-1.170228	-1.016218
7	7	0	0.000000	2.307512	-1.728736
8	9	0	0.000000	2.369597	1.041293
9	7	0	0.000000	0.000000	2.508798
10	9	0	0.000000	-2.369597	1.041293
11	7	0	0.000000	-2.307512	-1.728736

E(UHCTH/407/6-31G\*) = -608.749683960 Hartree

$\langle S^2 \rangle$  = 12.0854

Cartesian coordinates of **2** optimized at the UHCTH/407/6-31G\* level.

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	7	0	0.000000	0.000000	-1.946777
2	6	0	0.000000	1.169930	-1.259616
3	6	0	0.000000	1.220916	0.174854
4	6	0	0.000000	0.000000	0.931949
5	6	0	0.000000	-1.220916	0.174854
6	6	0	0.000000	-1.169930	-1.259616
7	7	0	0.000000	2.284817	-2.003643
8	17	0	0.000000	2.722360	0.979948
9	7	0	0.000000	0.000000	2.255095
10	17	0	0.000000	-2.722360	0.979948
11	7	0	0.000000	-2.284817	-2.003643

E(UHCTH/407/6-31G\*) = -1329.63453431 Hartree

$\langle S^2 \rangle = 12.0897$

Cartesian coordinates of 3 optimized at the UHCTH/407/6-31G\* level.

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
	X	Y	Z		
1	7	0	0.000000	0.000000	2.259905
2	6	0	0.000000	1.169681	1.571121
3	6	0	0.000000	1.218211	0.139351
4	6	0	0.000000	0.000000	-0.616619
5	6	0	0.000000	-1.218211	0.139351
6	6	0	0.000000	-1.169681	1.571121
7	7	0	0.000000	2.285249	2.314979
8	35	0	0.000000	2.857269	-0.735239
9	7	0	0.000000	0.000000	-1.941184
10	35	0	0.000000	-2.857269	-0.735239
11	7	0	0.000000	-2.285249	2.314979

E(UHCTH/407/6-31G\*) = -5555.31677723 Hartree

$\langle S^2 \rangle = 12.0893$

Cartesian coordinates of 9 optimized at the UHCTH/407/Sapporo-DZP-2012 level.

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
	X	Y	Z		
1	6	0	0.000000	0.000000	-1.512480
2	6	0	0.000000	1.227556	-0.775103
3	6	0	0.000000	1.221988	0.605756
4	6	0	0.000000	0.000000	1.282667
5	6	0	0.000000	-1.221988	0.605756
6	6	0	0.000000	-1.227556	-0.775103
7	7	0	0.000000	0.000000	-2.840965
8	1	0	0.000000	2.165149	-1.330271
9	1	0	0.000000	2.148298	1.180062
10	9	0	0.000000	0.000000	2.622025

11	1	0	0.000000	-2.148298	1.180062
12	1	0	0.000000	-2.165149	-1.330271

-----

E(UHCTH/407/Sapporo-DZP-2012) = -385.489491225 Hartree

$\langle S^2 \rangle$  = 2.0306

Cartesian coordinates of **10** optimized at the UHCTH/407/Sapporo-DZP-2012 level.

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	0.000000	-1.949167
2	6	0	0.000000	1.226362	-1.209103
3	6	0	0.000000	1.220171	0.170557
4	6	0	0.000000	0.000000	0.863579
5	6	0	0.000000	-1.220171	0.170557
6	6	0	0.000000	-1.226362	-1.209103
7	7	0	0.000000	0.000000	-3.274878
8	1	0	0.000000	2.165503	-1.761900
9	1	0	0.000000	2.156187	0.727741
10	17	0	0.000000	0.000000	2.586385
11	1	0	0.000000	-2.156187	0.727741
12	1	0	0.000000	-2.165503	-1.761900

-----

E(UHCTH/407/Sapporo-DZP-2012) = -745.920465001 Hartree

$\langle S^2 \rangle$  = 2.0325

Cartesian coordinates of **11** optimized at the UHCTH/407/Sapporo-DZP-2012 level.

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	0.000000	-2.587747
2	6	0	0.000000	1.226304	-1.847999
3	6	0	0.000000	1.220649	-0.467567
4	6	0	0.000000	0.000000	0.222673
5	6	0	0.000000	-1.220649	-0.467567
6	6	0	0.000000	-1.226304	-1.847999
7	7	0	0.000000	0.000000	-3.913537

8	1	0	0.000000	2.165701	-2.400513
9	1	0	0.000000	2.159288	0.084822
10	35	0	0.000000	0.000000	2.114382
11	1	0	0.000000	-2.159288	0.084822
12	1	0	0.000000	-2.165701	-2.400513

-----  
E(UHCTH/407/Sapporo-DZP-2012) = -2861.22510531 Hartree

$\langle S^2 \rangle$  = 2.0326

Cartesian coordinates of **12** optimized at the UHCTH/407/Sapporo-DZP-2012 level.

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.000000	0.000000	-3.086843
2	6	0	0.000000	1.225931	-2.346724
3	6	0	0.000000	1.220272	-0.966082
4	6	0	0.000000	0.000000	-0.271241
5	6	0	0.000000	-1.220272	-0.966082
6	6	0	0.000000	-1.225931	-2.346724
7	7	0	0.000000	0.000000	-4.412301
8	1	0	0.000000	2.165677	-2.898864
9	1	0	0.000000	2.163628	-0.421582
10	53	0	0.000000	0.000000	1.838286
11	1	0	0.000000	-2.163628	-0.421582
12	1	0	0.000000	-2.165677	-2.898864

-----  
E(UHCTH/407/Sapporo-DZP-2012) = -7210.23006717 Hartree

$\langle S^2 \rangle$  = 2.0329

Cartesian coordinates of **13** optimized at the UHCTH/407/DZVP level.

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	7	0	0.000000	0.000000	2.493493
2	6	0	0.000000	1.169466	1.803340
3	6	0	0.000000	1.223196	0.371817
4	6	0	0.000000	0.000000	-0.377973

5	6	0	0.000000	-1.223196	0.371817
6	6	0	0.000000	-1.169466	1.803340
7	7	0	0.000000	2.283551	2.557405
8	53	0	0.000000	3.065450	-0.614548
9	7	0	0.000000	0.000000	-1.707148
10	53	0	0.000000	-3.065450	-0.614548
11	7	0	0.000000	-2.283551	2.557405

-----  
E(UHCTH/407/DZVP) = -14256.9130462 Hartree

$\langle S^2 \rangle$  = 12.0924

## 2. DFT calculations of the $\mathbf{D}^{\text{SO}}$ tensors of **1–3**.

The DFT-based  $\mathbf{D}^{\text{SO}}$  tensor calculations of **1–3** were carried out using three following approaches: Pederson–Khanna (PK), coupled-perturbed (CP), and quasi-restricted orbital (QRO) approaches. We used six pure exchange–correlation functionals (LDA, BP86, BLYP, PBE, RevPBE, and TPSS) and three basis sets (Ahrlrichs-DZ, cc-pVDZ, and cc-pVTZ). In **2** and **3**, the scalar relativistic calculations were carried out using the ZORA Hamiltonian,<sup>1,2</sup> in addition to the non-relativistic calculations. All the calculations were carried out at the UHCTH/407/6-31G\* optimized geometry.

The theoretical  $D^{\text{SO}}$  values of **1–3** are summarized in Tables S1–S3, respectively. The  $D^{\text{SO}}$  values of **1–3** as calculated at the hybrid CASSCF/MRMP2 method are  $-0.0124 \text{ cm}^{-1}$ ,  $+0.0065 \text{ cm}^{-1}$ , and  $-0.2537 \text{ cm}^{-1}$ , respectively. As pointed out below, we emphasize that the DFT approaches here fail to reproduce our hybrid CASSCF/MRMP2 result.

In the DFT-based approaches, the direction of the  $D^{\text{SO}}_{zz}$  axis depends on both the theoretical methods and the basis sets. In **1**, all the DFT calculations except for QRO-TPSS give negative  $D^{\text{SO}}$  values, and the  $D^{\text{SO}}_{zz}$  axis is perpendicular to the molecular plane, which is consistent with our hybrid CASSCF/MRMP2 result. In **2**, the PK method gives the  $\mathbf{D}^{\text{SO}}$  tensor in which the  $D^{\text{SO}}_{zz}$  axis is parallel to the direction connecting two chlorine atoms, and the other two methods (CP and QRO) predict the  $D^{\text{SO}}_{zz}$  axis to be perpendicular to the molecular plane. As discussed in the present study, the hybrid CASSCF/MRMP2 method predicts that the  $D^{\text{SO}}_{zz}$  axis is parallel to the  $C_2$  symmetry axis, and therefore, importantly all the DFT approaches fail to reproduce our hybrid CASSCF/MRMP2 result even qualitatively. In **3**, the  $D^{\text{SO}}_{zz}$  axis is predicted to be parallel to the direction connecting two bromine atoms, in which case the PK or CO method is adopted in conjunction with the cc-pVDZ and cc-pVTZ basis sets. The QRO method and the CP method with Ahrlrichs-DZ basis set give the  $D^{\text{SO}}_{zz}$  axis perpendicular to the molecular plane. In **3**, most calculations predict the positive sign of  $D^{\text{SO}}$ . Only the combination of the CP approach and Ahrlrichs-DZ basis set gives negative  $D^{\text{SO}}$  values in **3**, but the magnitude of  $D^{\text{SO}}$  is too large to agree with the experiment, and the direction of the  $D^{\text{SO}}_{zz}$  axis is different from our hybrid CASSCF/MRMP2 result.

1 E. van Lenthe, E. J. Baerends and J. G. Snijders, *J. Chem. Phys.*, 1993, **99**, 4597–4610.

2 E. van Lenthe, J. G. Snijders and E. J. Baerends, *J. Chem. Phys.*, 1996, **105**, 6505–6516.

**Table S1** Theoretical  $D^{\text{SO}}$  values of **1** as calculated by using the DFT approaches

Functional	Basis set	$D^{\text{SO}}/\text{cm}^{-1}$		
		PK	CP	QRO
LDA	Ahlrichs-DZ	-0.0089	-0.0129	-0.0040
	cc-pVDZ	-0.0085	-0.0122	-0.0041
	cc-pVTZ	-0.0101	-0.0145	-0.0046
BP86	Ahlrichs-DZ	-0.0069	-0.0105	-0.0013
	cc-pVDZ	-0.0066	-0.0100	-0.0015
	cc-pVTZ	-0.0076	-0.0116	-0.0012
BLYP	Ahlrichs-DZ	-0.0078	-0.0116	-0.0023
	cc-pVDZ	-0.0075	-0.0110	-0.0026
	cc-pVTZ	-0.0089	-0.0131	-0.0027
PBE	Ahlrichs-DZ	-0.0072	-0.0109	-0.0014
	cc-pVDZ	-0.0068	-0.0103	-0.0016
	cc-pVTZ	-0.0079	-0.0119	-0.0014
RevPBE	Ahlrichs-DZ	-0.0068	-0.0104	-0.0010
	cc-pVDZ	-0.0065	-0.0099	-0.0013
	cc-pVTZ	-0.0074	-0.0113	-0.0008
TPSS	Ahlrichs-DZ	-0.0056	-0.0089	+0.0003
	cc-pVDZ	-0.0053	-0.0084	-0.0005
	cc-pVTZ	-0.0060	-0.0097	+0.0004

**Table S2** Theoretical  $D^{\text{SO}}$  values of **2** as calculated by using the DFT approaches. Values in parenthesis are the relativistic DFT results using ZORA Hamiltonian

Functional	Basis set	$D^{\text{SO}}/\text{cm}^{-1}$		
		PK	CP	QRO
LDA	Ahlrichs-DZ	+0.0171 (+0.0172)	-0.0621 (-0.0624)	+0.1898 (+0.1912)
	cc-pVDZ	+0.0142 (+0.0141)	-0.0498 (-0.0494)	+0.1480 (+0.1465)
	cc-pVTZ	+0.0164 (+0.0163)	-0.0608 (-0.0607)	+0.1889 (+0.1884)
BP86	Ahlrichs-DZ	+0.0125 (+0.0126)	-0.0529 (-0.0532)	+0.1689 (+0.1699)
	cc-pVDZ	+0.0105 (+0.0104)	-0.0433 (-0.0430)	+0.1385 (+0.1382)
	cc-pVTZ	+0.0117 (+0.0117)	-0.0523 (-0.0522)	+0.1754 (+0.1750)
BLYP	Ahlrichs-DZ	+0.0146 (+0.0147)	-0.0565 (-0.0567)	+0.1762 (+0.1774)
	cc-pVDZ	+0.0122 (+0.0121)	-0.0455 (-0.0452)	+0.1396 (+0.1382)
	cc-pVTZ	+0.0140 (+0.0140)	-0.0558 (-0.0557)	+0.1792 (+0.1788)
PBE	Ahlrichs-DZ	+0.0127 (+0.0129)	-0.0535 (-0.0538)	+0.1708 (+0.1720)
	cc-pVDZ	+0.0107 (+0.0106)	-0.0439 (-0.0435)	+0.1403 (+0.1389)
	cc-pVTZ	+0.0119 (+0.0119)	-0.0528 (-0.0527)	+0.1766 (+0.1763)
RevPBE	Ahlrichs-DZ	+0.0118 (+0.0118)	-0.0515 (-0.0518)	+0.1654 (+0.1665)
	cc-pVDZ	+0.0099 (+0.0098)	-0.0426 (-0.0423)	+0.1385 (+0.1372)
	cc-pVTZ	+0.0109 (+0.0109)	-0.0508 (-0.0507)	+0.1729 (+0.1726)
TPSS	Ahlrichs-DZ	+0.0094 (+0.0094)	-0.0457 (-0.0459)	+0.1457 (+0.1468)
	cc-pVDZ	+0.0079 (+0.0078)	-0.0386 (-0.0383)	+0.1278 (+0.1266)
	cc-pVTZ	+0.0087 (+0.0087)	-0.0464 (-0.0463)	+0.1602 (+0.1600)

**Table S3** Theoretical  $D^{\text{SO}}$  values of **3** as calculated by using the DFT approaches. Values in parenthesis are the relativistic DFT results using ZORA Hamiltonian

Functional	Basis set	$D^{\text{SO}}/\text{cm}^{-1}$		
		PK	CP	QRO
LDA	Ahlrichs-DZ	+0.2911 (+0.3184)	-1.1922 (-1.3096)	+4.4348 (+4.8856)
	cc-pVDZ	+0.2545 (+0.2193)	+1.1960 (+1.0570)	+4.3017 (+3.8276)
	cc-pVTZ	+0.2884 (+0.2566)	+1.4471 (+1.3158)	+5.5162 (+5.0369)
BP86	Ahlrichs-DZ	+0.1962 (+0.2148)	-1.0247 (-1.1269)	+3.9214 (+4.3243)
	cc-pVDZ	+0.1713 (+0.1482)	+1.0289 (+0.9133)	+3.9856 (+3.5517)
	cc-pVTZ	+0.1871 (+0.1673)	+1.2374 (+1.1300)	+5.1055 (+4.6696)
BLYP	Ahlrichs-DZ	+0.2384 (+0.2610)	-1.0765 (-1.1826)	+4.0690 (+4.4811)
	cc-pVDZ	+0.2077 (+0.1794)	+1.0833 (+0.9593)	+4.0440 (+3.5991)
	cc-pVTZ	+0.2331 (+0.2080)	+1.3139 (+1.1978)	+5.2148 (+4.7681)
PBE	Ahlrichs-DZ	+0.1978 (+0.2166)	-1.0349 (-1.1390)	+3.9959 (+4.4096)
	cc-pVDZ	+0.1727 (+0.1494)	+1.0326 (+0.9166)	+4.0407 (+3.6008)
	cc-pVTZ	+0.1877 (+0.1681)	+1.2354 (+1.1291)	+5.1425 (+4.7063)
RevPBE	Ahlrichs-DZ	+0.1788 (+0.1959)	-1.0060 (-1.1081)	+3.9008 (+4.3073)
	cc-pVDZ	+0.1566 (+0.1357)	+1.0051 (+0.8936)	+3.9943 (+3.5623)
	cc-pVTZ	+0.1674 (+0.1502)	+1.1946 (+1.0933)	+5.0537 (+4.6299)
TPSS	Ahlrichs-DZ	+0.1372 (+0.1504)	-0.8882 (-0.9800)	+3.3625 (+3.7203)
	cc-pVDZ	+0.1208 (+0.1047)	+0.9241 (+0.8238)	+3.6809 (+3.2911)
	cc-pVTZ	+0.1293 (+0.1160)	+1.1105 (+1.0174)	+4.7038 (+4.3108)

3. UBP86/cc-pVDZ frontier orbitals of **3**.

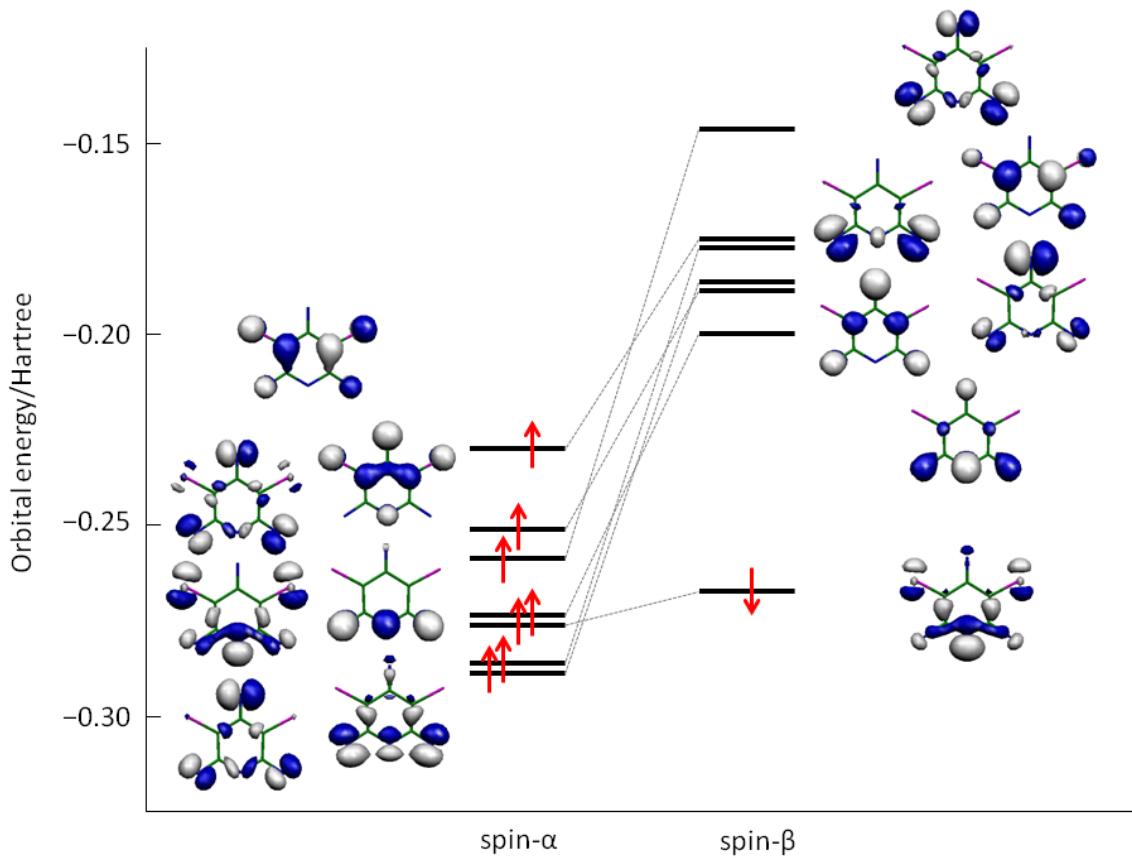


Fig. S1. UBP86/cc-pVDZ frontier orbitals of **3**. Red arrows denote electron occupations.

4. Spin configuration-based and orbital region partitioning-based analyses of the  $\mathbf{D}^{\text{SO}}$  tensors of **1**, **2**, and **9–12** as calculated at PK-DFT.

The  $\mathbf{D}^{\text{SO}}$  tensors calculated by means of Pederson–Khanna DFT approach can be analyzed in terms of the spin configuration-based method and the orbital region partitioning-based method, which has been proposed by us. All the calculations were carried out by using GAMESS-US software and laboratory-coded programs. The BP86 exchange–correlation functional was used for all the calculations. The cc-pVDZ and the Sapporo-DZP-2012 basis sets were used for **1** and **2**, and for **9–12**, respectively. The spin–orbit coupling integrals were evaluated using one-electron SOC Hamiltonian with effective nuclear charges (ZEFTYP=3-21G in GAMESS input). The decomposed  $\mathbf{D}^{\text{SO}}$  tensors are given in Tables S4–S9.

**Table S4** The decomposed  $\mathbf{D}^{\text{SO}}$  tensor of **1** on the basis of the spin configurations and orbital region partitioning.

Excitations	$D_{xx}/\text{cm}^{-1}$	$D_{yy}/\text{cm}^{-1}$	$D_{zz}/\text{cm}^{-1}$
$\alpha \rightarrow \alpha$	-0.03507	-0.03793	-0.03638
$\beta \rightarrow \beta$	-0.03898	-0.04543	-0.04008
$\alpha \rightarrow \beta$	0.04251	0.06242	0.05716
$\beta \rightarrow \alpha$	0.03144	0.03202	0.02922
.....	.....	.....	.....
DOR → UOR	0.00002	0.00015	0.00010
SOR → UOR	-0.00003	-0.00006	-0.00005
DOR → SOR	0.00295	0.01130	0.00868
SOR → SOR	-0.00304	-0.00031	0.00118

**Table S5** The decomposed  $\mathbf{D}^{\text{SO}}$  tensor of **2** on the basis of the spin configurations and orbital region partitioning.

Excitations	$D_{xx}/\text{cm}^{-1}$	$D_{yy}/\text{cm}^{-1}$	$D_{zz}/\text{cm}^{-1}$
$\alpha \rightarrow \alpha$	-0.73145	-0.63856	-0.69632
$\beta \rightarrow \beta$	-0.73203	-0.71875	-0.73626
$\alpha \rightarrow \beta$	0.73596	0.75718	0.76823
$\beta \rightarrow \alpha$	0.72669	0.61812	0.67301
.....	.....	.....	.....
DOR → UOR	0.00065	0.00057	0.00078
SOR → UOR	-0.00071	-0.00092	-0.00138
DOR → SOR	0.00352	0.02267	0.00723
SOR → SOR	-0.00429	-0.00433	0.00203

**Table S6** The decomposed  $\mathbf{D}^{\text{SO}}$  tensor of **9** on the basis of the spin configurations and orbital region partitioning.

Excitations	$D_{xx}/\text{cm}^{-1}$	$D_{yy}/\text{cm}^{-1}$	$D_{zz}/\text{cm}^{-1}$
$\alpha \rightarrow \alpha$	-2.23000	-2.75714	-1.16286
$\beta \rightarrow \beta$	-2.07143	-2.52178	-1.10907
$\alpha \rightarrow \beta$	2.23702	2.76597	1.26205
$\beta \rightarrow \alpha$	2.06095	2.50999	1.07332
GOR → UOR	-0.00005	0.00027	0.00001
SOR → UOR	-0.00109	-0.00183	-0.00001
GOR → SOR	-0.00232	-0.00142	0.00836
SOR → SOR	0.00000	0.00000	0.05508

**Table S7** The decomposed  $\mathbf{D}^{\text{SO}}$  tensor of **10** on the basis of the spin configurations and orbital region partitioning.

Excitations	$D_{xx}/\text{cm}^{-1}$	$D_{yy}/\text{cm}^{-1}$	$D_{zz}/\text{cm}^{-1}$
$\alpha \rightarrow \alpha$	-63.57499	-81.09573	-44.87691
$\beta \rightarrow \beta$	-63.23203	-79.41198	-44.93132
$\alpha \rightarrow \beta$	63.41209	81.01547	45.15162
$\beta \rightarrow \alpha$	63.39056	79.47558	44.70543
GOR → UOR	0.00031	0.01017	0.00008
SOR → UOR	-0.00234	-0.02396	-0.00008
GOR → SOR	-0.00235	-0.00287	0.01048
SOR → SOR	0.00000	0.00000	0.03834

**Table S8** The decomposed  $\mathbf{D}^{\text{SO}}$  tensor of **11** on the basis of the spin configurations and orbital region partitioning.

Excitations	$D_{xx}/\text{cm}^{-1}$	$D_{yy}/\text{cm}^{-1}$	$D_{zz}/\text{cm}^{-1}$
$\alpha \rightarrow \alpha$	-5988.45701	-6528.10178	-4464.22181
$\beta \rightarrow \beta$	-5971.47814	-6406.47197	-4458.72340
$\alpha \rightarrow \beta$	5971.15302	6510.77034	4466.16947
$\beta \rightarrow \alpha$	5988.78324	6422.29560	4456.76789
GOR → UOR	0.11334	1.48831	0.00934
SOR → UOR	-0.10938	-2.96260	-0.01166
GOR → SOR	-0.00285	-0.03352	-0.00722
SOR → SOR	0.00000	0.00000	0.00170

**Table S9** The decomposed  $\mathbf{D}^{\text{SO}}$  tensor of **12** on the basis of the spin configurations and orbital region partitioning.

Excitations	$D_{xx}/\text{cm}^{-1}$	$D_{yy}/\text{cm}^{-1}$	$D_{zz}/\text{cm}^{-1}$
$\alpha \rightarrow \alpha$	-30575.83214	-31869.52931	-24168.95133
$\beta \rightarrow \beta$	-30536.72331	-31457.69619	-24161.25987
$\alpha \rightarrow \beta$	30532.77439	31853.89979	24200.00438
$\beta \rightarrow \alpha$	30579.79862	31470.03486	24129.99989
.....	.....	.....	.....
GOR → UOR	0.83321	3.99230	0.20160
SOR → UOR	-0.80813	-7.02860	-0.31688
GOR → SOR	-0.00753	-0.25456	-0.65933
SOR → SOR	0.00000	0.00000	0.56767