

**Structural evolution from exohedral to endohedral geometries, dynamical
fluxionality, and structural forms of medium-sized anionic and neutral Au₂Si_n (n
= 8–20) clusters**

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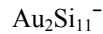
Table S1. Cartesian coordinates for the stable isomers of $\text{Au}_2\text{Si}_{8-20}^-$ clusters.

Au_2Si_8^-							
8A			8B				
	X	Y	Z		X	Y	Z
Si	0.19640000	-1.42930000	1.26770000	Si	1.06770000	0.48750000	-1.75930000
Si	0.90740000	1.05600000	-1.98030000	Si	1.51760000	2.71580000	-0.98480000
Si	-1.44350000	1.00970000	-1.41280000	Si	1.80130000	1.36780000	1.03540000
Si	0.37570000	0.30380000	2.90190000	Si	-0.26110000	1.25210000	2.41340000
Si	-1.00090000	1.31400000	1.37270000	Si	0.06030000	-0.94880000	1.58290000
Si	0.42900000	2.74350000	-0.38120000	Si	-1.23860000	0.06620000	-2.13170000
Si	1.79030000	1.39100000	1.21580000	Si	-1.07030000	2.29490000	-1.34700000
Au	-1.73390000	-1.05420000	-0.15480000	Au	-1.80360000	-1.03900000	-0.00670000
Au	1.86170000	-0.59440000	-0.36500000	Au	1.87710000	-1.05930000	-0.04630000
Si	-1.97550000	2.91390000	-0.05020000	Si	-2.13290000	1.42240000	0.69910000
8C			8D				
	X	Y	Z		X	Y	Z
Si	1.09300000	2.41350000	0.63320000	Si	-0.38440000	-2.84080000	-0.39260000
Si	-0.17660000	2.21600000	-1.32710000	Si	0.72590000	2.19390000	0.23820000
Si	3.44260000	1.96920000	0.02080000	Si	-1.71510000	1.69910000	0.86590000
Si	1.88760000	0.87020000	-1.39950000	Si	-1.34000000	-1.76000000	1.38880000
Si	2.90230000	-0.32400000	0.65010000	Si	0.18710000	-0.56720000	2.67570000
Si	2.00310000	-1.52750000	-1.14880000	Si	-0.04920000	1.88070000	2.50520000
Si	0.81410000	-0.60140000	1.78070000	Si	1.29250000	-1.82150000	0.96270000
Au	-0.21080000	-1.87510000	-0.02230000	Au	-1.32150000	-0.29040000	-0.70280000
Au	-1.79730000	0.74350000	-0.17730000	Au	1.74570000	0.08860000	-0.53300000
Si	-0.63460000	1.36940000	1.91640000	Si	-1.11040000	2.35440000	-1.27010000
Au_2Si_9^-							
9A			9B				
	X	Y	Z		X	Y	Z
Si	-1.15870000	0.23800000	-2.59430000	Si	1.06770000	0.48750000	-1.75930000
Si	-1.88740000	1.69230000	-0.79820000	Si	1.51760000	2.71580000	-0.98480000
Si	0.58610000	1.38490000	-1.53430000	Si	1.80130000	1.36780000	1.03540000
Si	-0.19190000	3.19590000	-0.15970000	Si	-0.26110000	1.25210000	2.41340000
Si	-0.75840000	1.73760000	1.72180000	Si	0.06030000	-0.94880000	1.58290000
Si	-3.04390000	1.26800000	1.40630000	Si	-1.23860000	0.06620000	-2.13170000
Si	-1.72770000	-0.68160000	1.43170000	Si	-1.07030000	2.29490000	-1.34700000
Si	0.72760000	-0.06360000	2.18120000	Au	-1.80360000	-1.03900000	-0.00670000
Si	-0.19420000	-2.29920000	1.90060000	Au	1.87710000	-1.05930000	-0.04630000
Au	-0.62940000	-1.33670000	-0.69510000	Si	-2.13290000	1.42240000	0.69910000
Au	1.98480000	0.18970000	0.06510000	Si	-0.15860000	3.18230000	0.79120000
9C			9D				
	X	Y	Z		X	Y	Z
Si	1.14786300	-0.40121500	1.59074400	Si	0.83300000	0.75720000	1.58690000
Si	0.05522200	1.81486000	1.03670500	Si	-1.80090000	0.43410000	-1.92460000
Si	-2.05677400	-1.61557300	-0.24471500	Si	-0.81210000	-1.71240000	-1.47970000
Si	-2.01566700	0.92826400	-0.16291500	Si	-0.72220000	-0.64790000	2.69040000
Si	1.44944200	-1.58918200	-0.77494800	Si	-0.63090000	-2.32860000	1.00600000
Si	-0.15365800	1.89405000	-1.46079700	Si	-2.85840000	-0.74550000	-0.22300000
Si	2.97011300	0.17432400	0.00187600	Si	-2.11980000	0.85980000	1.45310000
Si	-1.27342000	-0.34950700	1.90405700	Au	2.17030000	-0.22980000	-0.16050000
Au	1.05975200	0.55901600	-0.47757100	Au	-0.51560000	1.81760000	-0.25170000
Si	-0.43698800	-0.53729600	-1.84572100	Si	-2.43470000	-3.11730000	-0.33230000

Au -0.18092500 -1.45143900 0.35357200 Si 1.20850000 -2.45920000 -0.45070000



10A			10B				
X	Y	Z	X	Y	Z		
Si	2.03594100	-1.75959900	-0.33895400	Si	0.61020000	1.77830000	-1.37130000
Si	-0.10896000	-1.76235300	-1.38611100	Si	0.41820000	-0.79400000	0.08560000
Si	-0.79181700	0.59196100	-1.73631300	Si	-2.01800000	1.04180000	-1.28060000
Si	0.94493900	2.19631300	-0.93904000	Si	-3.04640000	2.46430000	0.20340000
Si	2.66049400	0.72205500	0.06349400	Si	-0.72510000	3.31330000	-0.11900000
Si	0.10597600	-1.76342800	1.38547100	Si	2.68070000	1.76310000	-0.11030000
Si	-2.03896200	-1.75695500	0.33821400	Si	0.68220000	1.91890000	1.19680000
Si	-2.65927200	0.72670700	-0.06288100	Si	-0.07350000	-0.01750000	2.32500000
Si	-0.94080200	2.19719200	0.93970600	Si	-2.27690000	0.52280000	1.44850000
Si	0.79240000	0.58936300	1.73660900	Au	-2.21840000	-1.40000000	-0.05370000
Au	-0.78735600	0.02647100	0.41543900	Au	2.92460000	-0.67720000	0.03000000
Au	0.78753500	0.02601300	-0.41598400	Si	-0.23630000	-0.26960000	-2.24400000
10C			10D				
X	Y	Z	X	Y	Z		
Si	1.79390000	-2.15180000	0.11660000	Si	2.45530000	0.66320000	-1.60090000
Si	-0.03560000	-1.76100000	1.51850000	Si	-0.63590000	-0.34850000	0.16750000
Si	-0.33530000	-2.14700000	-0.98680000	Si	0.12170000	0.99140000	-1.67030000
Si	-2.17390000	-2.44140000	0.56240000	Si	-0.44730000	3.27270000	-1.53140000
Si	-2.54780000	2.27350000	0.65960000	Si	1.81740000	2.81120000	-0.79480000
Si	-0.88140000	-0.12200000	3.08150000	Si	3.37120000	-0.92630000	0.01190000
Si	-0.35040000	1.69670000	1.57990000	Si	2.21310000	0.75820000	1.16240000
Si	-0.67460000	2.19650000	-0.93240000	Si	0.05880000	0.57970000	2.25490000
Si	1.44540000	2.21270000	0.13530000	Si	-0.36120000	2.52050000	0.80980000
Au	2.64510000	0.11060000	-0.10550000	Au	-3.00880000	-0.26620000	0.00150000
Au	-1.52770000	-0.05000000	-1.15710000	Au	1.14840000	-2.10570000	-0.07490000
Si	-2.54580000	-0.09850000	1.38990000	Si	1.90450000	3.06210000	1.60540000



		11A			11B		
		X	Y	Z	X	Y	Z
Si	-3.66514300	0.80235400	-1.66597600	Si	-2.22948200	-0.66349000	1.53028700
Si	-4.29072100	1.99040000	0.39506500	Si	-0.50791300	1.30145200	-1.01986700
Si	-1.27616000	0.56060000	-1.89905100	Si	-1.28171200	2.97680900	0.51833600
Si	-1.89916300	2.31583000	-0.30540600	Si	-3.81015100	2.75516000	0.86035400
Si	-0.62631900	0.52783600	0.70373400	Si	-4.27949900	0.24640000	0.79221900
Si	-4.33666500	-0.48528900	0.68593100	Si	-1.84248300	-2.68519500	0.34262600
Si	-0.92059700	-1.50868800	-0.62083800	Si	-2.88162900	-0.85477400	-0.83733500
Au	2.71974200	1.53452900	-0.12773100	Si	-2.05011300	0.45596200	-2.64825200
Au	1.43301000	-1.94918500	-0.05006400	Si	-3.19858200	1.84130900	-1.10057700
Si	-3.29267200	-1.53928500	-1.20975700	Au	3.26472800	1.15219700	0.00820900
Si	-2.23234500	-1.38520100	1.49479700	Au	0.52847400	-2.27887600	-0.01630000
Si	-2.59192100	1.00699900	2.02045000	Si	-0.52490300	0.95557200	1.47078600
Si	1.69832200	0.05428900	1.40432300	Si	1.20197400	0.02848400	0.13707900
		11C			11D		
		X	Y	Z	X	Y	Z
Si	2.99782400	0.72254900	0.24103900	Si	1.40824400	1.99465700	-1.39144400
Si	2.70204800	-0.82694900	-1.49769200	Si	0.14625700	-0.38717500	-0.00011100
Si	3.02691500	-0.67884300	2.23132900	Si	-1.97758100	1.58757500	-1.35248100
Si	1.77942600	-1.93238400	0.56324800	Si	-2.26097000	3.61580600	-0.00092000
Si	0.87046300	0.15092800	2.16864600	Si	0.04351000	3.30174700	0.00065500
Si	-0.99862100	-1.28640200	1.50361400	Si	3.24355800	1.38966100	0.00154500
Si	-1.20071000	2.32555500	-0.43814700	Si	1.40688300	1.99387600	1.39330300
Au	-2.37959800	0.31587100	0.28314200	Si	-0.10603200	0.36456600	2.29435200
Au	0.06328500	-0.72059200	-1.06684100	Si	-1.97868900	1.58701100	1.35138000
Si	0.92660400	1.62388400	-1.40117900	Au	-1.96428000	-1.82376000	0.00017400
Si	0.64254600	2.26087300	1.06196500	Au	2.59271600	-1.02534600	-0.00028500
Si	2.56991700	3.00487200	-0.19462800	Si	-0.10317200	0.36484600	-2.29441800
Si	-0.24578700	-3.08029400	0.18411000	Si	-3.36818400	0.26453000	-0.00123400



		12A			12B		
		X	Y	Z	X	Y	Z
Si	-1.78398200	1.88741500	1.32466600	Si	-1.23500000	-2.55680600	-1.68567900
Si	0.46210500	0.13091100	-0.53721700	Si	1.19410800	2.03806000	-0.93860200
Si	1.89671200	1.53243400	1.39919800	Si	2.94861500	2.10435900	0.67532900
Si	1.77144600	3.78831000	0.63432500	Si	1.32773200	-2.14978000	1.74054400
Si	-0.67326000	3.72614700	0.42180000	Si	-0.80210600	-2.19595600	0.71602800
Si	-3.37295100	1.09026900	-0.25273200	Si	-0.84218400	2.57139700	0.11947500
Si	-1.55431100	2.24700900	-1.20523500	Si	0.76415500	1.69860900	1.56409400
Si	0.20394200	1.25501100	-2.54687300	Si	-0.12977700	-0.41122600	2.38299500
Si	2.02793100	2.12963100	-1.09733000	Si	-2.39481800	-0.97514200	1.99837400
Au	2.15411100	-1.71102500	-0.06425300	Si	-1.17252500	-0.16511100	-2.11037100
Au	-2.51602300	-1.23715000	-0.04201000	Si	0.90326100	-1.60081300	-1.76439000
Si	-0.08881200	0.31114000	1.78524300	Si	0.93912100	0.51324300	-2.88556200
Si	3.42630600	0.44749500	-0.09087300	Au	2.02776300	-0.36350000	0.06443500
Si	-0.27290900	-1.90963800	0.76465600	Au	-2.29368900	0.56360600	-0.03116000
		12C			12D		
		X	Y	Z	X	Y	Z
Si	-2.19501100	2.38825500	-0.46659100	Si	0.91398400	1.64147000	1.40275200
Si	-1.11727000	-2.01112100	1.40844200	Si	0.39693800	2.62314600	-0.98792100
Si	-0.92624600	-2.58379800	-1.08992900	Si	0.06836800	-0.74409000	1.42735600
Si	-0.64521700	-0.49047700	-2.39806700	Si	-0.94157300	3.20317400	0.99812400
Si	0.07372900	2.18066000	-1.15173200	Si	-1.76955600	0.93051000	1.65732600
Si	-0.61975900	2.04558600	1.29954700	Si	-0.79485400	0.85547700	-2.31019800
Si	-1.48818500	0.13949900	2.61812100	Si	1.05379900	0.10042000	-0.73464100
Si	0.75701300	-0.54405700	2.30520100	Au	-3.86793400	-1.32135900	-0.13368800
Si	1.26561900	-2.53189200	0.92665000	Au	4.40759000	-0.99030800	0.24508500
Si	1.39141600	-1.74393000	-1.53485700	Si	2.61012000	2.03550900	-0.27447700
Si	1.60613800	2.56747600	0.62894000	Si	-1.52680300	-0.58493200	-0.44732700
Si	1.45762300	0.62090300	-2.47616700	Si	-2.33411800	1.88794500	-0.62789400
Au	1.96074500	0.11731500	0.20587900	Si	3.36521000	0.16305500	-1.55838700
Au	-1.88274400	-0.12389000	-0.21820600	Si	-4.08671800	0.93272500	0.82669000

$\text{Au}_2\text{Si}_{13}^-$							
	13A				13B		
	X	Y	Z		X	Y	Z
Si	-0.44375500	3.33895300	1.47277200	Si	-1.44931900	1.09658400	-1.59038400
Si	-2.04386500	2.12221200	0.24220700	Si	-0.56473900	3.24483000	-0.71304600
Si	-1.28883400	-2.65378200	-0.97888700	Si	1.19149200	-0.75532500	-0.62590300
Si	-0.65110300	-1.04774400	2.05296500	Si	0.99448400	1.18063500	-2.07834100
Si	1.22272700	-2.50702400	2.35240300	Si	2.08768700	1.83463100	-0.00229300
Si	0.55297600	2.30181900	-0.46046900	Si	0.15033700	2.32677200	1.74606300
Si	0.15093200	-1.09173100	-2.02313700	Si	-1.77198700	-0.39905900	0.32730100
Si	0.85681100	-2.55665100	-0.02788800	Au	3.51569400	-1.41994700	-0.36410500
Si	0.14961500	1.12538800	2.38653800	Au	-3.84420500	-1.47739200	0.04794300
Si	1.88804000	-0.28648700	1.76282100	Si	-2.02869700	1.85695800	0.91575900
Si	2.41791300	-1.61508600	-1.56032600	Si	1.25385900	0.19909800	1.84633100
Au	2.39028400	0.63854000	-0.44980900	Si	1.28455200	4.06105200	0.55271100
Au	-2.14468400	-0.54389000	0.12180300	Si	-2.88558400	3.06299600	-1.03265900
Si	-0.90730500	1.10505100	-1.89761100	Si	3.58721000	0.42641700	1.26512500
Si	-3.29003300	1.23098700	-1.47049600	Si	0.00444500	-1.78631700	1.17339200
	13C				13D		
	X	Y	Z		X	Y	Z
Si	-1.93723300	0.86631200	-1.95832300	Si	2.52458700	1.58038700	-1.15268800
Si	-1.73083100	3.10308200	-0.83670000	Si	-0.33536300	0.23596000	0.48737400
Si	0.65901100	-0.12755500	-0.26158100	Si	-1.14599500	1.97834800	-1.56553800
Si	0.36326100	1.83245400	-1.69370900	Si	-0.48862900	4.12140700	-0.72514100
Si	0.65727900	2.31713000	0.70921900	Si	1.94217200	3.62789500	-0.23150300
Si	-1.77597000	2.37587200	1.73527100	Si	3.73404600	0.32904300	0.45100500
Si	-1.76869500	-0.48284600	0.14329300	Si	2.19211400	1.88829800	1.32155900
Au	4.22519800	-0.43104500	-0.43933800	Si	0.18559000	1.36069500	2.50478800
Au	-2.47387900	-2.71064800	0.03383300	Si	-1.24391400	2.72320100	1.05215200
Si	-3.37592400	1.34707200	0.28090100	Au	-3.26559400	-0.99663900	0.02450900

Si	1.73477200	0.66361700	2.05521400	Au	2.52161500	-1.77386200	-0.00217600
Si	-0.66476900	4.33269000	0.97584100	Si	0.57775400	0.39571300	-1.74698800
Si	-3.80722900	2.50374400	-1.79732700	Si	-2.90516900	1.39711100	-0.11137300
Si	2.40945000	-1.33934300	0.80070600	Si	0.32849400	-1.92431400	-1.11788700
Si	-0.64556400	0.33589200	2.13540100	Si	-1.16752100	-2.08020600	0.70821600

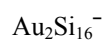
Au ₂ Si ₁₄ ⁻							
	14A				14B		
	X	Y	Z	Si	X	Y	Z
Si	-2.36257200	1.45921300	-1.46990600	Si	2.19768400	0.67722000	-1.90244700
Si	-0.57952800	3.03138900	-0.40383500	Si	-0.05514200	0.66258800	1.01307700
Si	0.77672500	0.04620900	-1.38320900	Si	-1.15386300	2.24644600	-0.91111700
Si	-0.24483600	1.89758200	-2.49617800	Si	0.24000200	4.22445100	-0.91783800
Si	2.53926900	1.61271900	0.55947300	Si	2.20912600	2.87537000	-1.20675800
Si	-0.03322500	1.67902500	1.78069800	Si	3.94608900	-0.44525300	-0.69397000
Si	-2.22425400	-0.42241900	-0.01722000	Si	3.05814600	1.44659200	0.39670800
Au	4.09957600	-1.26007900	-0.16711300	Si	1.60657400	1.67028300	2.33248100
Au	-4.26099400	-1.58385600	0.11956500	Si	0.07368000	3.26304300	1.27390400
Si	-2.28839500	1.59309900	1.24294200	Au	-3.30553300	-0.64352500	-0.22184800
Si	0.93937300	-0.40506700	1.30152900	Au	2.20140400	-1.91908400	0.25521000
Si	1.24974200	3.56518800	1.20255800	Si	-0.07978400	0.18205900	-1.39454200
Si	-2.99627800	3.42380800	-0.20596100	Si	-2.15147500	2.21465200	1.25329500
Si	3.25852500	-0.22778600	1.90374300	Si	-0.22511700	-1.93369800	0.37023600
Si	-0.23605100	-1.80485200	-0.24814700	Si	-1.87903800	-0.86921000	1.78148800
Si	3.11236600	0.59981100	-1.49818400	Si	-1.55644200	-1.75410600	-1.58277000
	14C				14D		
	X	Y	Z	Si	X	Y	Z
Si	2.74708100	1.50514000	-1.25043500	Si	-1.19939100	0.60372800	-1.29979200
Si	-0.21021800	0.34576900	0.00118700	Si	-1.45048700	2.90744700	-0.74683200
Si	-0.86709000	2.52176100	-1.42878100	Si	1.54148900	-0.96138400	-0.41631500
Si	0.09276700	4.20651700	-0.00247200	Si	0.97027700	0.36057300	-2.27750100
Si	2.48771500	3.46249300	-0.00007900	Si	1.81540600	1.84025300	-0.52446500
Si	3.89153400	-0.10539200	0.00117300	Si	0.21059600	2.40891000	1.51972000
Si	2.74528400	1.50534300	1.25055800	Si	-1.42872200	-0.78920400	0.75834500
Si	0.66634500	0.78328400	2.18936800	Au	3.98532700	-1.05683200	-0.26381300
Si	-0.86757900	2.52449800	1.42687300	Au	-3.60853400	-1.57989000	0.03936200

Au	-3.45654400	-0.57611400	0.00010600	Si	-1.90109900	1.43787300	1.24931700
Au	2.06253600	-1.89867100	-0.00009200	Si	1.61383900	0.54323600	1.80951300
Si	0.66770700	0.78058700	-2.18677400	Si	0.68506900	4.00767100	-0.14633600
Si	-2.58487200	1.68114900	-0.00055300	Si	-3.71537600	2.55826000	0.15249900
Si	0.25781600	-1.69788300	-1.75498300	Si	3.72910500	1.14979600	0.81441000
Si	-1.41827300	-1.85222800	0.00012200	Si	0.65323000	-1.69999500	1.65193700
Si	0.25796900	-1.69618200	1.75471500	Si	-3.65012400	0.51148300	-1.27795700



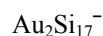
	15A				15B		
	X	Y	Z	Si	X	Y	Z
Si	2.33256800	1.47771000	1.50391300	Si	-1.82810700	1.56762700	1.47879800
Si	0.71939600	3.27945300	0.62378800	Si	0.28999900	0.91609300	2.53545700
Si	-0.99967400	0.26691200	1.48140900	Si	0.42077900	-1.43433800	1.97690200
Si	0.28471700	1.94829200	2.58032400	Si	-1.16653500	-2.38646300	0.42583600
Si	-2.48670900	1.84919300	-0.47966500	Si	-1.90563400	1.02567400	-1.76566800
Si	0.11849400	2.09791400	-1.78501100	Si	-0.74898900	2.64619400	-0.36687300
Si	2.17195200	-0.26184800	-0.10460400	Si	1.70829500	3.27972700	-0.55257400
Au	-3.49913900	-1.37369000	0.01360400	Si	2.18595800	1.58725400	1.16106500
Au	3.99657600	-1.72209200	-0.20084100	Si	4.13461500	0.14404000	1.28206300
Si	2.36121700	1.80986200	-1.26013800	Si	2.61434900	-1.70060400	1.08095000
Si	-1.06092200	0.09298200	-1.73684400	Si	0.07953900	-0.13263100	-2.67044500
Si	-1.13359900	3.86081600	-0.90433000	Si	1.85285800	1.21098700	-1.81295200
Si	3.12774000	3.47725200	0.38582900	Si	0.58807800	-2.08260100	-1.24964500
Si	-3.42102600	0.24699700	-1.97402100	Si	3.41504400	-0.34855100	-0.91364100
Si	0.00623800	-1.26972300	-0.19365800	Si	2.91881100	-2.72260400	-1.01781200
Si	-3.34410300	0.73631300	1.44406400	Au	0.15574300	0.18190900	-0.01301200
Si	-1.48325500	-2.14306700	1.47549200	Au	-2.73583000	-0.46010300	0.08541100
	15C				15D		
	X	Y	Z	Si	X	Y	Z
Si	-0.94158700	-0.78182500	-1.01893600	Si	2.13264700	0.74946300	-1.94801500
Si	-1.97795400	2.01998800	-0.67324400	Si	0.24670600	0.44615800	0.97335400
Si	2.04052900	-1.03714200	-0.03037100	Si	-1.40121300	1.86430900	-0.93307000
Si	1.14904300	-0.44919600	-2.11829400	Si	-0.26164400	4.01956200	-0.92813700
Si	1.65614900	1.55971600	-0.83759400	Si	1.87105300	2.93447900	-1.25903100
Si	0.15966800	2.16850600	1.26545100	Si	4.17705100	-0.10014800	-0.93300700
Si	-0.88750600	-1.34029500	1.39756600	Si	3.08432300	1.67484700	0.24264300
Au	4.46419200	-0.62726600	-0.27012100	Si	1.73692200	1.70521100	2.25801600

Au	-4.09248900	-0.61200400	-0.07056600	Si	-0.02754500	3.04532100	1.24124000
Si	-1.68647100	0.82965100	1.63025200	Au	-3.12532500	-0.96010900	-0.26383000
Si	2.03475900	0.88521200	1.75889400	Au	2.59436000	-1.60661900	0.27112700
Si	0.03004700	3.44584000	-0.69760600	Si	-0.04238800	-0.04142900	-1.41189200
Si	-3.75659900	1.74307100	0.87807600	Si	-1.96042200	1.64374300	1.66434100
Si	3.80256700	1.68762000	0.30513600	Si	0.10203500	-1.94541400	0.54569700
Si	1.44847300	-1.47967500	2.19424500	Si	-1.79776500	-0.84397400	1.91548600
Si	-2.80487100	0.29212500	-2.08398100	Si	-1.24694500	-2.14710300	-1.41896400
Si	-2.36371900	-2.55057000	-0.04714700	Si	-3.61665200	1.47865500	-0.04983800



		16A			16B		
		X	Y	Z	X	Y	Z
Si	2.36548100	1.52044100	1.47936600	Si	2.09918500	2.05771200	-1.94818800
Si	0.82985200	3.43729000	0.62101500	Si	-0.32816000	1.34324100	-2.04820600
Si	-0.98956600	0.55143000	1.49982700	Si	-0.58966200	-2.37508800	-0.46748300
Si	0.37055400	2.15134400	2.58935500	Si	1.61931600	2.66069800	0.35514900
Si	-2.41815400	2.12656900	-0.47087000	Si	-0.72824900	2.35665100	0.61157900
Si	0.14136800	2.26657500	-1.76804900	Si	0.23534100	1.02396100	2.26386900
Si	2.14776200	-0.20788800	-0.13641600	Si	-0.42196000	-1.23837600	2.04036000
Au	-3.23806800	-1.30352200	-0.02516600	Si	2.53142400	1.85374700	2.53190600
Au	3.91724500	-1.72790700	-0.22930100	Si	1.70215700	-2.04652500	1.34274600
Si	2.37065600	1.86680400	-1.27500100	Si	3.21008800	-0.18070900	1.26208400
Si	-1.15226900	0.33161500	-1.79541000	Si	1.43652900	-3.76182900	-0.32649700
Si	-1.01190900	4.09556500	-0.88111700	Si	2.12286500	-1.77925600	-1.57061300
Si	3.23726600	3.49023400	0.35516900	Si	-0.02886300	-1.02608900	-2.34617500
Si	-3.54634000	0.49086100	-1.79622700	Si	3.64846500	0.02570100	-1.15206300
Si	-0.07592900	-1.07065600	-0.22124700	Si	-2.39765400	-2.12614400	1.04028400
Si	-3.42330000	0.92090600	1.28616200	Si	-2.38831100	2.17769100	-1.07621900
Si	-1.37102600	-3.12160600	0.01319900	Au	0.99005000	0.13410900	-0.13607400
Si	-1.30694400	-1.74356300	1.93616100	Au	-3.06745700	0.04924100	0.04524500
		16C			16D		
		X	Y	Z	X	Y	Z
Si	2.37675200	1.47167100	1.56942800	Si	-0.88279500	-1.01406000	-0.88771400
Si	0.72330600	3.26862500	0.75874900	Si	-1.86173400	1.95916100	-0.83447800
Si	-1.01513200	0.23764300	1.58521100	Si	2.15294200	-1.00904000	0.20869600
Si	0.33446200	1.90767000	2.69344400	Si	1.27117400	-0.92117100	-1.98534600
Si	-2.28464700	1.81608700	-0.71051600	Si	1.69262600	1.33514000	-1.16883300
Si	0.23761700	2.13875300	-1.76371900	Si	0.21441500	2.42529400	0.81389300
Si	2.30996800	-0.15978800	-0.14529200	Si	-0.72096400	-0.65676000	1.56194900

Au	-3.31639900	-1.25476100	-0.21031700	Au	4.55329600	-0.65132900	-0.13468200
Au	4.03280400	-1.73201700	-0.24895500	Au	-3.91256300	-0.43881800	0.12660800
Si	2.48951000	1.94987100	-1.18293100	Si	-1.72548600	1.48640800	1.75137400
Si	-0.95168900	0.14056900	-2.20621800	Si	2.11839900	1.27260600	1.52149000
Si	-1.02704400	3.86880900	-0.85497000	Si	0.10530100	3.24217700	-1.37502800
Si	3.12495900	3.55759800	0.57419700	Si	-3.73844300	2.02638600	0.59265200
Si	-3.33529300	0.30738400	-2.18806800	Si	3.83871000	1.72291800	-0.10628100
Si	0.05544400	-0.86990300	-0.33213300	Si	1.52871300	-0.90343600	2.48277600
Si	-2.75977300	-1.36561300	2.38407500	Si	-2.90116600	-2.42643300	-1.29905500
Si	-0.94982200	-2.33215400	1.19311400	Si	-2.01028700	-2.50425500	0.88422400
Si	-3.37118600	0.91673400	1.21723300	Si	-2.69696600	0.11661000	-2.11475300



		17A					17B		
		X	Y	Z	Si	X	Y	Z	
Si	-1.64130000	-2.20880000	-1.95590000	Si	2.55360000	-1.48880000	2.29300000		
Si	0.29730000	-0.68350000	-2.33030000	Si	0.02410000	-1.51650000	2.04750000		
Si	-0.39050000	2.70050000	-0.25390000	Si	-1.62120000	2.55010000	-0.13410000		
Si	-0.51020000	-2.83040000	0.04470000	Si	2.68920000	-2.17520000	-0.05230000		
Si	1.83370000	-2.42410000	-0.29210000	Si	0.40790000	-2.57290000	-0.67990000		
Si	0.54810000	-1.09860000	2.00570000	Si	1.16800000	-1.10880000	-2.35120000		
Si	0.07400000	1.18290000	1.96480000	Si	-0.18230000	0.83060000	-2.24300000		
Si	-1.27430000	-2.69630000	2.39190000	Si	3.63070000	-1.07980000	-2.05510000		
Si	-2.28000000	1.33520000	1.72290000	Si	1.31650000	2.33320000	-1.21860000		
Si	-2.88160000	-0.97640000	1.47970000	Si	3.26330000	1.03070000	-0.76660000		
Si	-2.78460000	3.22600000	0.29000000	Si	0.30340000	3.99450000	0.21660000		
Si	-2.87690000	1.34020000	-1.22920000	Si	0.93490000	2.16400000	1.66570000		
Si	-0.73740000	1.47010000	-2.27460000	Si	-0.81690000	0.65070000	2.10840000		
Si	-3.56900000	-0.95910000	-0.86500000	Si	2.99680000	0.92470000	1.62630000		
Si	1.61140000	2.75530000	1.02430000	Si	-2.49830000	1.22410000	-1.87750000		
Si	2.64640000	-1.09560000	-2.03360000	Si	-1.54380000	-2.83090000	0.70480000		
Au	-0.99130000	-0.23910000	-0.14350000	Au	0.97340000	-0.02270000	0.10330000		
Au	2.59210000	0.65550000	-0.06940000	Au	-2.68410000	-0.72850000	-0.21350000		
Si	2.90190000	-1.38680000	1.51200000	Si	-2.97290000	1.30950000	1.33770000		
		17C					17D		
		X	Y	Z	Si	X	Y	Z	
Si	-0.81320000	-0.70080000	-1.12180000	Si	2.62900000	1.35270000	1.57370000		
Si	-1.56980000	1.74490000	-1.05170000	Si	1.21770000	3.37910000	0.81850000		
Si	2.18740000	-0.99230000	0.05310000	Si	-0.82200000	0.65120000	1.49850000		
Si	1.38600000	-0.73230000	-2.14940000	Si	0.67050000	2.05060000	2.73810000		
Si	1.92590000	1.41830000	-1.16180000	Si	-2.07160000	2.43830000	-0.57640000		
Si	0.30100000	2.37440000	0.83510000	Si	0.53720000	2.36990000	-1.66460000		

Si	-0.69260000	-0.79220000	1.38150000	Si	2.31700000	-0.27100000	-0.13480000
Au	4.61560000	-0.68500000	-0.08170000	Au	-3.35490000	-0.83280000	-0.17960000
Au	-3.70540000	-0.47040000	0.09520000	Au	3.90370000	-1.97540000	-0.28470000
Si	-1.77430000	1.69410000	1.67820000	Si	2.73360000	1.82430000	-1.15250000
Si	2.16770000	1.21660000	1.57320000	Si	-0.88680000	0.52910000	-1.97930000
Si	0.29030000	3.25560000	-1.33380000	Si	-0.47880000	4.25840000	-0.77080000
Si	-3.61250000	2.07600000	0.19690000	Si	3.63680000	3.31910000	0.57430000
Si	3.99110000	1.70940000	0.05190000	Si	-3.22670000	0.93360000	-2.00140000
Si	1.53810000	-1.02160000	2.33180000	Si	0.00000000	-0.78160000	-0.22460000
Si	-2.70550000	-2.13880000	-1.89130000	Si	-3.15430000	1.34770000	1.20050000
Si	-2.02270000	-2.54180000	0.39700000	Si	-1.31550000	-2.82920000	-0.36800000
Si	-2.92980000	0.24990000	-2.36650000	Si	-1.82180000	-1.47780000	1.92220000
Si	-2.80320000	-0.30030000	2.50160000	Si	-3.06100000	-3.24830000	1.16610000

Au ₂ Si ₁₈ ⁻							
	18A				18B		
	X	Y	Z	Si	X	Y	Z
Si	0.51250000	-0.56700000	1.67530000	Si	-1.01610000	0.36390000	-2.23090000
Si	0.13090000	1.68390000	1.12700000	Si	-3.35670000	0.36560000	-2.57480000
Si	0.04830000	1.81360000	-1.61260000	Si	-3.60360000	-1.28390000	-0.87610000
Si	1.52160000	0.18160000	-2.64530000	Si	-2.42220000	-3.06710000	0.17480000
Si	1.01210000	-1.59100000	-1.07480000	Si	1.25010000	-1.04090000	2.42880000
Si	-1.39000000	-1.62230000	2.80680000	Si	-0.21050000	2.28070000	-1.13220000
Si	-2.82240000	0.28210000	2.25820000	Si	-3.34140000	1.41670000	-0.43740000
Si	-1.98650000	2.49470000	2.05550000	Si	-4.54170000	-0.09420000	0.93050000
Si	-3.22510000	1.81910000	0.15770000	Si	-2.48180000	-1.10570000	1.54850000
Si	-2.33070000	1.56440000	-2.07140000	Si	-0.90340000	-0.04380000	2.99870000
Si	-1.07520000	-2.74160000	-1.55490000	Si	1.61470000	2.11240000	1.22720000
Si	-4.98160000	0.47920000	1.16900000	Si	-2.00210000	3.33920000	0.17720000
Si	-2.76510000	-0.91540000	-2.37120000	Si	-0.72110000	2.02690000	1.72370000
Si	-2.08880000	-2.41090000	0.61800000	Si	-0.23350000	-2.49490000	-0.63120000
Si	2.74700000	1.28310000	-0.98730000	Si	2.18780000	2.32980000	-1.04510000
Si	-3.86020000	-1.08280000	-0.21070000	Si	0.75990000	-1.20400000	-2.35370000
Si	2.34340000	-1.86600000	0.90410000	Si	3.09440000	0.33510000	1.79720000
Si	1.49450000	3.14290000	-0.15760000	Si	1.82400000	-2.41450000	0.56690000
Au	4.01760000	-0.13570000	0.45530000	Au	2.61480000	-0.26140000	-0.70860000
Au	-1.05540000	-0.20940000	-0.47050000	Au	-0.11550000	-0.06130000	0.30240000
	18C				18D		
	X	Y	Z	Si	X	Y	Z
Si	0.04900000	-2.32970000	-1.03310000	Si	1.99650000	-1.95410000	1.52070000
Si	-2.43370000	-0.86600000	2.44710000	Si	-0.11770000	-1.15120000	2.13090000
Si	1.04610000	1.30710000	2.21240000	Si	-0.61820000	3.10520000	-0.00080000
Si	2.01870000	2.48600000	-0.62310000	Si	1.75100000	-3.86910000	0.00040000
Si	1.76300000	0.84280000	-2.37880000	Si	-0.61960000	-3.10430000	-0.00040000

Si	-2.60720000	0.31720000	-1.98810000	Si	-0.11750000	-1.15230000	-2.13000000
Si	-2.29910000	-2.08500000	-1.65250000	Si	-0.11780000	1.15150000	-2.13020000
Si	-3.51650000	-1.27250000	0.29310000	Si	1.99770000	-1.95400000	-1.52090000
Si	-2.87660000	1.22970000	1.33400000	Si	1.99700000	1.95350000	-1.52000000
Si	-0.73290000	2.23530000	0.89560000	Si	3.50340000	-0.00010000	-1.23890000
Si	-0.49190000	1.51470000	-1.84320000	Si	1.75310000	3.86890000	-0.00020000
Si	-4.52200000	0.82060000	-0.47580000	Si	1.99790000	1.95330000	1.52120000
Si	-0.12180000	3.67680000	-0.88120000	Si	-0.11690000	1.15200000	2.13030000
Si	2.13250000	-1.62670000	-1.99060000	Si	3.50230000	-0.00100000	1.23830000
Si	0.15850000	-0.96860000	2.28060000	Si	-2.16500000	2.18790000	-1.52650000
Si	3.25440000	1.71130000	1.31480000	Si	-2.16500000	-2.18610000	1.52590000
Si	1.41490000	-2.62950000	0.90580000	Au	1.06010000	-0.00030000	-0.00020000
Si	3.59200000	-1.99390000	-0.01780000	Au	-2.50120000	0.00020000	0.00030000
Au	1.80370000	-0.11200000	0.13500000	Si	-2.16400000	2.18760000	1.52560000
Au	-1.06420000	-0.30790000	0.07780000	Si	-2.16550000	-2.18700000	-1.52640000

Au ₂ Si ₁₉ ⁻							
	19A				19B		
	X	Y	Z	Si	X	Y	Z
Si	-0.31790000	-1.34830000	2.46300000	Si	-0.63040000	-2.06020000	0.33820000
Si	2.01610000	-0.88500000	2.23030000	Si	-0.64750000	-0.04020000	-2.05820000
Si	3.07570000	-0.40790000	-1.93780000	Si	-0.02520000	2.50460000	-0.39560000
Si	-1.09580000	0.79890000	2.00750000	Si	-1.53240000	2.82400000	1.40220000
Si	0.78040000	2.09330000	1.47650000	Si	-0.68080000	0.65610000	1.92670000
Si	0.02440000	3.97340000	0.10980000	Si	1.52780000	-3.09510000	0.60730000
Si	1.06120000	2.27710000	-1.18630000	Si	2.72380000	-1.86610000	-1.18910000
Si	-2.00600000	2.66730000	-0.25590000	Si	1.63890000	-0.56350000	-2.84150000
Si	-0.40400000	0.70800000	-2.09280000	Si	3.14720000	0.81550000	-1.64470000
Si	-2.73330000	1.13950000	-1.89460000	Si	2.39670000	2.80850000	-0.38320000
Si	0.88350000	-1.26370000	-2.50560000	Si	1.30740000	0.53630000	3.38870000
Si	0.64840000	-2.83770000	-0.65700000	Si	4.91630000	-0.80180000	-1.15570000
Si	2.71400000	-2.13280000	0.42680000	Si	2.67120000	1.47750000	1.59030000
Si	-1.37360000	-2.42480000	0.58850000	Si	2.22050000	-1.30210000	2.05010000
Si	3.41480000	1.88490000	-1.59840000	Si	-2.79030000	1.80020000	-0.39640000
Si	2.94230000	1.33850000	2.47860000	Si	4.08530000	-0.30650000	1.04850000
Si	4.76510000	-1.45990000	-0.58160000	Si	-2.18670000	-1.25310000	1.92100000
Si	3.84880000	0.60230000	0.34080000	Si	-1.40240000	2.17350000	-2.30260000
Au	-3.04640000	-0.74910000	-0.21300000	Au	-3.58700000	-0.47020000	-0.02620000
Au	0.39130000	-0.32640000	0.10220000	Au	0.99400000	0.04080000	-0.04620000
Si	-3.26160000	1.34570000	1.21360000	Si	-2.10790000	-1.88450000	-1.49730000
	19C				19D		
	X	Y	Z	Si	X	Y	Z
Si	-2.78850000	1.01120000	1.53340000	Si	-0.55050000	-0.14360000	2.12270000
Si	-0.52840000	1.06440000	2.11910000	Si	1.57150000	-1.20000000	2.28130000
Si	1.56440000	-2.91480000	-0.00040000	Si	1.82620000	-1.45000000	-2.50490000
Si	-3.56750000	2.78100000	0.00090000	Si	-0.37610000	2.17630000	2.58220000

Si	-1.3360000	3.8502000	0.0000000	Si	1.6587000	2.3146000	1.3646000
Si	-0.5312000	1.0640000	-2.1198000	Si	1.2072000	4.1658000	-0.0816000
Si	0.4580000	-1.0140000	-2.0830000	Si	1.3565000	2.2823000	-1.5051000
Si	-2.7906000	1.0101000	-1.5316000	Si	-0.9166000	2.9323000	0.4115000
Si	-1.2469000	-2.5357000	-1.5529000	Si	-0.7492000	1.3199000	-1.8378000
Si	-3.3476000	-1.3467000	-1.2316000	Si	-2.7097000	2.2251000	-0.9450000
Si	-0.4540000	-4.2492000	0.0002000	Si	-0.4926000	-1.0158000	-1.9736000
Si	-1.2462000	-2.5355000	1.5536000	Si	-0.5734000	-2.5119000	0.5023000
Si	0.4594000	-1.0143000	2.0832000	Si	1.6302000	-3.3870000	1.1780000
Si	-3.3455000	-1.3451000	1.2320000	Si	-2.3817000	-1.6569000	1.8313000
Si	2.7256000	-1.5985000	-1.5677000	Si	2.9384000	0.5013000	-1.7496000
Si	0.4417000	3.0059000	1.2319000	Si	3.1278000	0.4211000	1.4425000
Au	-1.0423000	-0.3566000	0.0001000	Si	2.9082000	-2.0960000	-0.4838000
Au	2.7982000	0.4284000	0.0000000	Si	4.7103000	-0.4026000	-0.2788000
Si	2.7265000	-1.5992000	1.5665000	Au	-3.1021000	-0.1892000	-0.1300000
Si	0.4403000	3.0049000	-1.2328000	Au	0.9850000	-0.1697000	-0.0746000
Si	2.4584000	2.9563000	-0.0016000	Si	-2.2386000	-2.4493000	-1.2016000

Au ₂ Si ₂₀ ⁻							
20A			20B				
	X	Y	Z		X	Y	Z
Si	-0.06220000	-4.04960000	0.00000000	Si	3.69890000	1.39470000	0.85120000
Si	-1.13410000	-2.41980000	-1.36700000	Si	1.62160000	1.46570000	2.09270000
Si	2.05960000	-2.56890000	0.00000000	Si	-3.61620000	2.60320000	-0.47260000
Si	-1.13410000	-2.41980000	1.36700000	Si	3.73490000	-1.71440000	0.32040000
Si	-3.28270000	-1.26830000	-1.26590000	Si	1.64320000	-2.39740000	1.39280000
Si	0.51850000	-1.05010000	-2.35520000	Si	0.25240000	-2.76320000	-0.51090000
Si	2.83690000	-1.28510000	-1.98630000	Si	-2.27220000	-1.09650000	-2.17870000
Si	2.83690000	-1.28510000	1.98630000	Si	2.31240000	-2.00180000	-1.69080000
Si	0.51850000	-1.05010000	2.35520000	Si	-0.42350000	0.42510000	-2.11790000
Si	-3.28270000	-1.26830000	1.26590000	Si	1.90690000	0.38220000	-2.60680000
Si	-2.83690000	1.28510000	-1.98630000	Si	-1.30970000	2.40900000	-1.17190000
Si	-0.51850000	1.05010000	-2.35520000	Si	0.50940000	3.97060000	-0.87870000
Si	3.28270000	1.26830000	-1.26590000	Si	-0.03640000	2.83820000	1.08010000
Si	3.28270000	1.26830000	1.26590000	Si	2.27750000	2.21650000	-0.95780000
Si	-0.51850000	1.05010000	2.35520000	Si	-3.63050000	0.16340000	-0.69440000
Si	-2.83690000	1.28510000	1.98630000	Si	0.38540000	-0.56850000	2.43950000
Si	-2.05960000	2.56890000	0.00000000	Si	-2.16380000	1.91870000	1.33610000
Si	1.13410000	2.41980000	-1.36700000	Si	-2.14490000	-3.14530000	-0.82480000
Si	1.13410000	2.41980000	1.36700000	Si	-2.08490000	-0.20110000	2.58940000
Si	0.06220000	4.04960000	0.00000000	Au	1.61510000	-0.11820000	-0.00050000
Au	-1.39070000	0.05470000	0.00000000	Au	-1.13030000	-0.64130000	0.19040000
Au	1.39070000	-0.05470000	0.00000000	Si	-3.39620000	-1.61350000	0.93120000
20C			20D				
	X	Y	Z		X	Y	Z
Si	-2.11660000	1.82030000	2.13900000	Si	3.25280000	2.02890000	0.00000000
Si	-3.49120000	1.40230000	-0.04930000	Si	1.41450000	2.06270000	1.49910000
Si	-2.14720000	1.84980000	-2.03490000	Si	-3.59200000	1.27690000	0.00000000

Si	-2.56740000	-0.53060000	-1.94840000	Si	4.00970000	-0.39680000	0.00000000
Si	-2.95180000	-1.83350000	0.71020000	Si	2.74370000	-1.64650000	1.73330000
Si	-1.78600000	-0.55970000	2.29580000	Si	1.78180000	-3.15860000	0.00000000
Si	0.29950000	2.07310000	1.54440000	Si	-2.24140000	-2.15350000	-1.65140000
Si	0.26870000	2.10090000	-1.45200000	Si	2.74370000	-1.64650000	-1.73330000
Si	-0.68460000	-1.99460000	-1.24540000	Si	-1.21500000	-0.19160000	-2.64670000
Si	-1.30270000	-3.63670000	0.37960000	Si	1.19120000	0.00850000	-2.63850000
Si	0.05530000	-2.02800000	1.66560000	Si	-1.89350000	1.81610000	-1.57320000
Si	2.17660000	0.78130000	2.38960000	Si	-0.34680000	3.62730000	-1.26840000
Si	2.90690000	1.92190000	0.44240000	Si	-0.34680000	3.62730000	1.26840000
Si	1.75260000	0.51160000	-2.49610000	Si	1.41450000	2.06270000	-1.49910000
Si	1.45450000	-1.88650000	-2.32350000	Si	-3.99110000	-1.37480000	0.00000000
Si	3.34280000	-2.06330000	-0.48430000	Si	1.19120000	0.00850000	2.63850000
Si	2.40670000	-1.73420000	2.06770000	Si	-1.89350000	1.81610000	1.57320000
Si	-4.62920000	-0.77960000	-0.67400000	Si	-0.58610000	-2.78270000	0.00000000
Si	3.72310000	0.35150000	-1.17450000	Si	-1.21500000	-0.19160000	2.64670000
Si	1.28260000	3.73450000	0.04390000	Au	1.36490000	-0.20200000	0.00000000
Au	1.46450000	-0.39620000	-0.00070000	Au	-1.39650000	-0.26530000	0.00000000
Au	-1.10880000	0.48470000	0.03690000	Si	-2.24140000	-2.15350000	1.65140000

Table S2. Cartesian coordinates for the stable isomers of Au₂Si₈₋₂₀ clusters.

		Au ₂ Si ₈					
		8A'			8B'		
	X	Y	Z	Si	X	Y	Z
Si	-1.49710000	1.05750000	1.42800000	Si	0.77930000	2.56700000	0.38110000
Si	-2.55740000	2.44970000	-0.22820000	Si	-0.36680000	1.75600000	-1.50990000
Si	-1.43520000	0.65100000	-1.47980000	Si	3.24800000	2.32590000	-0.07260000
Si	0.06790000	-0.27260000	-2.96830000	Si	1.99300000	0.78100000	-1.36590000
Si	0.48350000	-1.64460000	-1.07180000	Si	3.15100000	0.01150000	0.80130000
Si	0.82360000	1.64170000	1.72760000	Si	2.31340000	-1.52210000	-0.85180000
Si	-0.19390000	2.64350000	-0.11180000	Si	0.91200000	0.01450000	1.35250000
Au	1.93500000	-0.20340000	0.36590000	Au	0.00120000	-1.83250000	0.07170000
Au	-1.40470000	-1.17600000	0.39930000	Au	-1.98120000	0.50540000	-0.16650000
Si	1.31610000	1.25820000	-1.61380000	Si	-0.85720000	1.55500000	1.80030000
	X	8C' Y	Z	Si	X	8D' Y	Z
Si	1.75470000	2.20780000	0.00070000	Si	-0.38440000	-2.84080000	-0.39260000
Si	1.75470000	2.20780000	0.00070000	Si	0.72590000	2.19390000	0.23820000
Si	1.75470000	2.20780000	0.00070000	Si	-1.71510000	1.69910000	0.86590000
Si	1.75470000	2.20780000	0.00070000	Si	-1.34000000	-1.76000000	1.38880000
Si	1.75470000	2.20780000	0.00070000	Si	0.18710000	-0.56720000	2.67570000
Si	1.75470000	2.20780000	0.00070000	Si	-0.04920000	1.88070000	2.50520000
Si	1.75470000	2.20780000	0.00070000	Si	1.29250000	-1.82150000	0.96270000
Si	1.75470000	2.20780000	0.00070000	Au	-1.32150000	-0.29040000	-0.70280000
Si	1.75470000	2.20780000	0.00070000	Au	1.74570000	0.08860000	-0.53300000
Si	1.75470000	2.20780000	0.00070000	Si	-1.11040000	2.35440000	-1.27010000

Au₂Si₉

		9A'			9B'		
	X	Y	Z		X	Y	Z
Si	2.45860000	1.92600000	-1.79720000	Si	1.06770000	0.48750000	-1.75930000
Si	-0.68340000	-0.63300000	-1.21510000	Si	1.51760000	2.71580000	-0.98480000
Si	0.06720000	1.61480000	-1.46270000	Si	1.80130000	1.36780000	1.03540000
Si	-0.61500000	3.25680000	0.09070000	Si	-0.26110000	1.25210000	2.41340000
Si	1.72910000	2.61950000	0.32240000	Si	0.06030000	-0.94880000	1.58290000
Si	2.81380000	0.21220000	-0.09330000	Si	-1.23860000	0.06620000	-2.13170000
Si	2.51610000	1.08490000	2.02480000	Si	-1.07030000	2.29490000	-1.34700000
Si	0.69740000	-0.56440000	1.99100000	Au	-1.80360000	-1.03900000	-0.00670000
Si	-0.72540000	1.04520000	0.93320000	Au	1.87710000	-1.05930000	-0.04630000
Au	-2.74060000	-0.15490000	0.05930000	Si	-2.13290000	1.42240000	0.69910000
Au	1.27710000	-1.71690000	-0.20000000	Si	-0.15860000	3.18230000	0.79120000
		9C'			9D'		
	X	Y	Z		X	Y	Z
Au	1.95330000	-0.08930000	-0.33000000	Si	-0.59030000	-1.17760000	1.40840000
Au	-0.99520000	-1.26940000	0.38030000	Si	0.71360000	-0.30720000	-2.32230000
Si	-0.82440000	0.69930000	1.97940000	Si	-0.95370000	1.12770000	-1.45990000
Si	0.97520000	-0.92580000	1.97590000	Si	0.31600000	0.58380000	2.73140000
Si	1.42290000	1.58210000	1.56670000	Si	0.65400000	2.32510000	1.14470000
Si	-0.39370000	2.53680000	0.28590000	Si	1.49450000	1.68140000	-1.32900000
Si	0.21200000	-0.04340000	-2.03080000	Si	2.08870000	0.07990000	1.30930000
Si	-0.47990000	2.23550000	-2.09300000	Au	-2.34070000	-0.11650000	0.08170000
Si	-2.07930000	0.84920000	-1.04090000	Au	1.20300000	-1.62880000	-0.26810000
Si	-1.69450000	-1.41360000	-2.04020000	Si	-0.24540000	3.31040000	-0.91010000
Si	-2.54520000	2.14680000	1.11330000	Si	2.94220000	2.22500000	0.47970000

Au₂Si₁₀

10A'			10B'				
X	Y	Z	X	Y	Z		
Si	1.54670000	1.93790000	-0.47020000	Si	2.33380000	1.00430000	-1.33270000
Si	-0.32070000	2.14890000	-1.87910000	Si	-0.73370000	-0.27460000	-0.00110000
Si	3.73250000	1.73830000	0.37070000	Si	-0.20520000	1.83520000	-1.36550000
Si	0.68570000	0.02340000	-2.01450000	Si	-0.33450000	3.80110000	0.00110000
Si	2.70470000	-0.33760000	-0.28260000	Si	1.89120000	2.89880000	0.00110000
Si	1.74760000	-2.02920000	-1.70760000	Si	3.61550000	-0.51560000	-0.00100000
Si	1.14820000	-1.12370000	1.75530000	Si	2.33430000	1.00310000	1.33300000
Au	-0.39200000	-1.57350000	-0.26770000	Si	0.40100000	-0.22970000	2.31350000
Au	-1.67060000	1.03650000	-0.09400000	Si	-0.20610000	1.83380000	1.36580000
Si	-0.42240000	0.94920000	2.02600000	Au	-3.05990000	-0.36060000	0.00000000
Si	1.94270000	1.08050000	1.95860000	Au	1.37690000	-1.61160000	0.00010000
Si	-1.12600000	-1.35780000	2.28460000	Si	0.40050000	-0.22760000	-2.31490000
10C'			10D'				
X	Y	Z	X	Y	Z		
Si	-1.04640000	0.39660000	-2.77040000	Si	2.03660000	1.45650000	-1.38370000
Si	-1.20170000	2.12850000	-1.04340000	Si	-0.36310000	-0.91500000	-0.01550000
Si	0.91940000	0.95430000	-1.68790000	Si	-0.16390000	0.75390000	-1.79520000
Si	0.84350000	2.98720000	-0.32580000	Si	-1.60970000	2.61800000	-1.61040000
Si	-0.25410000	1.76300000	1.66110000	Si	0.57380000	3.12600000	-0.69830000
Si	-2.45580000	2.45850000	1.15810000	Si	3.50490000	0.39580000	0.16970000
Si	-2.40280000	0.13490000	1.15890000	Si	1.74400000	1.61650000	1.22920000
Si	-0.22500000	-0.96070000	1.91710000	Si	-0.11750000	0.38090000	2.20770000
Si	-2.16350000	-2.16250000	1.47140000	Si	-1.39930000	1.36390000	0.47800000
Au	-0.94020000	-1.03820000	-0.68560000	Au	-2.79320000	-0.91440000	0.03990000
Au	2.07340000	-0.39990000	-0.00240000	Au	2.02270000	-1.56590000	-0.09650000
Si	1.59170000	0.41530000	2.34330000	Si	0.14180000	3.19930000	1.73780000

Au₂Si₁₁

		11A'			11B'		
	X	Y	Z		X	Y	Z
Si	1.24829700	-1.52143800	-1.46670800	Si	-3.29265600	0.61525000	-1.73891500
Si	-0.29422200	-2.99559600	-0.13091000	Si	-4.55996600	1.63592300	0.05777900
Si	0.01514800	0.65534800	-1.39314000	Si	-0.85628500	0.94073900	-1.69711000
Si	-1.19398000	-1.50975500	-1.93225600	Si	-2.12183800	2.41126200	-0.22552700
Si	-1.86032500	-0.18854000	0.08361100	Si	-0.67783200	0.78355400	0.94443400
Si	-0.39099000	-1.37777700	2.01527400	Si	-4.05004600	-0.72153500	0.46822200
Si	1.74413900	0.14282100	0.40088500	Si	-0.91002900	-1.15359400	-0.43621500
Au	-3.75782100	1.15618000	-0.09335400	Au	2.65877600	1.45785300	-0.13318900
Au	3.68981100	1.34671400	-0.02117900	Au	1.37088900	-1.92231100	-0.07986400
Si	1.71115900	-2.10182300	1.12455200	Si	-3.02080800	-1.74573300	-1.41607400
Si	-0.19550400	1.00993800	1.50596100	Si	-2.03565100	-1.25500100	1.76748100
Si	-2.30927800	-2.42856400	1.00886700	Si	-2.88215200	1.03625900	2.00438800
Si	1.90933000	-3.80808500	-0.56983800	Si	1.66843800	0.07375000	1.47376500
		11C'			11D'		
	X	Y	Z		X	Y	Z
Si	0.00650600	-0.17892800	1.97330200	Si	0.35494400	-0.29455400	1.47251900
Si	-0.64110600	1.05856700	-0.83279400	Si	0.03484600	2.31003300	1.20361400
Si	0.56993000	1.92850700	0.99005100	Si	-0.34526400	-1.43646400	-0.64341800
Si	2.18935000	-1.22716500	2.11107000	Si	-1.53500700	0.92717000	2.31107500
Si	3.22684700	0.71110700	1.22408200	Si	-2.17283900	-0.02060700	0.14196800
Si	2.28123000	1.41486900	-1.26339100	Si	0.12665500	2.80531700	-1.22259400
Si	2.57676400	-1.33132100	-0.32885600	Si	1.10670600	0.43408600	-1.01190300
Au	-2.91496300	0.61602700	-0.04659200	Au	-4.30767200	-0.90806300	-0.07226500
Au	0.09036900	-1.38292300	-0.35528600	Au	4.31886600	-0.91303300	0.02895000
Si	2.59286400	2.98372400	0.54499900	Si	2.12276100	1.21333500	1.13114700
Si	4.33715500	0.17275400	-0.84030400	Si	-1.13681400	0.81000300	-1.99557400
Si	0.75952700	0.06126100	-2.52808200	Si	-2.09117500	2.45440000	-0.21185200

Si -1.96028800 -1.26588900 1.21766200 Si 3.47202000 1.07346500 -0.93055800

Au₂Si₁₂

		12A'			12B'		
	X	Y	Z		X	Y	Z
Si	-1.23500000	-2.55680600	-1.68567900	Si	-1.71431300	1.25651700	-1.66943900
Si	1.19410800	2.03806000	-0.93860200	Si	-1.15434900	3.36248600	-0.52369600
Si	2.94861500	2.10435900	0.67532900	Si	0.77088200	-0.04065400	-1.03507500
Si	1.32773100	-2.14978000	1.74054400	Si	0.57037600	2.19797700	-2.00506800
Si	-0.80210700	-2.19595600	0.71602800	Si	1.63128600	1.92251400	0.38237800
Si	-0.84218400	2.57139700	0.11947500	Si	-0.48718700	2.38824000	1.89010400
Si	0.76415500	1.69860900	1.56409400	Si	-1.30395700	-0.32707300	0.27021600
Si	-0.12977700	-0.41122600	2.38299500	Au	2.89670700	-1.12141800	-0.38903500
Si	-2.39481800	-0.97514200	1.99837400	Au	-2.27132200	-2.43123100	0.14676500
Si	-1.17252500	-0.16511000	-2.11037100	Si	-2.52945900	1.66348600	0.85466300
Si	0.90326100	-1.60081300	-1.76439000	Si	0.46111500	0.21438500	1.83331900
Si	0.93912200	0.51324300	-2.88556200	Si	0.71905200	4.13557300	0.80416900
Au	2.02776300	-0.36350000	0.06443500	Si	-3.42717400	2.96894100	-1.01276700
Au	-2.29368900	0.56360600	-0.03116000	Si	2.93476900	0.30469900	1.57828800
		12C'			12D'		
	X	Y	Z		X	Y	Z
Si	-1.70524800	1.93360700	-1.40060000	Si	-1.12901000	-3.30880000	-0.94695600
Si	0.05358000	3.14084500	-0.20637000	Si	-1.46730300	-1.76512500	0.95714900
Si	0.13471900	-0.76841200	-1.38621700	Si	-1.04573600	2.01537900	1.55545600
Si	0.58501600	1.57529200	-2.23162700	Si	-1.22151700	0.89908600	-1.87188500
Si	1.77121500	0.61682900	-0.19649100	Si	0.51260600	2.40084700	-2.40989500
Si	0.53567100	1.56770600	1.89837000	Si	0.83088500	-2.48572000	0.14476200
Si	-1.73171600	-0.07671800	0.11370800	Si	0.79166600	0.65953800	2.12824600
Au	3.62123300	-0.97099200	-0.01983600	Si	0.75406400	2.30396600	0.07861300
Au	-3.58770000	-1.47098600	0.04607200	Si	-0.58929700	-1.30316100	-2.21506500
Si	-1.74381800	2.05663500	1.29328300	Si	1.23115000	0.08128400	-2.30067300
Si	0.21428300	-0.76131900	1.35304100	Si	2.70943300	1.82061800	1.35171000

Si	2.25923700	2.77130900	0.75115700	Au	2.10613300	-0.33551300	-0.04563100
Si	-2.13524800	4.02235700	-0.12505400	Au	-2.41843900	0.41587800	0.25317700
Si	1.57308600	-2.29839600	-0.01124800	Si	0.38536000	-1.77139800	2.35738200

Au₂Si₁₃

		13A'			13B'		
	X	Y	Z		X	Y	Z
Si	-0.97281500	0.95298600	-1.13509800	Si	0.51033900	2.94872700	-1.47316300
Si	-0.50805500	2.68531400	0.74981600	Si	-0.96215100	2.62618400	0.82239400
Si	0.03471900	-1.26234300	-0.55763800	Si	0.81537900	0.20911600	-2.20087600
Si	0.52948600	2.83685400	-1.49784100	Si	1.38856000	3.29168300	0.88928100
Si	1.47442300	0.46198000	-1.56922100	Si	2.36061200	1.55849200	-0.71406500
Si	1.02140100	1.56257700	2.35842100	Si	-1.05463200	0.35969600	1.43031500
Si	-0.81159700	0.18160300	1.29912700	Si	-1.12387200	0.90155100	-0.95810800
Au	3.96425200	-1.13683700	0.10887000	Au	3.80163500	-1.49892900	-0.27106900
Au	-3.83133300	-1.14246800	-0.22062000	Au	-4.63440500	-1.20027800	-0.06426900
Si	-2.77155900	1.88769900	0.70156400	Si	-2.89105200	2.60993700	-0.73200300
Si	1.79007100	-0.31111800	0.90027200	Si	1.47547200	-0.74350200	-0.04005400
Si	2.24525900	2.12562100	0.17044500	Si	2.19136700	1.05075200	1.68146300
Si	-3.20414200	-0.10184500	1.93564300	Si	-3.15228600	0.51090900	0.41888600
Si	3.84153200	0.88469000	-1.28374100	Si	4.32721700	0.79312300	0.47793800
Si	-3.41876400	0.95777700	-1.44116100	Si	0.81424700	-0.88542800	2.29025300
		13C'			13D'		
	X	Y	Z		X	Y	Z
Si	-0.82191300	0.41474100	-2.85484700	Si	0.82842100	2.69408800	1.17219600
Si	-2.95563000	1.56995900	1.25357700	Si	-1.53837900	3.17160200	0.51622800
Si	-1.14571400	0.29516600	2.17044700	Si	0.40620000	0.01354700	0.90379400
Si	-1.74409800	-2.08304600	1.69882800	Si	-1.00750500	1.51276500	2.31341800
Si	-0.92134000	-2.30859700	-0.58676100	Si	-2.00233900	0.22803100	0.28634200
Si	0.94864600	-0.90517100	-2.11164800	Si	-1.52604400	1.85913700	-1.82031900
Si	0.50292800	1.94569100	-1.49682500	Si	1.86171700	1.36879900	-0.69078800
Si	-0.95770700	2.43067500	0.36436600	Au	-2.29967800	-2.15749800	0.02942300
Si	1.24353200	2.11307700	1.24141600	Au	3.09929700	-0.80196200	-0.09181300
Si	1.16810700	0.22972300	2.80223800	Si	0.33369900	3.24222900	-1.28651200

Si	1.40138200	-2.89935600	-0.74043300	Si	-0.02222000	0.03578800	-1.50925400
Si	2.73536000	2.18860400	-0.65225300	Si	-3.46319600	2.05030200	-0.42100500
Si	0.64627200	-1.99847200	1.52028500	Si	0.06442700	4.96549200	0.39564600
Au	1.80787700	-0.17429200	0.07965000	Si	0.05401900	-2.28211100	-0.71281600
Au	-1.82556800	-0.00168200	-0.54189600	Si	1.49906300	-2.15986000	1.20512600

Au₂Si₁₄

	14A'				14B'		
	X	Y	Z		X	Y	Z
Si	2.12610000	0.69090000	-1.96600000	Si	-1.79950000	-1.58390000	2.09660000
Si	0.13110000	0.63250000	0.92200000	Si	-3.41400000	0.32950000	1.67550000
Si	-1.05740000	2.28170000	-0.92610000	Si	-2.34410000	2.60760000	1.22140000
Si	0.26490000	4.34670000	-0.81940000	Si	-2.37630000	-2.50360000	-0.10960000
Si	2.10660000	2.89270000	-1.21180000	Si	-3.93780000	-0.71500000	-0.45580000
Si	3.78180000	-0.45230000	-0.77120000	Si	-2.64860000	0.33880000	-2.28670000
Si	3.10660000	1.47800000	0.33460000	Si	-1.66020000	2.39720000	-1.22210000
Si	1.77510000	1.55840000	2.34390000	Si	-1.18590000	-1.74690000	-2.12260000
Si	0.33260000	3.21650000	1.30970000	Si	0.62840000	1.79440000	-0.71600000
Au	-3.35030000	-0.59430000	-0.20190000	Si	0.90850000	-1.04010000	-1.22960000
Au	2.15420000	-2.03050000	0.23290000	Si	-0.05640000	1.70450000	1.53540000
Si	-0.12910000	0.17080000	-1.49110000	Si	0.39190000	-0.61210000	1.91900000
Si	-1.87920000	2.11740000	1.29090000	Si	2.13630000	-1.80980000	0.68080000
Si	-0.25360000	-1.81840000	0.48200000	Si	2.42010000	0.67680000	-1.86140000
Si	-1.95260000	-0.54680000	1.82740000	Au	-1.39210000	-0.00740000	-0.01480000
Si	-1.60390000	-1.75680000	-1.50010000	Au	3.68480000	0.03620000	0.16990000
	14C'				14D'		
	X	Y	Z		X	Y	Z
Si	1.48490000	-2.89480000	2.03150000	Si	2.73220000	1.54790000	-1.29290000
Si	2.68490000	-1.23130000	0.77720000	Si	-0.18490000	0.40530000	0.03760000
Si	-0.02720000	2.59700000	-1.21030000	Si	-0.91460000	2.47570000	-1.49570000
Si	-0.00210000	1.34890000	1.86850000	Si	-0.19330000	4.28710000	-0.05150000
Si	-2.18770000	2.14290000	2.28630000	Si	2.05940000	3.33100000	-0.02490000
Si	0.54330000	-2.48520000	-0.12490000	Si	3.93660000	0.01440000	0.02980000
Si	-1.15820000	0.70180000	-2.17670000	Si	2.71230000	1.57810000	1.29540000
Si	-2.06990000	1.99090000	-0.16680000	Si	0.66310000	0.83640000	2.24720000
Si	-0.02660000	-0.98390000	2.25990000	Si	-0.92860000	2.52800000	1.46360000

Si	-2.24210000	-0.24350000	1.97060000	Au	-3.44740000	-0.70230000	0.00280000
Si	-3.41170000	0.48470000	-1.41940000	Au	2.12930000	-1.81610000	-0.00370000
Au	-1.54310000	-1.05230000	-0.26200000	Si	0.67350000	0.78160000	-2.18460000
Au	1.65590000	1.27000000	0.01790000	Si	-2.54730000	1.55160000	-0.00940000
Si	1.89980000	-0.83620000	-1.56260000	Si	0.35750000	-1.67850000	-1.79030000
Si	3.91030000	0.05800000	-0.73030000	Si	-1.28720000	-1.79650000	0.00130000
Si	-0.03380000	-1.87730000	-2.42550000	Si	0.35900000	-1.65100000	1.77990000

Au₂Si₁₅

		15A'			15B'		
	X	Y	Z		X	Y	Z
Si	-1.63000600	-0.36995300	2.31342800	Si	-1.81921600	1.57693300	1.33045900
Si	-1.57776300	-2.32681000	-0.62818800	Si	0.32752700	1.19282700	2.46902600
Si	0.42593500	2.07735200	-1.79231900	Si	0.42859700	-1.17122400	2.18650600
Si	0.17402600	2.56829200	0.80408400	Si	-1.10247100	-2.13016600	0.61701900
Si	0.50887100	0.78005000	2.38622800	Si	-1.90691100	0.83039600	-1.69864900
Si	2.01278900	-1.73434700	1.20609800	Si	-0.96493200	2.72607500	-0.57049600
Si	-0.32908400	-2.14961700	1.41059400	Si	1.54475400	2.90278500	-0.66980400
Si	0.60520200	-2.12935500	-1.62549100	Si	2.35555900	1.64862900	1.25198800
Si	1.06508900	-0.05491300	-2.82517700	Si	4.21725200	0.09233300	1.16017600
Si	2.08198900	3.36187600	-0.42630800	Si	2.54142100	-1.60268100	1.19369400
Si	2.87637500	0.10970700	2.65361500	Si	0.00870500	-0.33604400	-2.60483300
Si	2.78716200	1.19017500	0.44625400	Si	1.91720700	1.02123500	-2.16794500
Si	2.81681400	-0.46872500	-1.27684600	Si	0.55529000	-2.18263500	-1.14144400
Si	2.86810400	-2.81149800	-0.79620700	Si	3.29496200	-0.51413800	-0.96445700
Si	-1.66464400	2.18335900	-0.70819500	Si	2.82165300	-2.88560800	-0.79593500
Au	0.31271000	-0.00465300	-0.12449700	Au	0.32579900	0.33131000	-0.04958900
Au	-2.62020400	-0.03532500	-0.07780600	Au	-2.84569200	-0.53842400	0.12130700
		15C'			15D'		
	X	Y	Z		X	Y	Z
Si	-0.93814900	-0.62143200	-0.81997400	Si	2.35004800	1.46673500	1.54758700
Si	-2.00457100	2.02524500	-0.60911500	Si	0.76931800	3.22882100	0.56925300
Si	2.13393800	-1.05058800	-0.08939300	Si	-0.94486700	0.31378800	1.22910200
Si	1.07348600	-0.38752600	-2.07552400	Si	0.23961900	1.91243300	2.52269300

Si	1.66136300	1.55188200	-0.72573200	Si	-2.51612100	1.88510300	-0.45352200
Si	0.27440600	2.09817700	1.39694300	Si	0.21463900	2.12321300	-1.78714900
Si	-0.76557100	-1.54346200	1.50650300	Si	2.29584800	-0.29320300	-0.06479100
Au	4.51849800	-0.60643600	-0.37513500	Au	-3.74587400	-1.33042600	0.02200100
Au	-4.27890200	-0.55320000	-0.16092500	Au	4.10881900	-1.73409700	-0.17062100
Si	-1.50885700	0.62923400	1.56140800	Si	2.43076900	1.78410600	-1.22174500
Si	2.13996900	0.80154900	1.82264300	Si	-0.92960500	0.11228100	-1.53187400
Si	0.02370200	3.46356300	-0.51316600	Si	-1.10789800	3.88138500	-0.94942200
Si	-3.66362900	1.56649100	1.04629500	Si	3.19462700	3.44662100	0.41306100
Si	3.85498600	1.65802500	0.33746900	Si	-3.28970000	0.18306600	-1.94530300
Si	1.63596400	-1.58420800	2.16045100	Si	0.16904600	-1.41711300	-0.21780000
Si	-2.79676200	0.32545400	-2.06209800	Si	-3.32427900	0.74427900	1.46674800
Si	-2.47228200	-2.38874900	0.08819700	Si	-1.59949300	-2.07885300	1.26180800

Au₂Si₁₆

		16A'			16B'		
	X	Y	Z		X	Y	Z
Si	-0.58000000	-0.25630000	-1.02140000	Si	0.98570000	2.37230000	-1.97650000
Si	-1.78870000	1.89040000	-1.01810000	Si	-1.06400000	1.25990000	-2.32310000
Si	2.27640000	-0.98070000	-0.21270000	Si	-0.77770000	-1.08160000	-2.21570000
Si	1.44820000	-0.04210000	-2.22210000	Si	1.26750000	-2.11280000	-1.49150000
Si	2.02860000	1.69600000	-0.65470000	Si	2.08670000	1.82930000	1.25260000
Si	0.45030000	2.23300000	1.34000000	Si	0.15200000	2.83160000	0.19330000
Si	-0.83700000	-1.40640000	1.12340000	Si	-2.18240000	3.10890000	1.06050000
Au	4.69280000	-0.65610000	-0.20110000	Si	-2.75550000	1.44350000	-0.61640000
Au	-4.36650000	-0.29810000	0.12450000	Si	-4.41540000	-0.25140000	-0.41470000
Si	-1.44420000	0.88590000	1.29080000	Si	-2.72910000	-1.82490000	-0.99760000
Si	2.12680000	0.72440000	1.83760000	Si	0.60260000	0.42220000	2.45480000
Si	0.31020000	3.44720000	-0.73270000	Si	-1.62250000	0.95050000	1.95650000
Si	-3.48010000	1.94220000	0.68960000	Si	-0.07680000	-2.49860000	0.43380000
Si	4.06110000	1.55830000	0.66180000	Si	-2.98380000	-0.90340000	1.37410000
Si	1.49540000	-1.65020000	1.95960000	Si	-2.33700000	-3.19750000	0.88020000
Si	-3.01340000	-0.09250000	-2.02290000	Au	-0.13490000	0.20430000	-0.10260000
Si	-3.03240000	-2.32390000	0.74880000	Au	2.64880000	-0.32880000	-0.14550000
Si	-1.86210000	-2.24090000	-1.33480000	Si	1.66450000	-1.64570000	1.82960000
		16C'			16D'		
	X	Y	Z		X	Y	Z
Si	2.74090000	1.55190000	1.19350000	Si	-0.89170000	-0.16330000	-1.14140000
Si	1.13740000	3.38710000	0.22100000	Si	-1.68670000	2.17250000	-0.58860000
Si	-0.58160000	0.66230000	1.68490000	Si	2.14750000	-0.95480000	-0.34690000
Si	0.93790000	2.48330000	2.41030000	Si	1.22960000	0.18990000	-2.17440000
Si	-2.17090000	1.83140000	-0.28560000	Si	1.88930000	1.74480000	-0.43300000
Si	0.29730000	1.88180000	-1.93330000	Si	0.38390000	1.96220000	1.73080000
Si	2.42720000	-0.36110000	-0.15510000	Si	-0.75970000	-1.58690000	0.93000000

Au	-4.02290000	-1.31900000	-0.32320000	Au	4.56500000	-0.63500000	-0.39330000
Au	4.08710000	-1.97770000	-0.15680000	Au	-3.99720000	-0.52590000	-0.19780000
Si	2.56800000	1.55700000	-1.54990000	Si	-1.52050000	0.66770000	1.38470000
Si	-0.97190000	-0.05190000	-1.62810000	Si	2.14140000	0.48890000	1.92330000
Si	-0.85240000	3.74730000	-1.13640000	Si	0.30830000	3.57890000	-0.03390000
Si	3.52140000	3.35310000	-0.24990000	Si	-3.68070000	1.83170000	0.68950000
Si	-3.23160000	0.35590000	-1.91910000	Si	4.00340000	1.48380000	0.73200000
Si	0.15580000	-1.09070000	0.10720000	Si	1.54020000	-1.88730000	1.75160000
Si	-2.75280000	1.68300000	2.02610000	Si	-3.06610000	0.89550000	-2.07710000
Si	-2.83650000	-0.67660000	1.71630000	Si	-2.27450000	-2.30930000	-0.84840000
Si	-0.75070000	-1.71100000	2.20650000	Si	-2.96800000	-1.56370000	1.83710000

Au₂Si₁₇

		17A'			17B'		
	X	Y	Z		X	Y	Z
Si	2.43190000	1.63490000	1.47400000	Si	-0.81290000	-0.88670000	-1.11640000
Si	0.96080000	3.46600000	0.48590000	Si	-1.45440000	1.55640000	-1.06170000
Si	-1.07340000	0.68070000	1.61060000	Si	2.19540000	-0.98180000	0.15120000
Si	0.43810000	2.34060000	2.53310000	Si	1.41970000	-0.92650000	-2.07300000
Si	-1.90590000	1.79240000	-0.49340000	Si	1.94960000	1.31240000	-1.25820000
Si	0.47020000	2.12350000	-1.96690000	Si	0.42430000	2.55630000	0.65980000
Si	2.34750000	-0.13030000	-0.10260000	Si	-0.68810000	-0.56970000	1.36850000
Au	-3.09440000	-1.21020000	-0.04430000	Au	4.60970000	-0.72440000	-0.02430000
Au	3.85530000	-1.88890000	-0.03220000	Au	-3.74870000	-0.48160000	0.09830000
Si	2.68310000	1.84110000	-1.34290000	Si	-1.66050000	1.82610000	1.48650000
Si	-0.93880000	0.23620000	-2.26560000	Si	2.21400000	1.35480000	1.48870000
Si	-0.84280000	3.85650000	-1.10120000	Si	0.29710000	3.11620000	-1.62230000
Si	3.36530000	3.56710000	0.30510000	Si	-3.65210000	2.01830000	0.14500000
Si	-3.33220000	0.30630000	-2.02810000	Si	4.03310000	1.67660000	-0.09140000
Si	0.05390000	-0.70750000	-0.12850000	Si	1.49850000	-0.78690000	2.42130000
Si	-2.95290000	-0.73290000	2.53480000	Si	-2.87730000	-2.25440000	-1.62400000
Si	-1.01310000	-1.95510000	1.58110000	Si	-1.93850000	-2.45200000	0.65580000
Si	-3.57580000	1.22170000	1.08860000	Si	-2.83320000	0.15780000	-2.38690000
Si	-1.40950000	-2.05310000	-1.75200000	Si	-2.97310000	0.08850000	2.43940000
		17C'			17D'		
	X	Y	Z		X	Y	Z
Si	-1.58120000	-2.09440000	-1.98040000	Si	1.66190000	-0.18630000	1.75460000
Si	0.43360000	-0.66030000	-2.39480000	Si	0.97260000	2.33560000	1.07760000
Si	-0.22390000	2.61890000	-0.24330000	Si	-1.61650000	0.24110000	1.53890000
Si	-0.57880000	-2.83610000	0.01620000	Si	0.05280000	1.14050000	2.90610000
Si	1.73730000	-2.31750000	-0.29470000	Si	-2.38350000	2.31850000	-0.37190000
Si	0.41190000	-1.14940000	2.15920000	Si	0.32490000	1.51880000	-1.52250000

Si	-0.02760000	1.13640000	2.08140000	Si	1.46720000	-1.98580000	0.14640000
Si	-1.42330000	-2.79940000	2.32810000	Au	-4.32540000	-0.66890000	-0.28200000
Si	-2.35650000	1.32880000	1.70930000	Au	5.39100000	-0.79600000	-0.26340000
Si	-2.85470000	-0.99830000	1.31660000	Si	2.08560000	0.15830000	-0.82400000
Si	-2.67370000	3.24110000	0.22840000	Si	-1.57530000	0.19340000	-1.53220000
Si	-2.68150000	1.39040000	-1.27370000	Si	-0.28340000	3.58260000	-0.59010000
Si	-0.55380000	1.52400000	-2.33820000	Si	3.17050000	1.46240000	1.04170000
Si	-3.46860000	-0.86930000	-1.00630000	Si	-3.73930000	1.14950000	-1.94440000
Si	1.63740000	2.67530000	1.26240000	Si	-0.93640000	-1.54070000	-0.05100000
Si	2.71260000	-1.16780000	-2.08870000	Si	-3.83070000	1.35460000	1.20610000
Au	-0.88280000	-0.20460000	-0.15280000	Si	-2.96580000	-2.83240000	-0.44090000
Au	2.43020000	0.61620000	-0.04230000	Si	-2.76980000	-1.82550000	1.72020000
Si	2.75910000	-1.34520000	1.61980000	Si	4.35190000	1.18170000	-1.03730000

Au₂Si₁₈

		18A'			18B'		
	X	Y	Z		X	Y	Z
Si	-0.25640000	0.26290000	2.11180000	Si	-0.01530000	-2.31350000	-1.05480000
Si	-0.62230000	-1.86080000	1.21940000	Si	-2.38410000	-0.82340000	2.48410000
Si	-0.37030000	-1.60620000	-1.57500000	Si	1.18430000	1.24120000	2.28590000
Si	-0.15620000	0.70110000	-2.01890000	Si	2.13160000	2.40560000	-0.67630000
Si	0.45080000	3.05970000	0.26130000	Si	1.72660000	0.74960000	-2.36540000
Si	3.57140000	0.89750000	1.60620000	Si	-2.62650000	0.37110000	-2.03660000
Si	1.88540000	-0.58010000	2.50810000	Si	-2.34150000	-2.04800000	-1.64220000
Si	1.23920000	-2.98560000	2.24420000	Si	-3.49430000	-1.27770000	0.35620000
Si	2.11850000	-2.60550000	0.09070000	Si	-2.77730000	1.31510000	1.43220000
Si	1.56030000	-2.93590000	-2.23370000	Si	-0.56610000	2.18540000	0.93980000
Si	2.80280000	2.78110000	-0.28890000	Si	-0.48220000	1.52580000	-1.86250000
Si	3.83380000	-0.96620000	0.05550000	Si	-4.41850000	0.87920000	-0.39090000
Si	2.05920000	1.43760000	-2.42060000	Si	0.03210000	3.65260000	-0.87250000
Si	-1.31080000	2.34050000	1.65050000	Si	2.09070000	-1.64330000	-1.95810000
Si	-2.26700000	-2.37240000	-0.38900000	Si	0.13020000	-0.93630000	2.20860000
Si	2.73600000	-0.77750000	-1.97520000	Si	3.39630000	1.54000000	1.24640000
Si	-1.40820000	2.48890000	-1.08190000	Si	1.33160000	-2.66270000	0.90650000
Si	-3.24030000	2.00920000	0.28030000	Si	3.54340000	-2.02470000	0.02300000
Au	1.37300000	0.50080000	0.06480000	Au	1.75430000	-0.13180000	0.12750000
Au	-3.61060000	-0.37470000	-0.07270000	Au	-1.12710000	-0.24670000	0.04550000
		18C'			18D'		
	X	Y	Z		X	Y	Z
Si	-3.90000000	-1.74060000	-1.00990000	Si	-1.40090000	-1.30320000	2.09030000
Si	-1.62870000	-1.86240000	-1.85450000	Si	1.00850000	-1.23200000	2.24120000
Si	1.15340000	2.42700000	-1.05960000	Si	2.59470000	-0.45780000	-2.39980000
Si	-2.52200000	-1.70970000	0.89760000	Si	-2.09530000	1.00160000	2.45190000
Si	-0.33670000	-2.62280000	0.50450000	Si	-0.02250000	1.94840000	1.90510000

Si	-0.23720000	-0.28300000	2.65110000	Si	-0.57690000	3.83350000	0.57860000
Si	0.62000000	1.78440000	2.01040000	Si	0.43250000	2.30790000	-0.91080000
Si	-2.65920000	-0.54310000	2.97930000	Si	-2.34060000	2.12910000	0.28810000
Si	-1.19760000	2.72190000	0.91890000	Si	-1.16550000	1.06750000	-2.14020000
Si	-2.86540000	1.09130000	1.23310000	Si	-3.45000000	1.24290000	-1.63790000
Si	-0.90850000	3.78650000	-1.19480000	Si	0.19650000	-0.94970000	-2.20610000
Si	-1.93930000	1.63320000	-1.55340000	Si	-0.19300000	-2.52630000	-0.43710000
Si	-0.50020000	0.06890000	-2.52000000	Si	1.96230000	-2.58930000	0.62520000
Si	-4.00310000	0.74250000	-0.77420000	Si	-2.30380000	-2.94120000	0.61170000
Si	2.65890000	1.91210000	0.72350000	Si	2.73890000	1.76960000	-1.38370000
Si	-0.05850000	-3.59780000	-1.64860000	Si	2.03650000	0.88010000	2.32850000
Au	-0.09500000	0.06720000	0.04840000	Si	3.76690000	-1.37620000	-0.45460000
Au	2.75600000	-0.51510000	-0.01320000	Si	3.87830000	0.90610000	0.67740000
Si	1.84430000	0.51180000	-2.30440000	Au	-2.29460000	-0.60950000	-0.34120000
Si	1.46400000	-1.79260000	1.80210000	Au	1.39670000	-0.04820000	-0.05360000

Au₂Si₁₉

		19A'			19B'		
	X	Y	Z		X	Y	Z
Si	-0.68490000	1.91280000	-0.70560000	Si	0.28910000	-2.00650000	-1.39010000
Si	-0.60510000	0.44990000	1.98610000	Si	-2.41020000	-1.22020000	2.39380000
Si	-0.11800000	-2.41310000	0.92780000	Si	0.61380000	1.38980000	2.14700000
Si	-1.55100000	-3.06500000	-0.86100000	Si	1.43480000	2.85810000	-0.40520000
Si	-0.63910000	-1.03590000	-1.76190000	Si	1.29510000	1.39440000	-2.24050000
Si	1.48240000	2.86180000	-1.17930000	Si	-2.84010000	0.14460000	-1.92380000
Si	2.73490000	2.07710000	0.79730000	Si	-2.09280000	-2.14870000	-1.83050000
Si	1.65760000	1.13310000	2.67400000	Si	-3.34770000	-1.71160000	0.19610000
Si	3.16640000	-0.45060000	1.79760000	Si	-3.18120000	0.79230000	1.34500000
Si	2.32500000	-2.58970000	0.92410000	Si	-1.29010000	2.16990000	0.96400000
Si	1.32670000	-1.20410000	-3.24480000	Si	-1.00010000	1.68410000	-1.71680000
Si	4.93660000	1.03830000	0.97720000	Si	-4.79660000	0.19370000	-0.40070000
Si	2.68940000	-1.77120000	-1.29910000	Si	-0.84690000	3.79620000	-0.64850000
Si	2.22710000	0.87130000	-2.30160000	Si	2.06050000	-0.84570000	-2.44620000
Si	-2.65130000	-1.62740000	0.70110000	Si	0.08460000	-0.92380000	2.30350000
Si	4.04920000	0.11440000	-1.04550000	Si	2.80170000	2.14210000	1.43210000
Si	-2.19660000	0.77170000	-2.12530000	Si	2.18260000	-2.62550000	-0.07360000
Si	-1.44590000	-1.62470000	2.74100000	Si	3.94300000	-1.29590000	-1.05060000
Au	-3.62660000	0.48120000	-0.06730000	Au	1.90820000	0.06200000	0.13990000
Au	1.04140000	-0.04920000	0.03850000	Au	-1.05260000	-0.40540000	0.06110000
Si	-2.11550000	2.11360000	1.16070000	Si	2.27300000	-1.84960000	2.21060000
		19C'			19D'		
	X	Y	Z		X	Y	Z
Si	-0.35250000	-2.44670000	-0.85410000	Si	-2.93890000	0.67650000	1.55300000
Si	-2.75260000	-0.68860000	2.36440000	Si	-0.69110000	0.97260000	2.15110000
Si	0.84260000	1.16730000	2.28280000	Si	1.92150000	-2.72360000	-0.00070000
Si	2.17180000	2.50730000	-0.21230000	Si	-3.97690000	2.29660000	0.00150000

Si	1.61980000	0.27960000	-2.37880000	Si	-1.90360000	3.66830000	0.00010000
Si	-2.61330000	0.43980000	-2.11660000	Si	-0.69390000	0.97240000	-2.15300000
Si	-2.55390000	-1.96320000	-1.63690000	Si	0.58610000	-0.93500000	-2.06940000
Si	-3.77630000	-1.00530000	0.19750000	Si	-2.94060000	0.67670000	-1.55130000
Si	-2.99950000	1.42950000	1.23100000	Si	-0.84340000	-2.72620000	-1.54290000
Si	-0.77860000	2.23380000	0.87990000	Si	-3.00340000	-1.71060000	-1.18340000
Si	-0.40240000	1.41750000	-1.83550000	Si	0.13250000	-4.34330000	-0.00080000
Si	-4.57240000	1.13100000	-0.68250000	Si	-0.84230000	-2.72640000	1.54230000
Si	0.07190000	3.57490000	-0.88740000	Si	0.58750000	-0.93580000	2.07010000
Si	1.76150000	-2.03370000	-1.80300000	Si	-3.00270000	-1.71100000	1.18480000
Si	-0.22490000	-0.97680000	2.27840000	Si	2.90280000	-1.24360000	-1.55440000
Si	3.10270000	1.57880000	1.82070000	Si	-0.03900000	3.02220000	1.22380000
Si	0.99890000	-2.70400000	1.09210000	Au	-0.98820000	-0.46250000	0.00010000
Si	3.24750000	-2.43690000	0.16640000	Au	2.74650000	0.77940000	0.00040000
Au	1.85690000	-0.24020000	0.23610000	Si	2.90370000	-1.24490000	1.55290000
Au	-1.22160000	-0.23200000	0.04980000	Si	-0.04030000	3.02070000	-1.22430000
Si	3.62510000	1.16070000	-1.51950000	Si	1.95980000	3.20590000	-0.00180000

Au ₂ Si ₂₀							
	20A'				20B'		
	X	Y	Z		X	Y	Z
Si	-0.52490000	4.06130000	0.00000000	Si	2.30420000	1.78440000	2.02540000
Si	0.74290000	2.57350000	-1.36040000	Si	1.97980000	-0.57280000	2.26140000
Si	-2.40570000	2.29400000	0.00000000	Si	0.03730000	-1.93500000	1.80270000
Si	0.74290000	2.57350000	1.36040000	Si	1.21270000	-3.60480000	0.38250000
Si	2.99840000	1.64210000	-1.23170000	Si	4.58420000	-0.85490000	-0.92090000
Si	-0.66060000	0.95990000	-2.37760000	Si	3.50080000	1.30360000	-0.16010000
Si	-2.98970000	0.88240000	-1.99520000	Si	-0.09220000	2.16040000	1.56640000
Si	-2.98970000	0.88240000	1.99520000	Si	-2.26070000	-1.64560000	2.38840000
Si	-0.66060000	0.95990000	2.37760000	Si	0.55710000	-1.94700000	-1.26040000
Si	2.99840000	1.64210000	1.23170000	Si	2.43630000	-0.53690000	-2.04980000
Si	2.98970000	-0.88240000	-1.99520000	Si	2.11560000	1.85070000	-2.03800000
Si	0.66060000	-0.95990000	-2.37760000	Si	-1.18310000	3.83910000	0.18070000
Si	-2.99840000	-1.64210000	-1.23170000	Si	-2.81090000	2.00700000	0.53370000
Si	-2.99840000	-1.64210000	1.23170000	Si	-3.54860000	-1.91320000	-0.86700000
Si	0.66060000	-0.95990000	2.37760000	Si	-1.53850000	-1.65660000	-2.38210000
Si	2.98970000	-0.88240000	1.99520000	Si	-1.71130000	0.71440000	-2.32220000
Si	2.40570000	-2.29400000	0.00000000	Si	-0.17490000	2.23640000	-1.32980000
Si	-0.74290000	-2.57350000	-1.36040000	Si	2.95860000	-1.84990000	0.55960000
Si	-0.74290000	-2.57350000	1.36040000	Si	-3.71930000	0.55830000	-1.13820000
Si	0.52490000	-4.06130000	0.00000000	Si	-1.89700000	0.74070000	2.29100000
Au	1.36900000	0.06850000	0.00000000	Au	-1.55080000	-0.53640000	0.04240000
Au	-1.36900000	-0.06850000	0.00000000	Au	1.06350000	0.41620000	0.04200000
	20C'				20D'		
	X	Y	Z		X	Y	Z
Si	0.00000000	3.37610000	1.60450000	Si	1.35960000	2.43210000	1.44330000
Si	1.56000000	1.63650000	1.93960000	Si	0.92180000	0.99710000	3.33160000
Si	0.00000000	-3.37610000	1.60450000	Si	-1.22880000	-3.40260000	-0.20340000

Si	0.00000000	4.10050000	-0.84530000	Si	0.33840000	0.07910000	-1.95030000
Si	1.74610000	2.59250000	-1.88820000	Si	-0.88820000	2.84710000	0.83700000
Si	0.00000000	1.19640000	-2.85130000	Si	-1.21850000	1.01830000	2.25570000
Si	-1.74610000	-2.59250000	-1.88820000	Si	-3.12460000	-2.25330000	-1.51630000
Si	-1.74610000	2.59250000	-1.88820000	Si	-1.94980000	-0.27060000	-2.46760000
Si	-2.63620000	-1.19620000	-0.10910000	Si	0.67430000	2.26210000	-1.13170000
Si	-2.63620000	1.19620000	-0.10910000	Si	0.99290000	-0.98650000	2.06590000
Si	-1.56000000	-1.63650000	1.93960000	Si	0.92460000	-2.45750000	-0.59570000
Si	-1.27270000	0.00000000	3.63670000	Si	2.20070000	-1.36720000	-2.23590000
Si	1.27270000	0.00000000	3.63670000	Si	-2.74620000	1.66480000	-1.43250000
Si	-1.56000000	1.63650000	1.93960000	Si	-2.85890000	-0.69570000	2.31930000
Si	0.00000000	-4.10050000	-0.84530000	Si	-3.88850000	-0.59220000	0.16850000
Si	2.63620000	1.19620000	-0.10910000	Si	-1.36330000	3.65020000	-1.31400000
Si	1.56000000	-1.63650000	1.93960000	Si	-4.85310000	1.49140000	-0.35300000
Si	0.00000000	-1.19640000	-2.85130000	Si	2.72650000	-2.09330000	0.90660000
Si	2.63620000	-1.19620000	-0.10910000	Si	-1.04350000	-2.19780000	1.85490000
Au	0.00000000	1.39370000	-0.25310000	Si	2.86360000	2.42280000	-0.30280000
Au	0.00000000	-1.39370000	-0.25310000	Au	3.41880000	-0.06610000	-0.31950000
Si	1.74610000	-2.59250000	-1.88820000	Au	-1.26380000	-0.38540000	0.02180000