Table S1. Idealized geometries included in the library of FindGeo (CN = coordination number, Name = three-letter code identifying the geometry in FindGeo, Description = description of the idealized geometry in terms of the corresponding ideal polyhedron or polygon, Symbol = polyhedral symbol denoting the geometry as taken from the "Red Book" (when present)).

CN	Name	Description	Symbol
2	lin	Linear	L-2
	trv	Trigonal plane with a vacancy ^a	A-2
3	tri	Trigonal plane	TP-3
	tev	Tetrahedron with a vacancy ^b	TPY-3
	spv	Square plane with a vacancy ^c	TS-3
4	tet	Tetrahedron	T-4
	spl	Square plane	SP-4
	bva	Trigonal bipyramid with a vacancy (axial)	-
	bvp	Trigonal bipyramid with a vacancy (equatorial) ^d	SS-4
	pyv	Square pyramid with a vacancy (equatorial)	-
5	spy	Square pyramid	SPY-5
	tbp	Trigonal bipyramid	TBPY-5
	tpv	Trigonal prism with a vacancy	-
6	oct	Octahedron	OC-6
	tpr	Trigonal prism	TPR-6
	pva	Pentagonal bipyramid with a vacancy (axial)	-
	pvp	Pentagonal bipyramid with a vacancy (equatorial)	-
	cof	Octahedron, face monocapped with a vacancy (capped face)	-
	con	Octahedron, face monocapped with a vacancy (non-capped face)	-
	ctf	Trigonal prism, square-face monocapped with a vacancy (capped face)	-
	ctn	Trigonal prism, square-face monocapped with a vacancy (non-capped edge)	-
7	pbp	Pentagonal bipyramid	PBPY-7
	coc	Octahedron, face monocapped	OCF-7
	ctp	Trigonal prism, square-face monocapped	TPRS-7
	hva	Hexagonal bipyramid with a vacancy (axial)	-
	hvp	Hexagonal bipyramid with a vacancy (equatorial)	-
	cuv	Cube with a vacancy	-
	sav	Square antiprism with a vacancy	-
8	hbp	Hexagonal bipyramid	HBPY-8
	cub	Cube	CU-8
	sqa	Square antiprism	SAPR-8
	boc	Octahedron, trans-bicapped	OCT-8
	bts	Trigonal prism, square-face bicapped	TPRS-8
	btt	Trigonal prism, triangular-face bicapped	TPRT-8
9	ttp	Trigonal prism, square-face tricapped	TPRS-9
	csa	Square antiprism, square-face monocapped	-

^aAlso described as angular ^bAlso described as trigonal pyramid ^cAlso described as T-shape

^dAlso described as see-saw