

Gordon J Miller

List of Publications by Year in descending order

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136
papers

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159
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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	The "Coloring Problem" in Solids: How It Affects Structure, Composition and Properties. <i>European Journal of Inorganic Chemistry</i> , 1998, 1998, 523-536.	1.0	198
2	Magnetic field effects on transport properties of PtSn ₄ . <i>Physical Review B</i> , 2012, 85, .	1.1	141
3	Fragment formalism in main-group solids: applications to aluminum boride (AlB ₂), calcium aluminum silicide (CaAl ₂ Si ₂), barium-aluminum (BaAl ₄), and related materials. <i>Chemistry of Materials</i> , 1990, 2, 12-26.	3.2	114
4	The s ² p Bonded Representatives of the Prominent BaAl ₄ Structure Type: A Case Study on Structural Stability of Polar Intermetallic Network Structures. <i>Journal of the American Chemical Society</i> , 2002, 124, 4371-4383.	6.6	81
5	Atomic Distributions in the β -Brass Structure of the Cu ² Zn System: A Structural and Theoretical Study. <i>Inorganic Chemistry</i> , 2007, 46, 251-260.	1.9	79
6	Metallic behavior of the Zintl phase EuGe ₂ : combined structural studies, property measurements, and electronic structure calculations. <i>Journal of Solid State Chemistry</i> , 2004, 177, 3545-3552.	1.4	77
7	Complex rare-earth tetrelides, RE ₅ (SixGe _{1-x}) ₄ : New materials for magnetic refrigeration and a superb playground for solid state chemistry. <i>Chemical Society Reviews</i> , 2006, 35, 799-813.	18.7	70
8	A covalent view of chemical bonding in Laves phases CaLi _x Al _{2-x} . <i>Journal of Alloys and Compounds</i> , 1993, 197, 109-121.	2.8	66
9	Crystal structure and magnetism of Gd ₂ MgGe ₂ . <i>Journal of Alloys and Compounds</i> , 2001, 329, 121-130.	2.8	65
10	Gd _{5-x} Y _x Tt ₄ (Tt = Si or Ge): Effect of Metal Substitution on Structure, Bonding, and Magnetism. <i>Journal of the American Chemical Society</i> , 2008, 130, 13900-13911.	6.6	60
11	Phase Transformation Driven by Valence Electron Concentration: Tuning Interslab Bond Distances in Gd ₅ GaxGe _{4-x} . <i>Journal of the American Chemical Society</i> , 2003, 125, 15183-15190.	6.6	59
12	Quantitative Advances in the Zintl "Klemm Formalism". <i>Structure and Bonding</i> , 2011, , 1-55.	1.0	54
13	An Application of the "Coloring Problem" to Structure-Composition-Bonding Relationships in the Magnetocaloric Materials LaFe _{13-x} Si _x . <i>Inorganic Chemistry</i> , 2008, 47, 515-528.	1.9	53
14	Gold Tetrahedra as Building Blocks in K ₃ Au ₅ Tr (Tr = In, Tl) and Rb ₂ Au ₃ Tl and in Other Compounds: A Broad Group of Electron-Poor Intermetallic Phases. <i>Inorganic Chemistry</i> , 2009, 48, 6573-6583.	1.9	45
15	Ladders of a Magnetically Active Element in the Structure of the Novel Complex Boride Ti ₉ Fe ₂ Ru ₁₈ B ₈ : Synthesis, Structure, Bonding, and Magnetism. <i>Inorganic Chemistry</i> , 2008, 47, 2113-2120.	1.9	44
16	Linking Intermetallics and Zintl Compounds: An Investigation of Ternary Trielides (Al, Ga, In) Forming the NaZn ₁₃ Structure Type. <i>Inorganic Chemistry</i> , 1999, 38, 579-590.	1.9	43
17	Where Are the Elements in Complex Aluminides? An Experimental and Theoretical Investigation of the Quasicrystalline Approximants, Mg _{2-y} (ZnxAl _{1-x}) _{3+y} . <i>Journal of the American Chemical Society</i> , 2000, 122, 4937-4947.	6.6	43
18	Electronic structure, chemical bonding, and magnetic properties in the intermetallic series Sc ₂		

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19	A Sodium-Containing Quasicrystal: Using Gold To Enhance Sodium's Covalency in Intermetallic Compounds. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12699-12702.	7.2	42
20	Crystal structure and electronic structure of $Nb_xTa_{2-x}S$ ($x \approx 0.95$): A new layered compound in ternary Ta-Nb-S system. <i>Journal of Alloys and Compounds</i> , 1992, 183, 7-17.	2.8	40
21	Three Alkali-Metal-Gold-Gallium Systems. Ternary Tunnel Structures and Some Problems with Poorly Ordered Cations. <i>Inorganic Chemistry</i> , 2012, 51, 7711-7721.	1.9	40
22	Nanoscale Zippers in the Crystalline Solid. Structural Variations in the Giant Magnetocaloric Material $Gd_5Si_{1.5}Ge_{2.5}$. <i>Chemistry of Materials</i> , 2003, 15, 1413-1419.	3.2	39
23	Revisiting the Zintl-Klemm Concept: Alkali Metal Trielides. <i>Inorganic Chemistry</i> , 2011, 50, 7625-7636.	1.9	38
24	Chemistry and properties of novel niobium cluster compounds. <i>Journal of Alloys and Compounds</i> , 1995, 229, 93-106.	2.8	36
25	Four Polyanionic Compounds in the Au-Ga System: A Case Study in Exploratory Synthesis and of the Art of Structural Analysis. <i>Inorganic Chemistry</i> , 2012, 51, 1695-1702.	1.9	36
26	Intergrowth Compounds in the Zn-Rich Zn-Pd System: Toward 1D Quasicrystal Approximants. <i>Chemistry of Materials</i> , 2006, 18, 1848-1856.	3.2	35
27	$Gd_5Si_4P_x$: Targeted Structural Changes through Increase in Valence Electron Count. <i>Journal of the American Chemical Society</i> , 2009, 131, 2367-2374.	6.6	35
28	$\hat{\Gamma}$ -Mn-Type $Co_{8+x}Zn_{12-x}$ as a Defect Cubic Laves Phase: Site Preferences, Magnetism, and Electronic Structure. <i>Inorganic Chemistry</i> , 2013, 52, 9399-9408.	1.9	34
29	Experimental and Theoretical Studies of Elemental Site Preferences in Quasicrystalline Approximants (R-Phases) within the $Li-Mg-Zn-Al$ System. <i>Inorganic Chemistry</i> , 2001, 40, 338-345.	1.9	33
30	Nanoscale Zippers in $Gd_5(Si_xGe_{1-x})_4$: Symmetry and Chemical Influences on the Nanoscale Zipping Action. <i>Inorganic Chemistry</i> , 2003, 42, 8223-8229.	1.9	33
31	Planar versus Puckered Nets in the Polar Intermetallic Series $EuGaTt$ ($Tt = Si, Ge, Sn$). <i>Inorganic Chemistry</i> , 2007, 46, 8801-8811.	1.9	33
32	The structural phase transition in calcium-aluminum compound ($CaAl_4$): a concerted application of Landau theory and energy band theory. <i>Journal of the American Chemical Society</i> , 1993, 115, 3739-3745.	6.6	32
33	Reinvestigation of the $GaMn$ structure and theoretical studies of its electronic and magnetic properties. <i>Journal of Solid State Chemistry</i> , 2003, 173, 137-147.	1.4	32
34	High-Temperature Thermoelectric Properties of the Solid Solution Zintl Phase $Eu_{11}Cd_6Sb_{12}As_x$ ($x < 1$). <i>Journal of Applied Physics</i> , 2009, 105, 084307.	3.2	32
35	Conventional and Stuffed Bergman-Type Phases in the Na-Au-T ($T = Ga, Ge, Sn$) Systems: Syntheses, Structures, Coloring of Cluster Centers, and Fermi Sphere-Brillouin Zone Interactions. <i>Inorganic Chemistry</i> , 2012, 51, 8882-8889.	1.9	30
36	C-H Insertion Catalyzed by Tetratolylporphyrinato Methyliridium via a Metal-Carbene Intermediate. <i>Organometallics</i> , 2012, 31, 5586-5590.	1.1	30

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37	Cation-Poor Complex Metallic Alloys in Ba(Eu)AuAl(Ga) Systems: Identifying the Keys that Control Structural Arrangements and Atom Distributions at the Atomic Level. <i>Inorganic Chemistry</i> , 2015, 54, 10296-10308.	1.9	30
38	Turning Gold into "Diamond": A Family of Hexagonal Diamond-Type Au-Frameworks Interconnected by Triangular Clusters in the SrAlAu System. <i>Journal of the American Chemical Society</i> , 2014, 136, 3108-3117.	6.6	29
39	Polytypism and Unique Site Preference in LiZnSb: A Superior Thermoelectric Reveals Its True Colors. <i>Journal of the American Chemical Society</i> , 2016, 138, 14574-14577.	6.6	29
40	Electron-Poor Polar Intermetallics: Complex Structures, Novel Clusters, and Intriguing Bonding with Pronounced Electron Delocalization. <i>Accounts of Chemical Research</i> , 2018, 51, 49-58.	7.6	29
41	Crystallographic, Electronic, and Magnetic Studies of $\text{Ir}_2\text{-GaM}$ (M = Cr, Mn or Fe): Trends in Itinerant Magnetism. <i>Inorganic Chemistry</i> , 2004, 43, 3210-3218.	1.9	27
42	Linear Metal Chains in $\text{Ca}_2\text{M}_2\text{X}$ (M = Pd, Pt; X = Al, Ge): Origin of the Pairwise Distortion and Its Role in the Structure Stability. <i>Chemistry of Materials</i> , 2015, 27, 304-315.	3.2	27
43	Microstructural analysis of twinned $\text{Gd}_5\text{Si}_2\text{Ge}_2$. <i>Physical Review B</i> , 2002, 66, .	1.1	26
44	A New Superstructure for the BaAl_4 -Structure Type: An Experimental and Theoretical Study of La_2NiAl_7 . <i>Chemistry of Materials</i> , 2005, 17, 3661-3667.	3.2	26
45	Polyclusters and Substitution Effects in the NaAuGa System: Remarkable Sodium Bonding Characteristics in Polar Intermetallics. <i>Inorganic Chemistry</i> , 2013, 52, 12502-12510.	1.9	25
46	Scaffolding, Ladders, Chains, and Rare Ferrimagnetism in Intermetallic Borides: Electronic Structure Calculations and Magnetic Ordering. <i>Journal of the American Chemical Society</i> , 2011, 133, 6832-6840.	6.6	24
47	Computational Design of Rare-Earth-Free Magnets with the $\text{Ti}_3\text{Co}_5\text{B}_2$ -Type Structure. <i>Chemistry of Materials</i> , 2017, 29, 2535-2541.	3.2	24
48	On the Structural Chemistry of PdZnAl Brasses: Two Different Interpenetrating Networks in Ternary PdZnAl Phases. <i>Chemistry - A European Journal</i> , 2010, 16, 5461-5471.	1.7	23
49	New CoPdZn Brasses with Dilute Ferrimagnetism and $\text{Co}_2\text{Zn}_{11}$ Revisited: Establishing the Synergism between Theory and Experiment. <i>Chemistry of Materials</i> , 2014, 26, 2624-2634.	3.2	23
50	Ternary Metal-Rich Phosphides: Structure, Bonding, and Site Preferences in ZrNbP and $\text{Hf}_{1+x}\text{Mo}_{1-x}\text{P}$. <i>Inorganic Chemistry</i> , 1995, 34, 2962-2968.	1.9	22
51	Solid state chemistry of Nb_3Cl_8 : Nb_3TeCl_7 , mixed crystal formation, and intercalation. <i>Journal of Alloys and Compounds</i> , 1995, 217, 5-12.	2.8	22
52	$\text{Na}_8\text{Au}_9.8(4)\text{Ga}_7.2$ and $\text{Na}_{17}\text{Au}_{5.87(2)}\text{Ga}_{46.63}$: The diversity of pseudo 5-fold symmetries in the NaAuGa system. <i>Journal of Solid State Chemistry</i> , 2013, 207, 21-28.	1.4	22
53	Preparation and Instability of Nanocrystalline Cuprous Nitride. <i>Inorganic Chemistry</i> , 2015, 54, 6356-6362.	1.9	22
54	Novel Tantalum Chalcogenide Halides: The First Ta_3 Clusters in the Solid State. <i>Journal of the American Chemical Society</i> , 1996, 118, 12238-12239.	6.6	21

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55	Scaffolding, Ladders, Chains, and Rare Ferrimagnetism in Intermetallic Borides: Synthesis, Crystal Chemistry and Magnetism. <i>Inorganic Chemistry</i> , 2011, 50, 6289-6296.	1.9	21
56	Crystal Structure and Bonding in BaAu ₅ Ga ₂ and AeAu _{4+x} Ga ₃ (Ae = Ba and Eu): Hexagonal Diamond-Type Au Frameworks and Remarkable Cation/Anion Partitioning in the Ae-Au-Ga Systems. <i>Inorganic Chemistry</i> , 2015, 54, 1010-1018.	1.9	21
57	Electronic structure, superconductivity, and substitution patterns in Tl ₅ Te ₃ . <i>Journal of Alloys and Compounds</i> , 1996, 241, 51-62.	2.8	19
58	Crystallographic, electronic and magnetic studies of Ce ₄ Ni ₆ Al ₂₃ : a new ternary intermetallic compound in the cerium-nickel-aluminum phase diagram. <i>Journal of Solid State Chemistry</i> , 2003, 174, 471-481.	1.4	19
59	Composition-Structure Relationships in Polar Intermetallics: An Experimental and Theoretical Studies of LaNi _{1+x} Al _{6-x} (x = 0.44). <i>Inorganic Chemistry</i> , 2004, 43, 4604-4609.	1.9	19
60	Structure Determination of Two Modulated β -Brass Structures in the Zn-Pd System through a (3 +) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.9	19
61	β -Brasses with Spontaneous Magnetization: Atom Site Preferences and Magnetism in the Fe-Zn and Fe-Pd-Zn Phase Spaces. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 270-278.	0.6	19
62	Ln ₃ Au ₂ Al ₉ (Ln = $\frac{3}{4}$ Dy, Tb): Heteronuclear versus Homonuclear Bonding in Intermetallic Phases. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 2008-2010.	4.4	18
63	Introducing Proper Chemical Hygiene and Safety in the General Chemistry Curriculum. <i>Journal of Chemical Education</i> , 2000, 77, 1185.	1.1	18
64	Synthesis and Oxidation Catalysis of [Tris(oxazolonyl)borato]cobalt(II) Scorpionates. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 2486-2494.	1.0	18
65	On the distribution of tetrelide atoms (Si, Ge) in Gd ₅ (SixGe _{1-x}) ₄ . <i>Journal of Solid State Chemistry</i> , 2006, 179, 2290-2297.	1.4	17
66	Structural and Magnetic Characteristics of Gd ₅ Ga _x Si _{4-x} . <i>Inorganic Chemistry</i> , 2010, 49, 4586-4593.	1.9	17
67	Relation between chemical bonding and exchange coupling approaches to the description of ordering in itinerant magnets. <i>Journal of Computational Chemistry</i> , 2008, 29, 2177-2186.	1.5	16
68	Small Molecules Stabilized in Inorganic Frameworks: NbI ₅ Monomers in the Novel Layered Compound Nb ₇ S ₂ I ₁₉ . <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 334-336.	4.4	15
69	Third time's the charm: intricate non-centrosymmetric polymorphism in Ln ₂ Si ₃ (Ln = La and Ce) induced by distortions of phosphorus square layers. <i>Dalton Transactions</i> , 2021, 50, 6463-6476.	1.6	15
70	Title is missing!. <i>Journal of Mathematical Chemistry</i> , 2003, 33, 55-79.	0.7	14
71	On the "coloring problem" in YMgZn and related phases. <i>Inorganica Chimica Acta</i> , 2008, 361, 3053-3062.	1.2	14
72	Structure-composition sensitivity in "Metallic" Zintl phases: A study of Eu(Ga _{1-x} Tt _x) ₂ (Tt=Si, Ge), Tj ETQq0 0 0 rgBT /Overlock	1.4	14

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73	Chemical Pressure and Rare-Earth Orbital Contributions in Mixed Rare-Earth Silicides $\text{La}_{1-x}\text{Y}_x\text{Si}_4$ ($0 \leq x \leq 5$). <i>Inorganic Chemistry</i> , 2011, 50, 12714-12723.	1.9	14
74	Revisiting the Zintl-Klemm Concept: A_2AuBi ($\text{A} = \text{Li or Na}$). <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 3989-3998.	1.0	14
75	Spin Frustration and Magnetic Ordering from One-Dimensional Stacking of Cr_3 Triangles in TiCr_2B_2 . <i>Inorganic Chemistry</i> , 2016, 55, 5640-5648.	1.9	14
76	On the Crystal Structure, Metal Atom Site Preferences and Magnetic Properties of $\text{Nd}_{5-x}\text{Er}_x\text{Tt}_4$ ($\text{Tt} = \text{Si, Ti, Zr, Hf}$). <i>Journal of Solid State Chemistry</i> , 2011, 182, 3031-3040.	0.6	13
77	Structural, magnetic, and thermal characteristics of the phase transitions in $\text{Gd}_5\text{GaxGe}_4$ magnetocaloric materials. <i>Journal of Solid State Chemistry</i> , 2009, 182, 3031-3040.	1.4	13
78	$\text{EuAg}_x\text{Al}_{11-x}$ with the BaCd_{11} -Type Structure: Phase Width, Coloring, and Electronic Structure. <i>Chemistry of Materials</i> , 2009, 21, 230-236.	3.2	13
79	To What Extent Does the Zintl-Klemm Formalism Work? The $\text{Eu}(\text{Zn}_{1-x}\text{Gex})_2$ Series. <i>Inorganic Chemistry</i> , 2009, 48, 6380-6390.	1.9	13
80	$\text{EuAg}_x\text{Al}_{11-x}$ with the BaHg_{11} -Type Structure: Composition, Coloring, and Competition with the BaCd_{11} -Type Structure. <i>Chemistry of Materials</i> , 2010, 22, 1798-1806.	3.2	13
81	Gd_2AlGe_2 : An Almost-Zintl Phase and a New Stacking Variant of the W_2CoB_2 Type Dedicated to Professor Welf Bronger on the Occasion of his 70th Birthday. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2002, 628, 1575.	0.6	12
82	Theoretical Interpretation of the Structural Variations along the $\text{Eu}(\text{Zn}_{1-x}\text{Gex})_2$ ($0 \leq x \leq 1$) Series. <i>Inorganic Chemistry</i> , 2009, 48, 6391-6401.	1.9	12
83	Electronically Induced Ferromagnetic Transitions in Sm_5Ge_4 -Type Magnetoresponse Phases. <i>Physical Review Letters</i> , 2013, 110, 077204.	2.9	12
84	Rhombohedrally Distorted $\text{Au}_5\text{Zn}_{8+y}$ Phases in the Au-Zn System. <i>Inorganic Chemistry</i> , 2013, 52, 1328-1337.	1.9	12
85	Ordered BaAl_4 -Type Variants in the BaAuxSn_4 System: A Unified View on Their Phase Stabilities versus Valence Electron Counts. <i>Inorganic Chemistry</i> , 2014, 53, 5875-5877.	1.9	12
86	Theoretical studies on cerium nickel aluminides: polar intermetallics with heavy fermion behavior. <i>Journal of Solid State Chemistry</i> , 2003, 176, 538-548.	1.4	11
87	Phase Width and Site Preferences in the $\text{EuMg}_x\text{Ga}_{4-x}$ Series. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2008, 634, 2845-2852.	0.6	11
88	Crystal Structures and Stabilities of Au - and Cu -Brass Phases in $\text{Pd}_2\text{Au}_x\text{Zn}_{11-x}$ ($x = 0.2-0.8$): Vacancies vs. Valence Electron Concentration. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2011, 637, 1992-1999.	0.6	11
89	Rhombohedrally Distorted Cr_3 -Brasses Cr_3FexGa . <i>Inorganic Chemistry</i> , 2010, 49, 11505-11515.	1.9	10
90	Valence State Driven Site Preference in the Quaternary Compound $\text{Ca}_5\text{MgAgGe}_5$: An Electron-Deficient Phase with Optimized Bonding. <i>Inorganic Chemistry</i> , 2014, 53, 4724-4732.	1.9	10

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91	Li ₁₀ Mg ₆ Zn ₃₁ Al ₃ : A New Intermetallic Phase Containing Building Blocks for Decagonal Quasicrystals. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 4740-4742.	7.2	9
92	The coloring problem in intermetallics: bonding and properties of Tb ₃ Zn _{3.6} Al _{7.4} with the La ₃ Al ₁₁ structure type. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2005, 220, .	0.4	9
93	The Coloring Problem in Solids: Implications for Structures and Properties. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2006, 632, 2078-2078.	0.6	9
94	K ₂₃ Au ₁₂ Sn ₉ An Intermetallic Compound Containing a Large Gold-Tin Cluster: Synthesis, Structure, and Bonding. <i>Inorganic Chemistry</i> , 2010, 49, 1503-1509.	1.9	9
95	Complex Polyanionic Nets in RbAu _{4.01(2)} Ga _{8.64(5)} and CsAu ₅ Ga ₉ : The Role of Cations in the Formation of New Polar Intermetallics. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 790-796.	0.6	9
96	Influence of Valence Electron Concentration on Laves Phases: Structures and Phase Stability of Pseudo-Binary MgZn ₂ Pd _x . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 1486-1494.	0.6	9
97	An Icosahedral Quasicrystal and Its 1/0 Crystalline Approximant in the Ca-Au-Al System. <i>Inorganic Chemistry</i> , 2016, 55, 10425-10437.	1.9	9
98	Crystal structure, homogeneity range and electronic structure of rhombohedral $\bar{1}$ -Mn ₅ Al ₈ . <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2017, 232, 601-610.	0.4	9
99	Atomic site preferences and its effect on magnetic structure in the intermetallic borides M ₂ Fe(Ru _{0.8} Ti _{0.2}) ₅ B ₂ (M=Sc, Ti, Zr; T=Ru, Rh, Ir). <i>Journal of Solid State Chemistry</i> , 2012, 196, 168-174.	1.4	8
100	Magnetic Ordering in Tetragonal 3d Metal Arsenides M ₂ As (M = Cr, Mn, Fe): An Ab Initio Investigation. <i>Inorganic Chemistry</i> , 2013, 52, 3013-3021.	1.9	8
101	The Y ₅ Mg ₂₄ +(1.08(4)%) _{1.30(1)} series and a ternary derivative Ce _{6.9} Y _{12.5} (7)Mg _{92.2} : A comparison of their crystal and electronic structures. <i>Journal of Solid State Chemistry</i> , 2013, 204, 170-177.	1.4	8
102	Pd _{2.28(1)} Zn _{10.37(1)} Al _{0.35(1)} , a ternary $\bar{1}$ -brass-type structure. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, i5-i5.	0.2	8
103	In anorganischen Festkörpern stabilisierte kleine Moleküle: Nb ₅ Monomere in der neuartigen Schichtverbindung Nb ₇ S ₂ I ₁₉ . <i>Angewandte Chemie</i> , 1994, 106, 357-359.	1.6	7
104	Structure and bonding consequences in the pseudo-binary system Ln ₅ Si ₃ xMx (Ln=La, Ce or Nd; M=Ni) <i>Tj ETQq0.0.0 rgBT /Overlock 1</i>	2.8	7
105	Ba ₁₄ Zn ₅ xAl _{22+x} : a new polar intermetallic compound with a novel 2D network. <i>Journal of Solid State Chemistry</i> , 2003, 170, 94-105.	1.4	7
106	Vacancies and Insertions in the RE ₁₀ Ni ₉ In ₂₀ Series (RE = Ho, Tm, Lu). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009, 635, 1831-1839.	0.6	7
107	Synergistic Geometrical and Electronic Features in the Intermetallic Phases Ca ₂ AgM ₂ , Ca ₂ MgM ₂ , and Ca ₂ GaM ₂ (M = Pd, Pt). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 1069-1079.	0.6	7
108	Competition between Direct and Indirect Exchange Couplings in MnFeAs: A First-Principles Investigation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 580-589.	1.5	7

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109	Polar Intermetallics Pr ₅ Co ₂ Ge ₃ and Pr ₇ Co ₂ Ge ₄ with Planar Hydrocarbon-Like Metal Clusters. Chemistry - A European Journal, 2017, 23, 10516-10521.	1.7	7
110	Structure and Bonding of an Intergrowth Phase Ca ₇ Ag _{2+x} Ge ₇ (x = 2/3) Featuring a Zintl-Type Polyanionic Chain. European Journal of Inorganic Chemistry, 2016, 2016, 169-176.	1.7	6
111	Packing of Russian doll clusters to form a nanometer-scale CsCl-type compound in a Zn-Sn complex metallic alloy. Journal of Materials Chemistry C, 2017, 5, 7215-7221.	2.7	6
112	Add a Pinch of Tetrel: The Transformation of a Centrosymmetric Metal into a Nonsymmorphic and Chiral Semiconductor. Chemistry - A European Journal, 2022, 28, .	1.7	6
113	Slater-Pauling behavior within quaternary intermetallic borides of the Ti ₃ Co ₅ B ₂ structure-type. Journal of Solid State Chemistry, 2009, 182, 2613-2619.	1.4	5
114	Scaffolds of magnetically active 3d metals in the valence electron controlled borides Ti ₉ M _{2+x} Ru ₁₈ B ₈ (M=Cr-Ni; x=0.5-1): Structural, electronic and magnetic properties. Journal of Solid State Chemistry, 2013, 204, 283-290.	1.4	5
115	Gold's Structural Versatility within Complex Intermetallics: From Hume-Rothery to Zintl and even Quasicrystals. Materials Research Society Symposia Proceedings, 2013, 1517, 1.	0.1	5
116	Intermetallic Chemistry: New Advances in Humanity's Age-Old Exploration of Metals and Alloys. Accounts of Chemical Research, 2018, 51, 213-213.	7.6	5
117	From Quasicrystals to Crystals with Interpenetrating Icosahedra in Ca-Au-Al: In Situ Variable-Temperature Transformation. Journal of the American Chemical Society, 2018, 140, 1337-1347.	6.6	5
118	Ln ₃ Au ₂ Al ₉ (Ln = Dy, Tb): heteronucleare versus homonucleare Bindung in intermetallischen Phasen. Angewandte Chemie, 1997, 109, 2098-2101.	1.6	4
119	Zn ₁₃ (Cr _x Al _{1-x}) ₂₇ (x = 0-1) Tj ETQq1 Kristallographie, 2011, 226, 557-567.	1.1	4
120	Tuning Complexity by Lithiation: A Family of Intergrowth Structures Using Condensed hypso-Icosahedra in the Li-Doped Ca-Zn System. Inorganic Chemistry, 2016, 55, 5041-5050.	1.9	4
121	Î-brasses in the Mn-Zn system: An experimental and computational study. Journal of Solid State Chemistry, 2019, 269, 297-304.	1.4	4
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