

Gordon J Miller

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/343525/publications.pdf>

Version: 2024-02-01

136
papers

3,189
citations

147726

31
h-index

214721

47
g-index

159
all docs

159
docs citations

159
times ranked

2053
citing authors

#	ARTICLE	IF	CITATIONS
1	Add a Pinch of Tetrel: The Transformation of a Centrosymmetric Metal into a Nonsymmorphic and Chiral Semiconductor. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	6
2	Experimental and Theoretical Study on the Nonmagnetic Li/Mg Cosubstitution in the $Gd_{5-x}(Li/Mg)_xGe_4$ ($x = 1.04, 1.17, 1.53$) System. <i>Inorganic Chemistry</i> , 2022, 61, 4459-4467.	1.9	1
3	Structure-Composition Subtleties in $NaZn_{13}$ -type Derivatives of $Sr/Ca(Au \times Al_{1-x})_{12}$. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021, 647, 41-52.	0.6	1
4	Uncovering new transition metal Zintl phases by cation substitution: the crystal chemistry of Ca_3CuGe_3 and $Ca_{2+n}Mn_xAg_{2x+z}Ge_{2+n}Z$ ($x = 3, 4$). <i>CrystEngComm</i> , 2021, 23, 2711-2722.	1.3	0
5	How to Look for Compounds: Predictive Screening and in-situ Studies in $NaZnBi$ System. <i>Chemistry - A European Journal</i> , 2021, 27, 15954-15966.	1.7	4
6	Third time's the charm: intricate non-centrosymmetric polymorphism in $LnSi_3$ ($Ln = La$ and Ce) induced by distortions of phosphorus square layers. <i>Dalton Transactions</i> , 2021, 50, 6463-6476.	1.6	15
7	Theoretical investigations of hydrogen absorption in the A15 intermetallics Ti_3Sb and Ti_3Ir . <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2021, 76, 819-826.	0.3	0
8	$\tilde{\Gamma}$ -brasses in the Mn-Zn system: An experimental and computational study. <i>Journal of Solid State Chemistry</i> , 2019, 269, 297-304.	1.4	4
9	Intermetallic Chemistry: New Advances in Humanity's Age-Old Exploration of Metals and Alloys. <i>Accounts of Chemical Research</i> , 2018, 51, 213-213.	7.6	5
10	From Quasicrystals to Crystals with Interpenetrating Icosahedra in $CaAuAl$: In Situ Variable-Temperature Transformation. <i>Journal of the American Chemical Society</i> , 2018, 140, 1337-1347.	6.6	5
11	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
12	Magnetic ordering and metal-site preference in tetragonal CrMnAs: Electronic correlation effects. <i>Journal of Computational Chemistry</i> , 2018, 39, 1585-1593.	1.5	1
13	$AAuAl$ ($A = Ca, Sc, \text{ and } Ti$): Peierls Distortion, Atomic Coloring, and Structural Competition. <i>Inorganic Chemistry</i> , 2018, 57, 4039-4049.	1.9	3
14	Polar Intermetallics $Pr_5Co_2Ge_3$ and $Pr_7Co_2Ge_4$ with Planar Hydrocarbon-Like Metal Clusters. <i>Chemistry - A European Journal</i> , 2017, 23, 10516-10521.	1.7	7
15	Crystal structure, homogeneity range and electronic structure of rhombohedral $\tilde{\Gamma}^3\text{-}Mn_5Al_8$. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2017, 232, 601-610.	0.4	9
16	Computational Design of Rare-Earth-Free Magnets with the $Ti_3Co_5B_2$ -Type Structure. <i>Chemistry of Materials</i> , 2017, 29, 2535-2541.	3.2	24
17	Packing of Russian doll clusters to form a nanometer-scale CsCl-type compound in a $CrZnSn$ complex metallic alloy. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7215-7221.	2.7	6
18	Tuning Complexity by Lithiation: A Family of Intergrowth Structures Using Condensed hypno-icosahedra in the Li-Doped $CaZn$ System. <i>Inorganic Chemistry</i> , 2016, 55, 5041-5050.	1.9	4

#	ARTICLE	IF	CITATIONS
19	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
20	Conflict between the Electronic Factors and Structure-Directing Rules in the Intergrowth Structure of $\text{Ca}_{4+x}\text{Ag}_{2+x}\text{Ge}_{4-x}$ with $x = 1/2$. <i>Crystal Growth and Design</i> , 2016, 16, 5946-5953.	1.4	3
21	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
22	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
23	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
24	Structure and Bonding of an Intergrowth Phase $\text{Ca}_7\text{Ag}_{2+x}\text{Ge}_7$ ($x = 2/3$) Featuring a Zintl-Type Polyanionic Chain. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 169-176.	1.0	6
25	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
26	On the Structure and Stability of BaAl_4 -Type Ordered Derivatives in the Sr–Au–Sn System for the 600 Å°C Section. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 375-382.	0.6	3
27	Synergistic Geometrical and Electronic Features in the Intermetallic Phases Ca_2AgM_2 , Ca_2MgM_2 , and Ca_2GaM_2 ($M = \text{Pd}, \text{Pt}$). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 1069-1079.	0.6	7
28	Influence of Valence Electron Concentration on Laves Phases: Structures and Phase Stability of Pseudo-Binary MgZn_2Pd_x . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 1486-1494.	0.6	9
29	Linear Metal Chains in $\text{Ca}_2\text{M}_2\text{X}$ ($M = \text{Pd}, \text{Pt}$; $X = \text{Al}, \text{Ge}$): Origin of the Pairwise Distortion and Its Role in the Structure Stability. <i>Chemistry of Materials</i> , 2015, 27, 304-315.	3.2	27
30	Corbett Special Issue Editorial. <i>Inorganic Chemistry</i> , 2015, 54, 705-706.	1.9	1
31	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
32	Preparation and Instability of Nanocrystalline Cuprous Nitride. <i>Inorganic Chemistry</i> , 2015, 54, 6356-6362.	1.9	22
33	Cation-Poor Complex Metallic Alloys in Ba(Eu)–Au–Al(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
34	Crystal Structure and Bonding in BaAu_5Ga_2 and $\text{AeAu}_{4+x}\text{Ga}_3$ ($\text{Ae} = \text{Ba}$ 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
35	Complex Polyanionic Nets in $\text{RbAu}_{4.01(2)}\text{Ga}_{8.64(5)}$ and CsAu_5Ga_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
36	MgAuGa and MgAu_2Ga : first representatives of the Mg–Au–Ga system. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2014, 70, 355-358.	0.2	1

#	ARTICLE	IF	CITATIONS
37	High-Temperature Thermoelectric Properties of the Solid Solution Zintl Phase $\text{Eu}_{11}\text{Cd}_6\text{Sb}_{12}\text{As}_x$ ($x < 1$). <i>Journal of Applied Physics</i> , 2014, 115, 074314.	3.2	32
38	Turning Gold into "Diamond": A Family of Hexagonal Diamond-Type Au-Frameworks Interconnected by Triangular Clusters in the SrAl_2Au System. <i>Journal of the American Chemical Society</i> , 2014, 136, 3108-3117.	6.6	29
39	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
40	Ordered BaAl_4 -Type Variants in the $\text{BaAu}_x\text{Sn}_4-x$ System: A Unified View on Their Phase Stabilities versus Valence Electron Counts. <i>Inorganic Chemistry</i> , 2014, 53, 5875-5877.	1.9	12
41	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
42	Scaffolds of magnetically active 3d metals in the valence electron controlled borides $\text{Ti}_9\text{M}_2\text{Ru}_8\text{B}_8$ ($\text{M}=\text{CrNi}$; $x=0.5$): Structural, electronic and magnetic properties. <i>Journal of Solid State Chemistry</i> , 2013, 204, 283-290.	1.4	5
43	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
44	Mn -Type $\text{Co}_8\text{Zn}_{12}$ as a Defect Cubic Laves Phase: Site Preferences, Magnetism, and Electronic Structure. <i>Inorganic Chemistry</i> , 2013, 52, 9399-9408.	1.9	34
45	$\text{Na}_8\text{Au}_{9.8(4)}\text{Ga}_{7.2}$ 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
46	Electronically Induced Ferromagnetic Transitions in Sm_5Ge_4 -Type Magnetoresponse Phases. <i>Physical Review Letters</i> , 2013, 110, 077204.	2.9	12
47	Rhombohedrally Distorted $\text{Au}_5\text{Zn}_{8+y}$ Phases in the AuZn System. <i>Inorganic Chemistry</i> , 2013, 52, 1328-1337.	1.9	12
48	Magnetic Ordering in Tetragonal 3d Metal Arsenides M_2As ($\text{M} = \text{Cr, Mn, Fe}$): An Ab Initio Investigation. <i>Inorganic Chemistry</i> , 2013, 52, 3013-3021.	1.9	8
49	The $\text{Y}_5\text{Mg}_{24+(1.08(4))}$ series and a ternary derivative $\text{Ce}_6.9\text{Y}_{12.5(7)}\text{Mg}_{92.2}$: A comparison of their crystal and electronic structures. <i>Journal of Solid State Chemistry</i> , 2013, 204, 170-177.	1.4	8
50	Gold's Structural Versatility within Complex Intermetallics: From Hume-Rothery to Zintl and even Quasicrystals. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1517, 1.	0.1	5
51	Magnetic field effects on transport properties of PtSn_4 . <i>Physical Review B</i> , 2012, 85, .	1.1	141
52	$\text{R}_3\text{Au}_2\text{Ga}_2$: A Sodium-Containing Quasicrystal: Using Gold To Enhance Sodium's Covalency in Intermetallic Compounds (<i>Angew. Chem.</i> 51/2012). <i>Angewandte Chemie</i> , 2012, 124, 13072-13072.	1.6	0
53	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
54	Atomic site preferences and its effect on magnetic structure in the intermetallic borides $\text{M}_2\text{Fe}(\text{Ru}_{0.8}\text{Ti}_{0.2})_5\text{B}_2$ ($\text{M}=\text{Sc, Ti, Zr}$; $\text{T}=\text{Ru, Rh, Ir}$). <i>Journal of Solid State Chemistry</i> , 2012, 196, 168-174.	1.4	8

#	ARTICLE	IF	CITATIONS
55	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
56	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
57	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
58	C-H Insertion Catalyzed by Tetratolylporphyrinato Methyliridium via a Metal-Carbene Intermediate. <i>Organometallics</i> , 2012, 31, 5586-5590.	1.1	30
59	Revisiting the Zintl-Klemm Concept: Alkali Metal Trielides. <i>Inorganic Chemistry</i> , 2011, 50, 7625-7636.	1.9	38
60	Zn ₁₃ (Cr ₂₇ (Al ₁) ₂₇ (=) ₂₇) ₂₇ Tj ETQq0 0 0 Kristallographie, 2011, 226, 557-567.	1.1	4
61	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
62	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
63	Chemical Pressure and Rare-Earth Orbital Contributions in Mixed Rare-Earth Silicides La ₅ Y ₄ Si ₄ (0 ≤ x ≤ 5). <i>Inorganic Chemistry</i> , 2011, 50, 12714-12723.	1.9	14
64	Crystal Structures and Stabilities of β_1 and β_2 Brass Phases in Pd ₂ Au _x Zn ₁₁ (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
65	Revisiting the Zintl-Klemm Concept: A ₂ AuBi (A = Li or Na). <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 3989-3998.	1.0	14
66	Quantitative Advances in the Zintl-Klemm Formalism. <i>Structure and Bonding</i> , 2011, , 1-55.	1.0	54
67	On the Structural Chemistry of β -Brasses: Two Different Interpenetrating Networks in Ternary F-Cell Pd-Zn-Al Phases. <i>Chemistry - A European Journal</i> , 2010, 16, 5461-5471.	1.7	23
68	EuAg ₁₁ 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
69	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
70	Rhombohedrally Distorted β -Brasses Cr ₁ xFe _x Ga. <i>Inorganic Chemistry</i> , 2010, 49, 11505-11515.	1.9	10
71	Structural and Magnetic Characteristics of Gd ₅ Ga _x Si ₄ x. <i>Inorganic Chemistry</i> , 2010, 49, 4586-4593.	1.9	17
72	Pd _{2.28} (1)Zn _{10.37} (1)Al _{0.35} (1), a ternary β -brass-type structure. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, i5-i5.	0.2	8

#	ARTICLE	IF	CITATIONS
73	On the Crystal Structure, Metal Atom Site Preferences and Magnetic Properties of Nd _{5-x} Er _x Tt ₄ (Tt= Si) Tj ETQq1 1 0.784314 18	0.6	18
74	Vacancies and Insertions in the RE ₁₀ Ni _{9+x} In ₂₀ Series (RE = Ho, Tm, Lu) Å. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2009, 635, 1831-1839.	0.6	7
75	Structure-composition sensitivity in Metallic-Zintl phases: A study of Eu(Ga _{1-x} Ttx) ₂ (Tt=Si, Ge,) Tj ETQq1 1 0.784314 14	1.4	14
76	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
77	Structural, magnetic, and thermal characteristics of the phase transitions in Gd ₅ GaxGe _{4-x} magnetocaloric materials. Journal of Solid State Chemistry, 2009, 182, 3031-3040.	1.4	13
78	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. Inorganic Chemistry, 2009, 48, 6573-6583.	1.9	45
79	Theoretical Interpretation of the Structural Variations along the Eu(Zn _{1-x} Gex) ₂ (0 ≤ x ≤ 1) Series. Inorganic Chemistry, 2009, 48, 6391-6401.	1.9	12
80	EuAg _x Al _{11-x} with the BaCd ₁₁ -Type Structure: Phase Width, Coloring, and Electronic Structure. Chemistry of Materials, 2009, 21, 230-236.	3.2	13
81	To What Extent Does the Zintl-Klemm Formalism Work? The Eu(Zn _{1-x} Gex) ₂ Series. Inorganic Chemistry, 2009, 48, 6380-6390.	1.9	13
82	Structure Determination of Two Modulated \hat{I}^3 -Brass Structures in the Zn-Pd System through a (3 +) Tj ETQq0 0 0 19	1.9	19
83	Gd ₅ Si _{4-x} Px: Targeted Structural Changes through Increase in Valence Electron Count. Journal of the American Chemical Society, 2009, 131, 2367-2374.	6.6	35
84	Phase Width and Site Preferences in the EuMg _x Ga _{4-x} Series. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2008, 634, 2845-2852.	0.6	11
85	Relation between chemical bonding and exchange coupling approaches to the description of ordering in itinerant magnets. Journal of Computational Chemistry, 2008, 29, 2177-2186.	1.5	16
86	On the coloring problem in YMgZn and related phases. Inorganica Chimica Acta, 2008, 361, 3053-3062.	1.2	14
87	An Application of the Coloring Problem to Structure-Composition-Bonding Relationships in the Magnetocaloric Materials LaFe _{13-x} Si _x . Inorganic Chemistry, 2008, 47, 515-528.	1.9	53
88	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. Inorganic Chemistry, 2008, 47, 2113-2120.	1.9	44
89	Gd _{5-x} Y _x Tt ₄ (Tt = Si or Ge): Effect of Metal Substitution on Structure, Bonding, and Magnetism. Journal of the American Chemical Society, 2008, 130, 13900-13911.	6.6	60
90	Electronic structure, chemical bonding, and magnetic properties in the intermetallic series Sc ₂		

#	ARTICLE	IF	CITATIONS
91	Atomic Distributions in the \hat{I}^3 -Brass Structure of the Cu $\hat{\sim}$ Zn System: A Structural and Theoretical Study. <i>Inorganic Chemistry</i> , 2007, 46, 251-260.	1.9	79
92	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
93	Complex rare-earth tetrelides, RE ₅ (SixGe _{1$\hat{\sim}$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
94	Intergrowth Compounds in the Zn-Rich Zn $\hat{\sim}$ Pd System: Toward 1D Quasicrystal Approximants. <i>Chemistry of Materials</i> , 2006, 18, 1848-1856.	3.2	35
95	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
96	On the distribution of tetrelide atoms (Si, Ge) in Gd ₅ (SixGe _{1$\hat{\sim}$x}) ₄ . <i>Journal of Solid State Chemistry</i> , 2006, 179, 2290-2297.	1.4	17
97	A New Superstructure for the BaAl ₄ -Structure Type: An Experimental and Theoretical Study of La ₂ NiAl ₇ . <i>Chemistry of Materials</i> , 2005, 17, 3661-3667.	3.2	26
98	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
99	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
100	Crystallographic, Electronic, and Magnetic Studies of \hat{I}^2 -GaM (M = Cr, Mn or Fe): Trends in Itinerant Magnetism. <i>Inorganic Chemistry</i> , 2004, 43, 3210-3218.	1.9	27
101	Composition $\hat{\sim}$ Structure Relationships in Polar Intermetallics: 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
102	Title is missing!. <i>Journal of Mathematical Chemistry</i> , 2003, 33, 55-79.	0.7	14
103	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
104	Ba ₁₄ Zn _{5$\hat{\sim}$x} Al _{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
105	Crystallographic, electronic and magnetic studies of Ce ₄ Ni ₆ Al ₂₃ : a new ternary intermetallic compound in the cerium $\hat{\sim}$ nickel $\hat{\sim}$ aluminum phase diagram. <i>Journal of Solid State Chemistry</i> , 2003, 174, 471-481.	1.4	19
106	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
107	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
108	Nanoscale Zippers in the Crystalline Solid. Structural Variations in the Giant Magnetocaloric Material Gd ₅ Si _{1.5} Ge _{2.5} . <i>Chemistry of Materials</i> , 2003, 15, 1413-1419.	3.2	39

#	ARTICLE	IF	CITATIONS
109	â€œNanoscale Zippersâ€ in $Gd_5(SixGe_{1-x})_4$: Symmetry and Chemical Influences on the Nanoscale Zipping Action. <i>Inorganic Chemistry</i> , 2003, 42, 8223-8229.	1.9	33
110	The s^2p 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
111	Microstructural analysis of twinned $Gd_5Si_2Ge_2$. <i>Physical Review B</i> , 2002, 66, .	1.1	26
112	Structure and bonding consequences in the pseudo-binary system Ln_5Si_3Mx ($Ln=La, Ce$ or Nd ; $M=Ni$)	2.8	9
113	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
114	Crystal structure and magnetism of Gd_2MgGe_2 . <i>Journal of Alloys and Compounds</i> , 2001, 329, 121-130.	2.8	65
115	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
116	$Li_{10}Mg_6Zn_{31}Al_3$: A New Intermetallic Phase Containing Building Blocks for Decagonal Quasicrystals. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 4740-4742.	7.2	9
117	Where are the Atoms in Quasicrystals? Experimental and Theoretical Studies of Ternary and Quaternary Approximants. <i>Materials Research Society Symposia Proceedings</i> , 2000, 643, 311.	0.1	0
118	Introducing Proper Chemical Hygiene and Safety in the General Chemistry Curriculum. <i>Journal of Chemical Education</i> , 2000, 77, 1185.	1.1	18
119	Where Are the Elements in Complex Aluminides? An Experimental and Theoretical Investigation of the Quasicrystalline Approximants, $Mg_{2-y}(Zn_xAl_{1-x})_{3+y}$. <i>Journal of the American Chemical Society</i> , 2000, 122, 4937-4947.	6.6	43
120	A Pictorial Approach to Molecular Orbital Bonding in Polymers: Non-Mathematical but Honest. <i>Journal of Chemical Education</i> , 1999, 76, 428.	1.1	3
121	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
122	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
123	Safety in the Chemistry Curriculum at Iowa State University. <i>ACS Symposium Series</i> , 1998, , 101-109.	0.5	1
124	$Ln_3Au_2Al_9$ ($Ln \frac{1}{4} Dy, Tb$): Heteronuclear versus Homonuclear Bonding in Intermetallic Phases. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 2008-2101.	4.4	18
125	$Ln_3Au_2Al_9$ ($Ln = Dy, Tb$): heteronucleare versus homonucleare Bindung in intermetallischen Phasen. <i>Angewandte Chemie</i> , 1997, 109, 2098-2101.	1.6	4
126	Electronic structure, superconductivity, and substitution patterns in Tl_5Te_3 . <i>Journal of Alloys and Compounds</i> , 1996, 241, 51-62.	2.8	19

#	ARTICLE	IF	CITATIONS
127	Novel Tantalum Chalcogenide Halides: The First Ta ₃ Clusters in the Solid State. Journal of the American Chemical Society, 1996, 118, 12238-12239.	6.6	21
128	Chemistry and properties of novel niobium cluster compounds. Journal of Alloys and Compounds, 1995, 229, 93-106.	2.8	36
129	Ternary Metal-Rich Phosphides: Structure, Bonding, and Site Preferences in ZrNbP and Hf _{1+x} Mo _{1-x} P. Inorganic Chemistry, 1995, 34, 2962-2968.	1.9	22
130	Solid state chemistry of Nb ₃ Cl ₈ : Nb ₃ TeCl ₇ , mixed crystal formation, and intercalation. Journal of Alloys and Compounds, 1995, 217, 5-12.	2.8	22
131	Small Molecules Stabilized in Inorganic Frameworks: Nb ₅ Monomers in the Novel Layered Compound Nb ₇ S ₂ I ₁₉ . Angewandte Chemie International Edition in English, 1994, 33, 334-336.	4.4	15
132	In anorganischen Festkörpern stabilisierte kleine Moleküle: Nb ₅ -Monomere in der neuartigen Schichtverbindung Nb ₇ S ₂ I ₁₉ . Angewandte Chemie, 1994, 106, 357-359.	1.6	7
133	A covalent view of chemical bonding in Laves phases Ca _{1-x} Al _{2-x} . Journal of Alloys and Compounds, 1993, 197, 109-121.	2.8	66
134	The structural phase transition in calcium-aluminum compound (CaAl ₄): a concerted application of Landau theory and energy band theory. Journal of the American Chemical Society, 1993, 115, 3739-3745.	6.6	32
135	Crystal structure and electronic structure of Nb _x Ta _{2-x} S (x ≈ 0.95): A new layered compound in ternary Ta-Nb-S system. Journal of Alloys and Compounds, 1992, 183, 7-17.	2.8	40
136	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. Chemistry of Materials, 1990, 2, 12-26.	3.2	114