

Peter Franz Rogl

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215
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221
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ext. citations

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avg. IF

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L-index

#	Paper	IF	Citations
215	n-Type skutterudites $(R,Ba,Yb)_yCo_4Sb_{12}$ ($R=Sr, La, Mm, DD, SrMm, SrDD$) approaching $ZT=0.0$. <i>Acta Materialia</i> , 2014 , 63, 30-43	8.4	215
214	Mechanical properties of half-Heusler alloys. <i>Acta Materialia</i> , 2016 , 107, 178-195	8.4	171
213	Thermoelectric high ZT half-Heusler alloys $Ti_{1-x}Zr_xHf_yNiSn$ ($0 \leq x \leq 1$; $0 \leq y \leq 1$). <i>Acta Materialia</i> , 2016 , 104, 210-222	8.4	143
212	In-doped multifilled n-type skutterudites with $ZT=1.8$. <i>Acta Materialia</i> , 2015 , 95, 201-211	8.4	114
211	High-pressure torsion, a new processing route for thermoelectrics of high ZTs by means of severe plastic deformation. <i>Acta Materialia</i> , 2012 , 60, 2146-2157	8.4	107
210	Thermoelectric properties of novel skutterudites with didymium: $DDy(Fe_{1-x}Co_x)_4Sb_{12}$ and $DDy(Fe_{1-x}Ni_x)_4Sb_{12}$. <i>Intermetallics</i> , 2010 , 18, 57-64	3.5	106
209	A new generation of p-type didymium skutterudites with high ZT. <i>Intermetallics</i> , 2011 , 19, 546-555	3.5	104
208	Unconventional superconducting phase in the weakly correlated noncentrosymmetric Mo_3Al_2C compound. <i>Physical Review B</i> , 2010 , 82,	3.3	102
207	(V,Nb)-doped half Heusler alloys based on $\{Ti,Zr,Hf\}NiSn$ with high ZT. <i>Acta Materialia</i> , 2017 , 131, 336-348.	4	97
206	Mechanical Properties of Skutterudites. <i>Science of Advanced Materials</i> , 2011 , 3, 517-538	2.3	90
205	Nanostructuring of p- and n-type skutterudites reaching figures of merit of approximately 1.3 and 1.6, respectively. <i>Acta Materialia</i> , 2014 , 76, 434-448	8.4	85
204	New bulk p-type skutterudites $DD_0.7Fe_{2.7}Co_{1.3}Sb_{12}X$ ($X = Ge, Sn$) reaching $ZT > 1.3$. <i>Acta Materialia</i> , 2015 , 91, 227-238	8.4	84
203	Mechanical properties of filled antimonide skutterudites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010 , 170, 26-31	3.1	83
202	Multifilled nanocrystalline p-type didymium skutterudites with $ZT > 1.2$. <i>Intermetallics</i> , 2010 , 18, 2435-2444	3.4	80
201	Concepts for medium-high to high temperature thermoelectric heat-to-electricity conversion: a review of selected materials and basic considerations of module design. <i>Translational Materials Research</i> , 2015 , 2, 025001		77
200	The ternary system $AlNiTi$ Part I: Isothermal section at $900^\circ C$; Experimental investigation and thermodynamic calculation. <i>Intermetallics</i> , 1999 , 7, 1337-1345	3.5	74
199	Thermal expansion of skutterudites. <i>Journal of Applied Physics</i> , 2010 , 107, 043507	2.5	66

198	Effect of HPT processing on the structure, thermoelectric and mechanical properties of Sr _{0.07} Ba _{0.07} Yb _{0.07} Co ₄ Sb ₁₂ . <i>Journal of Alloys and Compounds</i> , 2012 , 537, 183-189	5.7	63
197	MmFe ₄ Sb ₁₂ - and CoSb ₃ -based nano-skutterudites prepared by ball milling: Kinetics of formation and transport properties. <i>Journal of Alloys and Compounds</i> , 2009 , 481, 106-115	5.7	59
196	How nanoparticles can change the figure of merit, ZT, and mechanical properties of skutterudites. <i>Materials Today Physics</i> , 2017 , 3, 48-69	8	57
195	Bulk Nanostructured Functional Materials By Severe Plastic Deformation. <i>Advanced Engineering Materials</i> , 2010 , 12, 692-700	3.5	53
194	Dependence of thermoelectric behaviour on severe plastic deformation parameters: A case study on p-type skutterudite DD _{0.60} Fe ₃ CoSb ₁₂ . <i>Acta Materialia</i> , 2013 , 61, 6778-6789	8.4	51
193	Computational and experimental study of phase stability, cohesive properties, magnetism and electronic structure of TiMn ₂ . <i>Acta Materialia</i> , 2003 , 51, 1239-1247	8.4	49
192	Thermoelectric properties of p-type didymium (DD) based skutterudites DDy(Fe _{1-x} Nix) ₄ Sb ₁₂ (0.13 ≤ x ≤ 0.25, 0.46 ≤ y ≤ 0.68). <i>Journal of Alloys and Compounds</i> , 2012 , 537, 242-249	5.7	47
191	Phase equilibria, formation, crystal and electronic structure of ternary compounds in Ti _{1-x} Ni _x Sb and Ti _{1-x} Ni _x B ternary systems. <i>Journal of Solid State Chemistry</i> , 2013 , 197, 103-112	3.3	46
190	Impact of high pressure torsion on the microstructure and physical properties of Pr _{0.67} Fe ₃ CoSb ₁₂ , Pr _{0.71} Fe _{3.5} Ni _{0.5} Sb ₁₂ , and Ba _{0.06} Co ₄ Sb ₁₂ . <i>Journal of Alloys and Compounds</i> , 2010 , 494, 78-83	5.7	46
189	Thermoelectric properties of Fe _{0.2} Co _{3.8} Sb _{12-x} Tex skutterudites. <i>Acta Materialia</i> , 2013 , 61, 6698-6711	8.4	45
188	Thermoelectric performance of mischmetal skutterudites MmyFe _{4-x} CoxSb ₁₂ at elevated temperatures. <i>Journal of Alloys and Compounds</i> , 2010 , 490, 19-25	5.7	45
187	On the Half-Heusler compounds Nb _{1-x} {Ti,Zr,Hf} _x FeSb: Phase relations, thermoelectric properties at low and high temperature, and mechanical properties. <i>Acta Materialia</i> , 2017 , 135, 263-276	8.4	44
186	Studies of the (Sc, Zr, Hf)-(Rh, Ir)-b systems. <i>Journal of the Less Common Metals</i> , 1979 , 67, 41-50		43
185	Lattice dynamics of skutterudites: Inelastic x-ray scattering on CoSb ₃ . <i>Physical Review B</i> , 2008 , 77,	3.3	40
184	Peculiarities of structural disorder in Zr- and Hf-containing Heusler and half-Heusler stannides. <i>Intermetallics</i> , 2013 , 35, 45-52	3.5	39
183	Thermoelectric properties of ternary transition metal antimonides. <i>Journal of Alloys and Compounds</i> , 2000 , 296, 235-242	5.7	39
182	Skutterudites: Thermoelectric Materials for Automotive Applications?. <i>Journal of Electronic Materials</i> , 2010 , 39, 2074-2078	1.9	38
181	On the constitution and thermodynamic modelling of the system Ti _{1-x} Ni _x Sb. <i>RSC Advances</i> , 2015 , 5, 92270-92291	3.7	37

180	In y Co ₄ Sb ₁₂ Skutterudite: Phase Equilibria and Crystal Structure. <i>Journal of Electronic Materials</i> , 2013 , 42, 2940-2952	1.9	37
179	The clathrate Ba ₈ Cu _x Ge ₄₆ □ ₂ y: Phase equilibria and crystal structure. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 1754-1760	3.3	37
178	Crystal chemistry and thermoelectric properties of clathrates with rare-earth substitution. <i>Physica B: Condensed Matter</i> , 2003 , 328, 44-48	2.8	36
177	Thermoelectric properties of chalcogenide based Cu _{2+x} ZnSn _{1-x} Se ₄ . <i>AIP Advances</i> , 2013 , 3, 032106	1.5	35
176	Thermal expansion of thermoelectric type-I-clathrates. <i>Journal of Applied Physics</i> , 2010 , 108, 043529	2.5	35
175	Superconductivity and spin fluctuations in {Th,U}Pt ₄ Ge ₁₂ skutterudites. <i>Physical Review B</i> , 2008 , 78,	3.3	35
174	Phase equilibria, crystal chemistry, electronic structure and physical properties of AgBa ₈ Ge ₄₆ clathrates. <i>Acta Materialia</i> , 2011 , 59, 2368-2384	8.4	34
173	Structural and physical properties of n-type skutterudite Ca _{0.07} Ba _{0.23} Co _{3.95} Ni _{0.05} Sb ₁₂ . <i>Intermetallics</i> , 2010 , 18, 394-398	3.5	33
172	Thermoelectric properties of Ba-Cu-Si clathrates. <i>Physical Review B</i> , 2012 , 85,	3.3	32
171	Structural chemistry of ternary metal borides. <i>Journal of the Less Common Metals</i> , 1978 , 61, 39-45		32
170	Half-Heusler alloys: Enhancement of ZT after severe plastic deformation (ultra-low thermal conductivity). <i>Acta Materialia</i> , 2020 , 183, 285-300	8.4	32
169	Structure and Physical Properties of Clathrate I Systems Ba ₈ Pd _x Si _{46-x} and Ba ₈ Pt _x Si _{46-x} . <i>Journal of the Physical Society of Japan</i> , 2008 , 77, 54-60	1.5	31
168	Formation and crystal chemistry of cubic ternary phases with filled Th ₆ Mn ₂₃ -type and AuCu ₃ -type in the systems Ti _{1-x} M _x VIII _{1-x} Al. <i>Intermetallics</i> , 2004 , 12, 563-577	3.5	30
167	Ba-Cu-Si Clathrates: Phase Equilibria and Crystal Chemistry. <i>Journal of Electronic Materials</i> , 2010 , 39, 1634-1639	1.9	28
166	Structural and thermoelectric properties of Ba ₈ Cu ₅ Si _x Ge _{41-x} clathrates. <i>Physical Review B</i> , 2013 , 87,	3.3	26
165	Changes in microstructure and physical properties of skutterudites after severe plastic deformation. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 3715-22	3.6	26
164	The half Heusler system TiFeSb-TiCoSb with Sb/Sn substitution: phase relations, crystal structures and thermoelectric properties. <i>Dalton Transactions</i> , 2018 , 47, 879-897	4.3	26
163	Magnetism and crystal chemistry in REFe ₁₂ □ ₂ Gax (RE=Y,Ce,Pr,Nd,Sm,Gd,Tb,Dy,Ho,Er,Tm,Yb,Lu and MM=mischmetal) and (Zr,Pr) (Fe _{1-x} Co _x) ₁₂ □ ₂ Gay. <i>Journal of Applied Physics</i> , 1990 , 68, 3512-3517	2.5	25

162	The ternary system AuBaBi: Clathrate solution, electronic structure, physical properties, phase equilibria and crystal structures. <i>Acta Materialia</i> , 2012 , 60, 2324-2336	8.4	23
161	Direct SPD-processing to achieve high-ZT skutterudites. <i>Acta Materialia</i> , 2018 , 159, 352-363	8.4	22
160	The effect of multisubstitution on the thermoelectric properties of chalcogenide-based $\text{Cu}_{2.1}\text{Zn}_{0.9}\text{Sn}_{1-x}\text{In}_x\text{Se}_4$ (0 \leq x \leq 1). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013 , 210, 2471-2478	1.6	22
159	Crystal Structure of W_{1-x}B_3 and Phase Equilibria in the Boron-Rich Part of the Systems Mo-Rh-B and W-{Ru,Os,Rh,Ir,Ni,Pd,Pt}-B. <i>Journal of Phase Equilibria and Diffusion</i> , 2014 , 35, 384-395	1	21
158	Absence of time-reversal symmetry breaking in the noncentrosymmetric superconductor $\text{Mo}_3\text{Al}_2\text{C}$. <i>Physical Review B</i> , 2014 , 90,	3.3	21
157	Phase Equilibria, Crystal Chemistry and Physical Properties of Au-Ba-Ge Clathrates. <i>Journal of Phase Equilibria and Diffusion</i> , 2011 , 32, 115-127	1	21
156	Critical assessment and thermodynamic calculation of the ternary system C-Hf-Zr (Carbon-Zirconium-Hafnium). <i>Journal of Phase Equilibria and Diffusion</i> , 2002 , 23, 218-235		21
155	Über den Aufschmelzmodus in den β -Phasen. <i>Monatshefte für Chemie</i> , 1977 , 108, 1167-1180	1.4	21
154	Crystal structure of novel Ni-Zn borides: first observation of a boron-metal nested cage unit: B_2ONi_6 . <i>Inorganic Chemistry</i> , 2011 , 50, 7669-75	5.1	19
153	Enhanced Thermoelectric Figure of Merit in P-Type $\text{DDy}(\text{Fe}_{1-x}\text{Co}_x)_4\text{Sb}_{12}$. <i>Solid State Phenomena</i> , 2011 , 170, 240-243	0.4	19
152	Ternary metal boron carbides. <i>International Journal of Refractory Metals and Hard Materials</i> , 1999 , 17, 27-32	4.1	19
151	Thermoelectric properties of PbTe with encapsulated bismuth secondary phase. <i>Journal of Applied Physics</i> , 2013 , 113, 123707	2.5	18
150	Formation of clathrates BaMGe (M = Mn, Fe, Co). <i>International Journal of Materials Research</i> , 2009 , 100, 189-202	0.5	18
149	Constitution of the ternary system Al-Ru-Ti (Aluminum-Ruthenium-Titanium). <i>Journal of Phase Equilibria and Diffusion</i> , 2003 , 24, 511-527		18
148	Phase equilibria and magnetism in the MoBi_2 system. <i>Journal of Nuclear Materials</i> , 2001 , 288, 66-75	3.3	18
147	Phase relations in the Al-rich corner of the TiNiAl system. <i>Journal of Alloys and Compounds</i> , 2001 , 317-318, 379-384	5.7	18
146	Existence and Crystal Chemistry of Borides. <i>Inorganic Reactions and Methods</i> , 85-98		18
145	The Effect of Severe Plastic Deformation on Thermoelectric Performance of Skutterudites, Half-Heuslers and Bi-Tellurides. <i>Materials Transactions</i> , 2019 , 60, 2071-2085	1.3	17

- 144 Constitution of the systems {V,Nb,Ta}-Sb and physical properties of di-antimonides {V,Nb,Ta}Sb₂. *Intermetallics*, **2015**, 65, 94-110 3.5 17
- 143 On the constitution and thermodynamic modelling of the system Zr-Ni-Sn. *Journal of Alloys and Compounds*, **2018**, 742, 1058-1082 5.7 17
- 142 Suppression of vacancies boosts thermoelectric performance in type-I clathrates. *Journal of Materials Chemistry A*, **2018**, 6, 1727-1735 13 17
- 141 Tuning of band gap and thermoelectric properties of type-I clathrate Ba₈Ni_xZn_yGe₄₆Sn_z. *Journal of Alloys and Compounds*, **2013**, 567, 65-72 5.7 17
- 140 Peculiarities of thermoelectric half-Heusler phase formation in Gd-Ni-Sb and Lu-Ni-Sb ternary systems. *Journal of Solid State Chemistry*, **2016**, 239, 145-152 3.3 17
- 139 Effect of Fe alloying on the thermoelectric performance of Cu₂Te. *Journal of Alloys and Compounds*, **2020**, 817, 152729 5.7 17
- 138 Sustainable and simple processing technique for n-type skutterudites with high ZT and their analysis. *Acta Materialia*, **2019**, 173, 9-19 8.4 16
- 137 Crystal structures and constitution of the binary system iridium-boron. *Science China Materials*, **2015**, 58, 649-668 7.1 16
- 136 Influence of filler element and Ni-substitution on thermoelectric properties of multi-filled skutterudites. *Journal of Alloys and Compounds*, **2010**, 504, 53-59 5.7 16
- 135 Laves phases in the ternary systems Ti(Pd, Pt)Al. *Intermetallics*, **2009**, 17, 336-342 3.5 16
- 134 Crystal structure, phase stability and elastic properties of the Laves phase ZrTiCu₂. *Intermetallics*, **2008**, 16, 651-657 3.5 16
- 133 Superconductivity and Magnetism in MPt₄Ge₁₂, M = Ca, Ba, Sr, Eu. *Journal of the Physical Society of Japan*, **2008**, 77, 121-127 1.5 16
- 132 The crystal structure of Sc₂Ru₅B₄. *Journal of Solid State Chemistry*, **1984**, 55, 262-269 3.3 16
- 131 Phase equilibria in systems CeM₃B₅ (M=Si, Ge, Sn) and superstructure Ce₁₂Ge₉Sb_{23+x} (x=3.8±0.1). *Journal of Solid State Chemistry*, **2009**, 182, 645-656 3.3 15
- 130 On phase equilibria and crystal structures in the systems CePd₅B₅ and YbPd₅B₅. Physical properties of R₂Pd_{13.6}B₅ (R=Yb, Lu). *Journal of Solid State Chemistry*, **2010**, 183, 1013-1037 3.3 15
- 129 The Heusler Phase Ti₂₅(Fe₅₀ ± Ni_x)Al₂₅ (0 ≤ x ≤ 50); Structure and Constitution. *Journal of Phase Equilibria and Diffusion*, **2008**, 29, 500-508 1 15
- 128 Crystal structure and physical properties of quaternary clathrates Ba₈Zn_xGe₄₆Si_y, Ba₈(Zn,Cu)_xGe₄₆ and Ba₈(Zn,Pd)_xGe₄₆. *Journal of Solid State Chemistry*, **2010**, 183, 2329-2342 3.3 14
- 127 Constitution, structural chemistry, and magnetism of the ternary system Ce-Ag-Ge. *Journal of Phase Equilibria and Diffusion*, **1999**, 20, 407-422 14

126	Effect of High-Pressure Torsion on Texture, Microstructure, and Raman Spectroscopy: Case Study of Fe- and Te-Substituted CoSb ₃ . <i>Journal of Electronic Materials</i> , 2014 , 43, 3817-3823	1.9	13
125	High-Pressure Torsion to Improve Thermoelectric Efficiency of Clathrates?. <i>Journal of Electronic Materials</i> , 2013 , 42, 1330-1334	1.9	13
124	Clathrate formation in the systems Ba ₁₀ Te and Ba-(Rh, Ir)-Si: Crystal chemistry and phase relations. <i>Intermetallics</i> , 2013 , 36, 61-72	3.5	13
123	Features of a priori heavy doping of the n-TiNiSn intermetallic semiconductor. <i>Semiconductors</i> , 2011 , 45, 850-856	0.7	13
122	Single-Crystal Investigations on Quaternary Clathrates Ba ₈ Cu ₅ Si _x Ge _{41-x} (x = 6, 18, 41). <i>Journal of Electronic Materials</i> , 2011 , 40, 589-596	1.9	13
121	Thermoelectric and magnetic properties of nanocrystalline La _{0.7} Sr _{0.3} CoO ₃ . <i>Journal of Applied Physics</i> , 2012 , 111, 063722	2.5	13
120	Severe Plastic Deformation, A Tool to Enhance Thermoelectric Performance. <i>Springer Series in Materials Science</i> , 2013 , 193-254	0.9	13
119	Study of thermal stability of CoSb ₃ skutterudite by Knudsen effusion mass spectrometry. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2019 , 65, 1-7	1.9	13
118	The ternary system cerium-palladium-silicon. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 2497-2509	3.3	12
117	Structural, thermodynamic, and transport properties of Laves-phase ZrMn ₂ from x-ray and neutron diffraction and first principles. <i>Physical Review B</i> , 2006 , 74,	3.3	12
116	The niobium-silicon-uranium system. <i>Journal of Nuclear Materials</i> , 2000 , 277, 82-90	3.3	12
115	Constitution, structural chemistry and magnetism in the ternary system Ce-Ag-Bi. <i>Journal of Alloys and Compounds</i> , 2001 , 320, 308-319	5.7	12
114	Magnetism and structural chemistry of ternary borides RE ₂ MB ₆ (RE = rare earth, M = Ru, Os). <i>Journal of Solid State Chemistry</i> , 1984 , 54, 414-420	3.3	12
113	The Ti-Mn system revisited: experimental investigation and thermodynamic modelling. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 23326-39	3.6	12
112	Thermoelectric properties of CoSb with BiTe nanoinclusions. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 095701	1.8	11
111	Ab initio study of structural, magnetic, vibrational, and thermodynamic properties of the Laves-phase compound HfMn ₂ . <i>Physical Review B</i> , 2007 , 76,	3.3	11
110	The ternary system: silicon-titanium-uranium. <i>Journal of Alloys and Compounds</i> , 2003 , 350, 155-159	5.7	11
109	REPt ₃ Si (RE = La, Pr, Nd, Sm and Gd): isotypes of the heavy fermion superconductor CePt ₃ Si. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, 1877-1888	1.8	11

108	The antimony-iron-zirconium (Sb-Fe-Zr) system. <i>Journal of Phase Equilibria and Diffusion</i> , 1999 , 20, 497-507		11
107	The antimony-iron-niobium (Sb-Fe-Nb) system. <i>Journal of Phase Equilibria and Diffusion</i> , 1999 , 20, 113-118		11
106	Magnetic structures of $U_3M_2M_3$, $M=Al, Ga$; $M'=Si, Ge$: a neutron powder diffraction study. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 191, 291-300	2.8	11
105	The system $CeZnB$ at 800°C. <i>Journal of Solid State Chemistry</i> , 2011 , 184, 2840-2848	3.3	10
104	Crystal chemistry of the G-phases in the $\{Ti, Zr, Hf\}Ni_3Bi$ systems. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 733-741	3.3	10
103	Ab initio study of structural stability, elastic, vibrational, and electronic properties of $TiPd_2$. <i>Physical Review B</i> , 2007 , 76,	3.3	10
102	The ternary system: hafnium-silicon-uranium. <i>Journal of Alloys and Compounds</i> , 2005 , 387, 246-250	5.7	10
101	A Mössbauer study of $R_6Fe_{13}X$ ($R=Pr, Nd$; $X=In, Sn, Tl, Pb, Cu, Ag, Au$). <i>Hyperfine Interactions</i> , 1994 , 94, 1915-1920	0.8	10
100	The tau-borides $[Fe_{0.54}Ir_{0.46}]_{20}Fe_3B_6$ and $[Co_{0.64}Ir_{0.36}]_{21}Co_{0.16}B_4B_6$. <i>Intermetallics</i> , 2010 , 18, 694-701	3.5	9
99	On the four-phase reactions in the $TiNiAl$ system. <i>Intermetallics</i> , 2009 , 17, 1000-1006	3.5	9
98	Crystal chemistry of the G-phase region in the $TiCoAl$ system. <i>Intermetallics</i> , 2005 , 13, 497-509	3.5	9
97	Influence of shear strain on HPT-processed n-type skutterudites yielding $ZT=2.1$. <i>Journal of Alloys and Compounds</i> , 2021 , 855, 157409	5.7	9
96	Thermoelectric Properties of Two-Phase $PbTe$ with Indium Inclusions. <i>Journal of Electronic Materials</i> , 2014 , 43, 1630-1638	1.9	8
95	Structural and Thermoelectric Properties of $Ba_8Cu_xSi_{23-x}Ge_3$ ($4.5 \leq x \leq 7$). <i>Journal of Electronic Materials</i> , 2012 , 41, 1159-1164	1.9	8
94	Structural and physical properties diversity of new $CaCu_5$ -type related europium platinum borides. <i>Inorganic Chemistry</i> , 2013 , 52, 4185-97	5.1	8
93	The system $NdFe_5B$: Phase equilibria, crystal structures and physical properties. <i>Intermetallics</i> , 2010 , 18, 2361-2376	3.5	8
92	The B-Pu (boron-plutonium) system. <i>Journal of Phase Equilibria and Diffusion</i> , 1997 , 18, 467-473		8
91	Structural transition with loss of symmetry in $TiMAl$ based G-phases ($M=Fe$ and Co). <i>Intermetallics</i> , 2006 , 14, 784-791	3.5	8

90	Determination of structural disorder in Heusler-type phases. <i>Computational Materials Science</i> , 2020 , 172, 109307	3.2	8
89	Pt-B System Revisited: Pt ₂ B, a New Structure Type of Binary Borides. Ternary WAl ₁₂ -Type Derivative Borides. <i>Inorganic Chemistry</i> , 2015 , 54, 10958-65	5.1	7
88	Phase relations and structural features in the system Ni ₂ ZnB. <i>Journal of Solid State Chemistry</i> , 2013 , 198, 150-161	3.3	7
87	Phase equilibria and crystal structures in the system Ce ₂ ZnBi. <i>Intermetallics</i> , 2013 , 36, 118-126	3.5	7
86	Ba ₅ {V,Nb} ₁₂ Sb _{19+x} , novel variants of the Ba ₅ Ti ₁₂ Sb _{19+x} -type: crystal structure and physical properties. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 24248-61	3.6	7
85	The formation, structure and physical properties of M(2)Pd(14+x)B(5-y) compounds, with M = [La, Ce, Pr, Nd, Sm, Eu, Gd, Lu and Th]. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 305401	1.8	7
84	The antimony-niobium (Sb-Nb) system. <i>Journal of Phase Equilibria and Diffusion</i> , 1999 , 20, 475-478		7
83	HPT production of large bulk skutterudites. <i>Journal of Alloys and Compounds</i> , 2021 , 854, 156678	5.7	7
82	Phase Relations and Crystal Structures in the Ternary Systems Sr-{Ag, Au}-{Si, Ge}. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015 , 641, 1404-1421	1.3	6
81	Boron-phil and boron-phob structure units in novel borides Ni ₂ ZnB and NiZnB: experiment and first principles calculations. <i>Dalton Transactions</i> , 2018 , 47, 3303-3320	4.3	6
80	Incorporation of platinum atoms in a silicon-free boride of the YB ₅₀ -type structure. <i>Journal of Alloys and Compounds</i> , 2016 , 675, 99-103	5.7	6
79	Boron site preference in ternary Ta and Nb boron silicides. <i>Journal of Solid State Chemistry</i> , 2012 , 190, 1-7	3.3	6
78	Physical properties of non-centrosymmetric Ni ₂ Zn ₁₁ . <i>Intermetallics</i> , 2013 , 38, 88-91	3.5	6
77	Spinodal decomposition in (Ca _x Ba _{1-x}) _y Fe ₄ Sb ₁₂ . <i>Acta Materialia</i> , 2012 , 60, 4487-4495	8.4	6
76	High Temperature FeB-type Phases in the Systems Ta-{Ti,Zr,Hf}-B. <i>Journal of Phase Equilibria and Diffusion</i> , 2015 , 36, 620-631	1	5
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74	Study of thermal stability of p-type skutterudites DDFeCoSb by Knudsen effusion mass spectrometry.. <i>RSC Advances</i> , 2019 , 9, 21451-21459	3.7	5
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