

Peter Franz Rogl

List of Publications by Year in descending order

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216
papers

5,420
citations

87723

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all docs

221
docs citations

221
times ranked

3507
citing authors

#	ARTICLE	IF	CITATIONS
1	High pressure torsion, a large-scale manufacturing tool for high ZT skutterudite thermoelectrics. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2022, 648, .	0.6	5
2	Understanding thermal and electronic transport in high-performance thermoelectric skutterudites. Intermetallics, 2022, 146, 107567.	1.8	5
3	Site preference, thermodynamic, and magnetic properties of the ternary Laves phase $Ti(Fe_{1-x})TjETQq11$ MgZn ₂ -type. International Journal of Materials Research, 2022, 97, 450-460.	0.784314 0.1	rgBT /Ove 0
4	HPT production of large bulk skutterudites. Journal of Alloys and Compounds, 2021, 854, 156678.	2.8	12
5	Influence of shear strain on HPT-processed n-type skutterudites yielding ZT=2.1. Journal of Alloys and Compounds, 2021, 855, 157409.	2.8	17
6	Thermoelectric properties enhancement of Ba _{0.2} Co ₄ Sb ₁₂ through dispersion of GaSb inclusions. Physica B: Condensed Matter, 2021, 606, 412440.	1.3	2
7	La ₂ Pd ₃ Ge ₅ and Nd ₂ Pd ₃ Ge ₅ Compounds: Chemical Bonding and Physical Properties. Inorganic Chemistry, 2021, 60, 3345-3354.	1.9	11
8	Properties of HPT-Processed Large Bulks of p-Type Skutterudite $DD_{0.7}Fe_3CoSb_{12}$ with ZT > 1.3. ACS Applied Energy Materials, 2021, 4, 4831-4844.	2.5	8
9	On the constitution and thermodynamic modeling of the phase diagrams Nb-Mn and Ta-Mn. Journal of Alloys and Compounds, 2021, 865, 158715.	2.8	4
10	Study of thermal stability of n-type skutterudites Sr _{0.07} Ba _{0.07} Yb _{0.07} Co ₄ Sb ₁₂ by differential thermal analysis and Knudsen effusion method. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2021, 73, 102258.	0.7	2
11	Study of thermal stability of half-Heusler alloys TiFe _{1.33} Sb and Ti _x Nb _{1-x} FeSb (x = 0, 0.15) by differential thermal analysis and Knudsen effusion method. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2021, 74, 102292.	0.7	4
12	InSb nanoparticles dispersion in Yb-filled Co ₄ Sb ₁₂ improves the thermoelectric performance. Journal of Alloys and Compounds, 2021, 880, 160532.	2.8	7
13	Anisotropy of Microstructure and Its Influence on Thermoelectricity: The Case of Cu ₂ Te@Sb ₂ Te ₃ Eutectic. ACS Applied Energy Materials, 2021, 4, 11867-11877.	2.5	2
14	Physical properties of {Ti,Zr,Hf} ₂ Ni ₂ Sn compounds. Dalton Transactions, 2021, 51, 361-374.	1.6	0
15	Determination of structural disorder in Heusler-type phases. Computational Materials Science, 2020, 172, 109307.	1.4	12
16	Effect of Fe alloying on the thermoelectric performance of Cu ₂ Te. Journal of Alloys and Compounds, 2020, 817, 152729.	2.8	24
17	Half-Heusler alloys: Enhancement of ZT after severe plastic deformation (ultra-low thermal) Tj ETQq11 10.784314 rgBT /Overlock 10 T	3.8	44
18	Enhanced Thermoelectric Performance in the Ba _{0.3} Co ₄ Sb ₁₂ /InSb Nanocomposite Originating from the Minimum Possible Lattice Thermal Conductivity. ACS Applied Materials & Interfaces, 2020, 12, 48729-48740.	4.0	13

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19	How Severe Plastic Deformation Changes the Mechanical Properties of Thermoelectric Skutterudites and Half Heusler Alloys. <i>Frontiers in Materials</i> , 2020, 7, .	1.2	8
20	Resistivity and Thermal Expansion (4.2â€“820 K) of Skutterudites after Severe Plastic Deformation via HPT. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020, 646, 1267-1272.	0.6	5
21	Preferential phonon scattering and low energy carrier filtering by interfaces of <i>in situ</i> formed InSb nanoprecipitates and GaSb nanoinclusions for enhanced thermoelectric performance of $\text{In}_{0.2}\text{Co}_4\text{Sb}_{12}$. <i>Dalton Transactions</i> , 2020, 49, 15883-15894.	1.6	8
22	Thermoelectric Properties and Stability of Nanocomposites Type I Clathrate BaCuSi with SiC. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020, 646, 1055-1061.	0.6	3
23	Thermoelectric properties of Al substituted tetrahedrite. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	9
24	Interaction of Skutterudites with Contact Materials: A Metallurgical Analysis. <i>Journal of Phase Equilibria and Diffusion</i> , 2020, 41, 365-377.	0.5	2
25	Study of thermal stability of p-type skutterudites $\text{DD}_{0.7}\text{Fe}_3\text{CoSb}_{12}$ by Knudsen effusion mass spectrometry. <i>RSC Advances</i> , 2019, 9, 21451-21459.	1.7	5
26	The system thorium-palladium-boron: A DFT study on the stability and properties of $\text{Th}_2\text{Pd}_{15}\text{B}_5$. <i>Journal of Alloys and Compounds</i> , 2019, 811, 151578.	2.8	1
27	The Effect of Severe Plastic Deformation on Thermoelectric Performance of Skutterudites, Half-Heuslers and Bi-Tellurides. <i>Materials Transactions</i> , 2019, 60, 2071-2085.	0.4	21
28	Structural and Thermoelectric Properties of Cu Substituted Type I Clathrates $\text{Ba}_8\text{Cu}_x\text{Si}_{32-x}\text{Ga}_{14}$. <i>Materials</i> , 2019, 12, 237.	1.3	6
29	Evidence of multiband behavior in a new superconductor $\text{Ta}_{0.8}\text{Zr}_{0.2}\text{B}$ with FeB-prototype structure. <i>Journal of Alloys and Compounds</i> , 2019, 803, 597-600.	2.8	1
30	Sustainable and simple processing technique for n-type skutterudites with high ZT and their analysis. <i>Acta Materialia</i> , 2019, 173, 9-19.	3.8	22
31	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.	0.7	18
32	Origin of Band Modulation in GeTe-Rich GeSbTe Thin Film. <i>ACS Applied Electronic Materials</i> , 2019, 1, 2619-2625.	2.0	3
33	Skutterudites: Progress and Challenges. , 2019, , 177-201.		6
34	Syntheses and Properties of $\text{Yb}(\text{Al}_x\text{T}_x\text{B}_4)$ ($x = \text{Cr}$, Tj ETQq0 0 0 rgBT /Overlock Metallurgy, 2019, 66, 525-529.	0.1	2
35	Structural, thermodynamic, and electronic properties of Laves-phase NbMn_2 from first principles, x-ray diffraction, and calorimetric experiments. <i>Physical Review B</i> , 2018, 97, .		
36	Boron-phil and boron-phob structure units in novel borides $\text{Ni}_3\text{Zn}_2\text{B}$ and Ni_2ZnB : experiment and first principles calculations. <i>Dalton Transactions</i> , 2018, 47, 3303-3320.	1.6	8

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37	On the constitution and thermodynamic modelling of the system Zr-Ni-Sn. <i>Journal of Alloys and Compounds</i> , 2018, 742, 1058-1082.	2.8	20
38	Suppression of vacancies boosts thermoelectric performance in type-I clathrates. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1727-1735.	5.2	26
39	Thermoelectric properties of Co ₄ Sb ₁₂ with Bi ₂ Te ₃ nano-inclusions. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 095701.	0.7	15
40	Physical properties of TiMn ₂ and interaction with refractory TiN (system Ti-Mn-N). <i>Journal of Alloys and Compounds</i> , 2018, 740, 647-659.	2.8	6
41	Structure and properties of a novel boride (V _{0.92} Fe _{0.08}) ₂ FeB ₂ with partially ordered U ₃ Si ₂ -type. <i>Journal of Alloys and Compounds</i> , 2018, 746, 638-647.	2.8	3
42	The half Heusler system Ti _{1+x} Fe _{1.33x} SbTiCoSb with Sb/Sn substitution: phase relations, crystal structures and thermoelectric properties. <i>Dalton Transactions</i> , 2018, 47, 879-897.	1.6	36
43	Structure and properties of a novel boride: ThNi ₁₂ B ₆ . <i>Dalton Transactions</i> , 2018, 47, 12933-12943.	1.6	1
44	Novel ternary compound Ce ₄ Pt ₉ Al ₁₃ : Crystal structure, physical properties. <i>Journal of Alloys and Compounds</i> , 2018, 767, 496-503.	2.8	4
45	Crystal Chemistry and Thermoelectric Properties of Type-I Clathrate Ba ₈ Ni ^{1/3} ₃ Si ₆ Ge ₄₂ 2 ^x (x = 0, 10, 20). <i>Tj ETQq1 1 0.784314</i>	1.3	2
46	Direct SPD-processing to achieve high-ZT skutterudites. <i>Acta Materialia</i> , 2018, 159, 352-363.	3.8	27
47	Crystal structure and physical properties of UMo ₃ B ₇ . <i>Intermetallics</i> , 2017, 85, 180-186.	1.8	5
48	Th ₇ Fe ₃ Type Related Structures in Pd(Pt)CuB Systems: Pd ₆ CuB ₃ A New Structure Type for Borides. <i>Chemistry - A European Journal</i> , 2017, 23, 4810-4817.	1.7	2
49	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.	3.8	61
50	(V,Nb)-doped half Heusler alloys based on {Ti,Zr,Hf}NiSn with high ZT. <i>Acta Materialia</i> , 2017, 131, 336-348.	3.8	119
51	ScRu ₂ B ₃ and Sc ₂ RuB ₆ : Borides Featuring a 2D Infinite Boron Clustering. <i>Inorganic Chemistry</i> , 2017, 56, 10549-10558.	1.9	6
52	How nanoparticles can change the figure of merit, ZT, and mechanical properties of skutterudites. <i>Materials Today Physics</i> , 2017, 3, 48-69.	2.9	80
53	BaAl ₄ derivative phases in the sections {La,Ce}Ni ₂ Si ₂ {La,Ce}Zn ₂ Si ₂ : phase relations, crystal structures and physical properties. <i>Dalton Transactions</i> , 2016, 45, 5262-5273.	1.6	2
54	Peculiarities of thermoelectric half-Heusler phase formation in Gd-Ni-Sb and Lu-Ni-Sb ternary systems. <i>Journal of Solid State Chemistry</i> , 2016, 239, 145-152.	1.4	25

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55	Yb _{9+x} CuMg ₄ (x = 0.034): A β -Phase Formed by Lanthanoids. <i>Inorganic Chemistry</i> , 2016, 55, 8174-8183.	1.9	7
56	The Ti-Mn system revisited: experimental investigation and thermodynamic modelling. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 23326-23339.	1.3	16
57	Nanostructured clathrates and clathrate-based nanocomposites. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 784-801.	0.8	3
58	Chemical and Thermoelectric Properties of Hot Pressed and Spark Plasma Sintered Type-I Clathrate Ba ₈ Cu _{4.8} Si _{41.2} . <i>Journal of Electronic Materials</i> , 2016, 45, 1840-1845.	1.0	1
59	Thermoelectric high ZT half-Heusler alloys Ti _{1-x} Zr _x Hf _y Ni _{1-y} Sn (0 ≤ x ≤ 1; 0 ≤ y ≤ 1). <i>Acta Materialia</i> , 2016, 104, 210-222.	3.8	166
60	Mechanical properties of half-Heusler alloys. <i>Acta Materialia</i> , 2016, 107, 178-195.	3.8	235
61	Incorporation of platinum atoms in a silicon-free boride of the YB50-type structure. <i>Journal of Alloys and Compounds</i> , 2016, 675, 99-103.	2.8	8
62	Superconductivity and spin fluctuations in the actinoid-platinum metal borides {Th,U}Pt ₃ B. <i>Physical Review B</i> , 2015, 92, .	1.1	2
63	From Occupied Voids to Nanoprecipitates: Synthesis of Skutterudite Nanocomposites in situ. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 1495-1502.	0.6	4
64	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.	1.2	93
65	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, 24248-24261.	1.3	8
66	Changes in microstructure and physical properties of skutterudites after severe plastic deformation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 3715-3722.	1.3	29
67	Constitution of the systems {V,Nb,Ta}-Sb and physical properties of δ -antimonides {V,Nb,Ta}Sb ₂ . <i>Intermetallics</i> , 2015, 65, 94-110.	1.8	23
68	In-doped multifilled n-type skutterudites with ZT = 1.8. <i>Acta Materialia</i> , 2015, 95, 201-211.	3.8	146
69	New bulk p-type skutterudites DD _{0.7} Fe _{2.7} Co _{1.3} Sb ₁₂ X (X = Ge, Sn) reaching ZT > 1.3. <i>Acta Materialia</i> , 2015, 91, 227-238.	3.8	98
70	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.	0.6	7
71	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.	0.5	7
72	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, 10958-10965.	1.9	12

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73	Crystal structures and constitution of the binary system iridium-boron. <i>Science China Materials</i> , 2015, 58, 649-668.	3.5	22
74	On the constitution and thermodynamic modelling of the system Ti-Ni-Sn. <i>RSC Advances</i> , 2015, 5, 92270-92291.	1.7	43
75	The system Ce-Zn-Si for <33.3 at.% Ce: phase relations, crystal structures and physical properties. <i>RSC Advances</i> , 2015, 5, 36480-36497.	1.7	3
76	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.	3.8	102
77	Absence of time-reversal symmetry breaking in the noncentrosymmetric superconductor MoAl_3 . <i>Physical Review B</i> , 2014, 90, .	1.1	29
78	Influence of hot pressing temperature on thermoelectric properties of type-I clathrates. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1282-1287.	0.8	3
79	n-Type skutterudites $(\text{R,Ba,Yb})_y\text{Co}_4\text{Sb}_{12}$ (R=Sr, La, Mm, DD, SrMm, SrDD) approaching $ZT \approx 2.0$. <i>Acta Materialia</i> , 2014, 63, 30-43.	3.8	254
80	Thermoelectric Properties of Two-Phase PbTe with Indium Inclusions. <i>Journal of Electronic Materials</i> , 2014, 43, 1630-1638.	1.0	12
81	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.	1.0	13
82	The Systems Tantalum (Niobium)-Cobalt-Boron. <i>Journal of Phase Equilibria and Diffusion</i> , 2014, 35, 43-85.	0.5	6
83	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.	0.5	27
84	DFT Calculations: A Powerful Tool for Materials Design. <i>Journal of Phase Equilibria and Diffusion</i> , 2014, 35, 221-222.	0.5	9
85	Thermoelectric properties of PbTe with encapsulated bismuth secondary phase. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	24
86	Thermoelectric properties of chalcogenide based $\text{Cu}_{2+x}\text{ZnSn}_{1-x}\text{Se}_4$. <i>AIP Advances</i> , 2013, 3, .	0.6	38
87	High-Pressure Torsion to Improve Thermoelectric Efficiency of Clathrates?. <i>Journal of Electronic Materials</i> , 2013, 42, 1330-1334.	1.0	15
88	The system Ta-V-Si: Thermodynamic modeling. <i>Journal of Solid State Chemistry</i> , 2013, 199, 171-180.	1.4	5
89	The effect of multisubstitution on the thermoelectric properties of chalcogenide-based $\text{Cu}_{2.1}\text{Zn}_{0.9}\text{Sn}_1\text{In}_x\text{Se}_4$ ($0 \leq x \leq 2$). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 2471-2478.	1.4	28
90	Phase relations and structural features in the system Ni-Zn-B. <i>Journal of Solid State Chemistry</i> , 2013, 198, 150-161.	1.4	9

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91	In γ $\text{Co}_4\text{Sb}_{12}$ Skutterudite: Phase Equilibria and Crystal Structure. <i>Journal of Electronic Materials</i> , 2013, 42, 2940-2952.	1.0	41
92	Thermoelectric properties of $\text{Fe}_{0.2}\text{Co}_{3.8}\text{Sb}_{12-x}\text{Te}_x$ skutterudites. <i>Acta Materialia</i> , 2013, 61, 6698-6711.	3.8	47
93	Physical properties of the ternary borides $\text{Ni}_{21}\text{Zn}_2\text{B}_{20}$ and Ni_3ZnB_2 . <i>Journal of Alloys and Compounds</i> , 2013, 550, 302-307.	2.8	8
94	Peculiarities of structural disorder in Zr- and Hf-containing Heusler and half-Heusler stannides. <i>Intermetallics</i> , 2013, 35, 45-52.	1.8	48
95	Phase equilibria, formation, crystal and electronic structure of ternary compounds in Ti-Ni-Sn and Ti-Ni-Sb ternary systems. <i>Journal of Solid State Chemistry</i> , 2013, 197, 103-112.	1.4	53
96	Tuning of band gap and thermoelectric properties of type-I clathrate $\text{Ba}_8\text{Ni}_x\text{Zn}_y\text{Ge}_{46-x-y}\text{Zn}_z$. <i>Journal of Alloys and Compounds</i> , 2013, 567, 65-72.	2.8	18
97	The crystal structure of Ni-Zn co-doped I_2 boron, $\text{Ni}_{0.18}\text{Zn}_{1.21}\text{B}_{34.94}$. <i>Journal of Alloys and Compounds</i> , 2013, 561, 276-283.	2.8	2
98	Dependence of thermoelectric behaviour on severe plastic deformation parameters: A case study on p-type skutterudite $\text{DDO.60Fe}_3\text{CoSb}_{12}$. <i>Acta Materialia</i> , 2013, 61, 6778-6789.	3.8	59
99	Phase equilibria and crystal structures in the system Ce-Zn-Si . <i>Intermetallics</i> , 2013, 36, 118-126.	1.8	7
100	Physical properties of non-centrosymmetric $\text{Ni}_2\text{Zn}_{11}$. <i>Intermetallics</i> , 2013, 38, 88-91.	1.8	8
101	Structural and thermoelectric properties of $\text{Ba}_8\text{Cu}_5\text{Si}_6\text{Ge}_{35-x}\text{Sn}_x$ (0 $\leq x \leq$ 0.6). <i>Materials Research Society Symposia Proceedings</i> , 2013, 1490, 19-26.	1.1	29
102	Clathrate formation in the systems Ba-Ir-Ge and Ba-Rh, Ir-Si : Crystal chemistry and phase relations. <i>Intermetallics</i> , 2013, 36, 61-72.	1.8	15
103	Structural and Physical Properties Diversity of New CaCu_5 -Type Related Europium Platinum Borides. <i>Inorganic Chemistry</i> , 2013, 52, 4185-4197.	1.9	11
104	Crystal structure, and physical properties of the novel compounds EuRh_3Ge_7 and EuIr_3Ge_7 . <i>Intermetallics</i> , 2013, 42, 45-51.	1.8	4
105	$\text{Ti}_8(\text{Ti}_x\text{Mn}_{1-x})_6\text{Mn}_{39}$ ($\sim \text{TiMn}^{1/44}$): a metallic spin fluctuation system. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 106002.	0.7	1
106	Influence of Sn on the structural and thermoelectric properties of the type-I clathrates $\text{Ba}_8\text{Cu}_5\text{Si}_6\text{Ge}_{35-x}\text{Sn}_x$ (0 $\leq x \leq$ 0.6). <i>Materials Research Society Symposia Proceedings</i> , 2013, 1490, 19-26.	0.1	2
107	Phase relations, crystal chemistry, and physical properties of MgZn_2 -type Laves phases in the Mn-Cu-Si and Mn-Ni-Si systems. <i>Physical Review B</i> , 2013, 88, ...	1.1	4
108	Severe Plastic Deformation, A Tool to Enhance Thermoelectric Performance. <i>Springer Series in Materials Science</i> , 2013, , 193-254.	0.4	14

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127	Dependence of the Elastic Moduli of Skutterudites on Density and Temperature. Materials Research Society Symposia Proceedings, 2011, 1325, 29.	0.1	5
128	Mechanical Properties of Skutterudites. Science of Advanced Materials, 2011, 3, 517-538.	0.1	102
129	Crystal structure and physical properties of quaternary clathrates $Ba_8Zn_xGe_{46-x}Si_y$, $Ba_8(Zn,Cu)_xGe_{46-x}$ and $Ba_8(Zn,Pd)_xGe_{46-x}$. Journal of Solid State Chemistry, 2010, 183, 2329-2342.	1.4	15
130	Skutterudites: Thermoelectric Materials for Automotive Applications?. Journal of Electronic Materials, 2010, 39, 2074-2078.	1.0	39
131	Giant Thermopower at Low Temperatures in Novel Clathrates $Ba_8\{Cu,Zn\}_xGe_{46-x}$. Journal of Electronic Materials, 2010, 39, 1687-1691.	1.0	1
132	Ba-Cu-Si Clathrates: Phase Equilibria and Crystal Chemistry. Journal of Electronic Materials, 2010, 39, 1634-1639.	1.0	29
133	Bulk Nanostructured Functional Materials By Severe Plastic Deformation. Advanced Engineering Materials, 2010, 12, 692-700.	1.6	64
134	On phase equilibria and crystal structures in the systems $CePd_4B$ and $YbPd_4B$. Physical properties of $R_2Pd_{13}B_5$ ($R=Yb, Lu$). Journal of Solid State Chemistry, 2010, 183, 1013-1037.	1.4	17
135	The ternary system: Silicon-tantalum-uranium. Journal of Nuclear Materials, 2010, 404, 55-59.	1.3	6
136	Mechanical properties of filled antimonide skutterudites. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 170, 26-31.	1.7	92
137	Thermal expansion of skutterudites. Journal of Applied Physics, 2010, 107, .	1.1	74
138	ON THE SKUTTERUDITE $Pt_4Sn_{4.4}Sb_{7.6}$. International Journal of Modern Physics B, 2010, 24, 711-721.	1.0	4
139	Thermal expansion of thermoelectric type-I-clathrates. Journal of Applied Physics, 2010, 108, .	1.1	43
140	The system uranium-palladium-boron with $U_2.5Pd_{20.5}B_6$, a new heavy fermion compound. Journal of Physics Condensed Matter, 2010, 22, 125601.	0.7	2
141	On the physical properties of RPd_8B_2 and $R_3Pd_{25}B_8$ ($R = La, Ce$). Journal of Physics Condensed Matter, 2010, 22, 425603.	0.7	2
142	Unconventional superconducting phase in the weakly correlated noncentrosymmetric Mo_3 . Physical Review B, 2010, 82, .	1.1	121
143	Thermoelectric properties of novel skutterudites with didymium: $DDy(Fe_{1-x}Co_x)_4Sb_{12}$ and $DDy(Fe_{1-x}Ni_x)_4Sb_{12}$. Intermetallics, 2010, 18, 57-64.	1.8	119
144	Novel silicide $BaPt_5Si_{12}$: Crystal structure and physical properties. Intermetallics, 2010, 18, 173-178.	1.8	2

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145	Structural and physical properties of n-type skutterudite $\text{Ca}_{0.07}\text{Ba}_{0.23}\text{Co}_{3.95}\text{Ni}_{0.05}\text{Sb}_{12}$. Intermetallics, 2010, 18, 394-398.	1.8	36
146	The tau-borides $\bar{\Gamma}_1\text{-(Fe}_{0.54}\text{Ir}_{0.46})_{20}\text{Fe}_3\text{B}_6$ and $\bar{\Gamma}_1\text{-(Co}_{0.64}\text{Ir}_{0.36})_{21}\text{Co}_{0.16}\text{B}_4\text{B}_6$. Intermetallics, 2010, 18, 694-701.	1.8	9
147	Phase equilibria and crystal structures in the system Eu-Pd-B . Intermetallics, 2010, 18, 1642-1647.	1.8	5
148	The system Nd-Fe-Sb : Phase equilibria, crystal structures and physical properties. Intermetallics, 2010, 18, 2361-2376.	1.8	8
149	Multifilled nanocrystalline p-type didymium $\bar{\Gamma}_1$ Skutterudites with $ZT > 1.2$. Intermetallics, 2010, 18, 2435-2444.	1.8	93
150	Thermoelectric performance of mischmetal skutterudites $\text{M}_m\text{Fe}_{4-x}\text{Co}_x\text{Sb}_{12}$ at elevated temperatures. Journal of Alloys and Compounds, 2010, 490, 19-25.	2.8	49
151	Impact of high pressure torsion on the microstructure and physical properties of $\text{Pr}_{0.67}\text{Fe}_3\text{CoSb}_{12}$, $\text{Pr}_{0.71}\text{Fe}_{3.5}\text{Ni}_{0.5}\text{Sb}_{12}$, and $\text{Ba}_{0.06}\text{Co}_4\text{Sb}_{12}$. Journal of Alloys and Compounds, 2010, 494, 78-83.	2.8	50
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