

# Ernst Bauer

## List of Publications by Year in descending order

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555  
papers

15,472  
citations

32410

55  
h-index

34195

103  
g-index

574  
all docs

574  
docs citations

574  
times ranked

8882  
citing authors



#	ARTICLE	IF	CITATIONS
19	Half-Heusler alloys: Enhancement of ZT after severe plastic deformation (ultra-low thermal) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	3.8	44
20	Zr-based nickel aluminides: Crystal structure and electronic properties. Journal of Alloys and Compounds, 2020, 821, 153326.	2.8	1
21	Enhanced Thermoelectric Performance in the Ba <sub>0.3</sub> Co <sub>4</sub> Sb <sub>12</sub> /InSb Nanocomposite Originating from the Minimum Possible Lattice Thermal Conductivity. ACS Applied Materials & Interfaces, 2020, 12, 48729-48740.	4.0	13
22	Stoichiometric and off-stoichiometric full Heusler $V_{1-x}Nb_xAl$ thermoelectric systems. Physical Review B, 2020, 102, .	3.8	17
23	Significant off-stoichiometry effect leading to the N-type conduction and ferromagnetic properties in titanium doped Fe <sub>2</sub> VAl thin films. Acta Materialia, 2020, 200, 848-856.	3.8	17
24	Resistivity and Thermal Expansion (4.2â€“820 K) of Skutterudites after Severe Plastic Deformation via HPT. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 1267-1272.	0.6	5
25	Preferential phonon scattering and low energy carrier filtering by interfaces of <i>in situ</i> formed In <sub>0.2</sub> Co <sub>4</sub> Sb <sub>12</sub> . Dalton Transactions, 2020, 49, 15883-15894.	1.6	8
26	Thermoelectric Properties and Stability of Nanocomposites Type I Clathrate Baâ€Cuâ€Si with SiC. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 1055-1061.	0.6	3
27	Pressure-induced antiferromagnetic dome in the heavy-fermion $Yb_{1-x}Pd_x$ system. Physical Review B, 2020, 101, .	3.8	44
28	Thermoelectric properties of Al substituted tetrahedrite. Journal of Applied Physics, 2020, 127, .	1.1	9
29	Interaction of Skutterudites with Contact Materials: A Metallurgical Analysis. Journal of Phase Equilibria and Diffusion, 2020, 41, 365-377.	0.5	2
30	Isoelectronic Modifications of Thermoelectric Properties in Fe <sub>2</sub> V <sub>1-x</sub> Nb <sub>x</sub> Al. Solid State Phenomena, 2019, 289, 141-147.	0.3	0
31	Physical properties of CeIrSi with trillium-lattice frustrated magnetism. Physical Review B, 2019, 100, .	1.1	5
32	Thermoelectric performance of a metastable thin-film Heusler alloy. Nature, 2019, 576, 85-90.	13.7	232
33	High-ZT half-Heusler thermoelectrics, Ti <sub>0.5</sub> Zr <sub>0.5</sub> NiSn and Ti <sub>0.5</sub> Zr <sub>0.5</sub> NiSn <sub>0.98</sub> Sb <sub>0.02</sub> : Physical properties at low temperatures. Acta Materialia, 2019, 166, 466-483.	3.8	31
34	Thermoelectric Half-Heusler compounds TaFeSb and Ta <sub>1-x</sub> Ti <sub>x</sub> FeSb (0 â‰ x â‰ 0.11): Formation and physical properties. Intermetallics, 2019, 111, 106468.	1.8	14
35	Sustainable and simple processing technique for n-type skutterudites with high ZT and their analysis. Acta Materialia, 2019, 173, 9-19.	3.8	22
36	Structural and magnetic properties of the Yb <sub>2</sub> Pd <sub>2</sub> (In <sub>1âˆ“x</sub> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 investigation. Journal of Physics Condensed Matter, 2019, 31, 385802.	0.7	2

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37	Gold-Decorated Biphasic $\text{Fe}_2\text{O}_3(0001)$ : Activation by CO-Induced Surface Reduction. Journal of Physical Chemistry C, 2019, 123, 8221-8227.	1.5	3
38	High Temperature Equilibrium and Growth Shape of Small Particles: The Case of Thallium. Journal of Physical Chemistry C, 2019, 123, 8000-8004.	1.5	0
39	LEEM, SPLEEM and SPELEEM. Springer Handbooks, 2019, , 487-535.	0.3	12
40	Breakdown of the coherence effects and Fermi liquid behavior in $\text{YbAl}_3$ nanoparticles. Journal of Physics Condensed Matter, 2018, 30, 135604.	0.7	3
41	Structural, thermodynamic, and electronic properties of Laves-phase $\text{NbMn}_2$ from first principles, x-ray diffraction, and calorimetric experiments. Physical Review B, 2018, 97, .		
42	Boron-phil and boron-phob structure units in novel borides $\text{Ni}_3\text{Zn}_2\text{B}$ and $\text{Ni}_2\text{ZnB}$ : experiment and first principles calculations. Dalton Transactions, 2018, 47, 3303-3320.	1.6	8
43	On the constitution and thermodynamic modelling of the system Zr-Ni-Sn. Journal of Alloys and Compounds, 2018, 742, 1058-1082.	2.8	20
44	Nanostructuring as a tool to adjust thermal expansion in high ZT skutterudites. Acta Materialia, 2018, 145, 359-368.	3.8	35
45	Constitution of the binary M-Sb systems (M = Ti, Zr, Hf) and physical properties of $\text{MSb}_2$ . Intermetallics, 2018, 94, 119-132.	1.8	13
46	Suppression of vacancies boosts thermoelectric performance in type-I clathrates. Journal of Materials Chemistry A, 2018, 6, 1727-1735.	5.2	26
47	Physical properties of $\text{TiMn}_2$ and interaction with refractory TiN (system Ti-Mn-N). Journal of Alloys and Compounds, 2018, 740, 647-659.	2.8	6
48	The half Heusler system $\text{Ti}_{1+x}\text{Fe}_{1.33x}\text{Sb}$ with Sb/Sn substitution: phase relations, crystal structures and thermoelectric properties. Dalton Transactions, 2018, 47, 879-897.	1.6	36
49	Filled skutterudite superconductor $\text{CaOs}_4\text{P}_{12}$ prepared by high-pressure synthesis. Physical Review B, 2018, 98, .	1.1	8
50	Single-crystal study of the charge density wave metal $\text{LuNiC}$ .	1.1	17
51	Strong antisymmetric spin-orbit coupling and superconducting properties: the case of noncentrosymmetric $\text{LaPtSi}$ . Journal of Physics Condensed Matter, 2018, 30, 255603.	0.7	7
52	Direct SPD-processing to achieve high-ZT skutterudites. Acta Materialia, 2018, 159, 352-363.	3.8	27
53	Crystal structure and physical properties of $\text{UMo}_3\text{B}_7$ . Intermetallics, 2017, 85, 180-186.	1.8	5
54	Fe on $\text{W}(001)$ from continuous films to nanoparticles: Growth and magnetic domain structure. Physical Review B, 2017, 95, .	1.1	10

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55	Th <sub>7</sub> Fe <sub>3</sub> Type Related Structures in Pd(Pt)Cu Systems: Pd <sub>6</sub> CuB <sub>3</sub> A New Structure Type for Borides. Chemistry - A European Journal, 2017, 23, 4810-4817.	1.7	2
56	On the Half-Heusler compounds Nb <sub>1-x</sub> {Ti,Zr,Hf} <sub>x</sub> FeSb: Phase relations, thermoelectric properties at low and high temperature, and mechanical properties. Acta Materialia, 2017, 135, 263-276.	3.8	61
57	(V,Nb)-doped half Heusler alloys based on {Ti,Zr,Hf}NiSn with high ZT. Acta Materialia, 2017, 131, 336-348.	3.8	119
58	Elucidating the lack of magnetic order in the heavy-fermion CeCu <sub>2</sub> Si <sub>2</sub> . Physical Review B, 2017, 95, .		
59	The effect of nanostructure on the thermoelectric figure-of-merit of La <sub>0.875</sub> Sr <sub>0.125</sub> CoO <sub>3</sub> . Journal of Alloys and Compounds, 2017, 711, 381-386.	2.8	10
60	On the boron rich phases in the Yb-B system. Journal of Solid State Chemistry, 2017, 255, 172-177.	1.4	8
61	Impurity band effects on transport and thermoelectric properties of Fe <sub>2-x</sub> Ni <sub>x</sub> VAI. Physical Review B, 2017, 96, .	1.1	26
62	Dependences of phase stability and thermoelectric properties of type-I clathrate Ba <sub>8</sub> Cu <sub>4.5</sub> Si <sub>6</sub> Ge <sub>35.5</sub> on synthesis process parameters. Journal of Alloys and Compounds, 2017, 725, 783-791.	2.8	4
63	Pressure-induced anomalous valence crossover in cubic YbCu <sub>5</sub> -based compounds. Scientific Reports, 2017, 7, 5846.	1.6	14
64	ScRu <sub>2</sub> B <sub>3</sub> and Sc <sub>2</sub> RuB <sub>6</sub> : Borides Featuring a 2D Infinite Boron Clustering. Inorganic Chemistry, 2017, 56, 10549-10558.	1.9	6
65	Mechanical properties of non-centrosymmetric CePt <sub>3</sub> Si and CePt <sub>3</sub> B. Journal of Physics Condensed Matter, 2017, 29, 185402.	0.7	5
66	Attempts to further enhance ZT in skutterudites via nano-composites. Journal of Alloys and Compounds, 2017, 695, 682-696.	2.8	31
67	Finite size effect on the structural and magnetic properties of MnAs/GaAs(001) patterned microstructures thin films. Scientific Reports, 2017, 7, 16970.	1.6	3
68	High-pressure Synthesis and Bulk Modulus of Non-centrosymmetric Superconductor Mo <sub>3</sub> Al <sub>2</sub> C. Journal of Physics: Conference Series, 2017, 950, 042028.	0.3	4
69	Ba-filled NiSbSn based skutterudites with anomalously high lattice thermal conductivity. Dalton Transactions, 2016, 45, 11071-11100.	1.6	13
70	Thermoelectric properties of In and I doped PbTe. Journal of Applied Physics, 2016, 120, .	1.1	37
71	BaAl <sub>4</sub> derivative phases in the sections {La,Ce}Ni <sub>2</sub> Si <sub>2</sub> –{La,Ce}Zn <sub>2</sub> Si <sub>2</sub> : phase relations, crystal structures and physical properties. Dalton Transactions, 2016, 45, 5262-5273.	1.6	2
72	Nanoscale Patterns on Polar Oxide Surfaces. Chemistry of Materials, 2016, 28, 7433-7443.	3.2	20

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73	Thermoelectric properties of Cd doped tetrahedrite: $\text{Cu}_{12-x}\text{Cd}_x\text{Sb}_4\text{S}_{13}$ . <i>Intermetallics</i> , 2016, 78, 21-29.	1.8	39
74	Thermoelectric high ZT half-Heusler alloys $\text{Ti}_{1-x}\text{Zr}_x\text{Hf}_y\text{NiSn}$ ( $0 \leq x \leq 1$ ; $0 \leq y \leq 1$ ). <i>Acta Materialia</i> , 2016, 104, 210-222.	3.8	104, 166
75	Mechanical properties of half-Heusler alloys. <i>Acta Materialia</i> , 2016, 107, 178-195.	3.8	235
76	Boron induced structure modifications in Pd-Cu-B system: new $\text{Ti}_2\text{Ni}$ -type derivative borides $\text{Pd}_3\text{Cu}_3\text{B}$ and $\text{Pd}_5\text{Cu}_5\text{B}_2$ . <i>Dalton Transactions</i> , 2016, 45, 4879-4887.	1.6	4
77	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
78	Thermal conductivity of transition metal containing type-I clathrates. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1735, 82.	0.1	0
79	Superconductivity and spin fluctuations in the actinoid-platinum metal borides $\{\text{Th}, \text{U}\}\text{Pt}_3\text{B}$ . <i>Physical Review B</i> , 2015, 92, .	1.1	2
80	Magnetic ground-state properties of noncentrosymmetric $\text{CePt}_3\text{B}_1\text{Si}_6$ . <i>Physical Review B</i> , 2015, 92, .	1.1	0
81	Absence of spin-orbit coupling induced effects on the lattice dynamics in $\text{CePt}_3\text{Si}$ . <i>Physical Review B</i> , 2015, 92, .	1.1	3
82	Ground state properties of $\text{CeNi}_{12}\text{B}_6$ . <i>Journal of Physics: Conference Series</i> , 2015, 592, 012043.	0.3	2
83	Unusual behaviour of $(\text{Np}, \text{Pu})\text{B}_2\text{C}$ . <i>Philosophical Magazine</i> , 2015, 95, 649-660.	0.7	3
84	$\text{Ba}_5\{\text{V}, \text{Nb}\}_{12}\text{Sb}_{19+x}$ , novel variants of the $\text{Ba}_5\text{Ti}_{12}\text{Sb}_{19+x}$ -type: crystal structure and physical properties. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24248-24261.	1.3	8
85	Magnetic phase diagram of superantiferromagnetic $\text{TbCu}_2$ nanoparticles. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 496002.	0.7	15
86	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
87	Thermophysical properties of $\text{Gd}_2\text{Zr}_2\text{O}_7$ powders prepared by mechanical milling: Effect of homovalent $\text{Gd}^{3+}$ substitution. <i>Journal of Alloys and Compounds</i> , 2015, 649, 1145-1150.	2.8	17
88	Temperature dependence of the thermal boundary conductance in $\text{Ag}^{3}\text{Si}/\text{diamond}$ composites. <i>Diamond and Related Materials</i> , 2015, 57, 37-42.	1.8	13
89	Constitution of the systems $\{\text{V}, \text{Nb}, \text{Ta}\}\text{-Sb}$ and physical properties of $\text{A}_2\text{-antimonides}$ $\{\text{V}, \text{Nb}, \text{Ta}\}\text{Sb}_2$ . <i>Intermetallics</i> , 2015, 65, 94-110.	1.8	23
90	In-doped multifilled n-type skutterudites with $\text{ZT} = 1.8$ . <i>Acta Materialia</i> , 2015, 95, 201-211.	3.8	146

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91	(Pt <sub>1-x</sub> Cu <sub>x</sub> ) <sub>3</sub> Cu <sub>2</sub> B and Pt <sub>9</sub> Cu <sub>3</sub> B <sub>5</sub> , the first examples of copper platinum borides. Observation of superconductivity in a novel boron filled $\bar{1}^2$ -Mn-type compound. Journal of Solid State Chemistry, 2015, 229, 303-309.	1.4	11
92	New bulk p-type skutterudites DD <sub>0.7</sub> Fe <sub>2.7</sub> Co <sub>1.3</sub> Sb <sub>12-x</sub> X (X = Ge, Sn) reaching ZT > 1.3. Acta Materialia, 2015, 91, 227-238.	3.8	98
93	Superconductivity in non-centrosymmetric materials. Physica C: Superconductivity and Its Applications, 2015, 514, 388-398.	0.6	49
94	Phase Relations and Crystal Structures in the Ternary Systems Sr <sub>x</sub> {Ag, Au} <sub>1-x</sub> {Si, Ge}. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 1404-1421.	0.6	7
95	Pt <sub>2</sub> B System Revisited: Pt <sub>2</sub> B, a New Structure Type of Binary Borides. Ternary WAl <sub>12</sub> -Type Derivative Borides. Inorganic Chemistry, 2015, 54, 10958-10965.	1.9	12
96	Thermal, magnetic and electronic properties of non-centrosymmetric YbPt <sub>2</sub> B. Journal of Physics Condensed Matter, 2015, 27, 146001.	0.7	4
97	Thermal Conductivity Behaviour of Al/Diamond and Ag/Diamond Composites in the Temperature Range 4 K <math>T</math> 293 K. Materials Science Forum, 2015, 825-826, 197-204.	0.3	1
98	Ferromagnetic Transition at 2.5 K in the Hexagonal Kondo-Lattice Compound CeRh <sub>6</sub> Ge <sub>4</sub> . Journal of the Physical Society of Japan, 2015, 84, 073704.	0.7	18
99	Evidence of s-wave superconductivity in ternary intermetallic La <sub>3</sub> Pd <sub>4</sub> Si <sub>4</sub> . Superconductor Science and Technology, 2015, 28, 095013.	1.8	0
100	On the constitution and thermodynamic modelling of the system Ti <sub>x</sub> Ni <sub>1-x</sub> Sn. RSC Advances, 2015, 5, 92270-92291.	1.7	43
101	Influence of PCA on thermoelectric properties and hardness of nanostructured Ba <sub>4</sub> Cu <sub>4</sub> Si clathrates. Materials and Design, 2015, 87, 883-890.	3.3	20
102	The system Ce <sub>x</sub> Zn <sub>1-x</sub> Si for $x < 33.3$ at.% Ce: phase relations, crystal structures and physical properties. RSC Advances, 2015, 5, 36480-36497.	1.7	3
103	Thermoelectric properties of a Mn substituted synthetic tetrahedrite. Physical Chemistry Chemical Physics, 2015, 17, 1716-1727.	1.3	117
104	A new ternary carbide Dy <sub>2</sub> Mn <sub>2-x</sub> C <sub>5</sub> (x=0.6): Preparation, crystal structure, and physical properties. Journal of Physics and Chemistry of Solids, 2015, 79, 72-77.	1.9	1
105	Nanostructuring of p- and n-type skutterudites reaching figures of merit of approximately 1.3 and 1.6, respectively. Acta Materialia, 2014, 76, 434-448.	3.8	102
106	Superconductivity in noncentrosymmetric $\text{BaAl}_2\text{Si}_2$ structures. Physical Review B, 2014, 90, .	1.1	32
107	Absence of time-reversal symmetry breaking in the noncentrosymmetric superconductor $\text{Mo}_3\text{AlC}_2$ . Physical Review B, 2014, 90, .	1.1	29
108	Influence of hot pressing temperature on thermoelectric properties of type $\bar{1}^2$ clathrates. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1282-1287.	0.8	3

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109	Crystal structure and Ce valence variation in the solid solution $\text{CeRh}_{1-x}\text{Pd}_x\text{B}_{0.5}$ . <i>Materials Research Express</i> , 2014, 1, 016101.	0.8	7
110	Strong-coupling BCS superconductivity in noncentrosymmetric $\text{BaPtSi}_3$ : a low-temperature study. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 235701.	0.7	8
111	Simulations of magnetic domain patterns on the surface of Co/Ni multilayers. <i>Surface and Interface Analysis</i> , 2014, 46, 1174-1177.	0.8	1
112	n-Type skutterudites $(\text{R},\text{Ba},\text{Yb})\text{Co}_4\text{Sb}_{12}$ (R= Sr, La, Mm, DD, SrMm, SrDD) approaching $ZT \approx 2.0$ . <i>Acta Materialia</i> , 2014, 63, 30-43.	3.8	254
113	Thermoelectric properties of Zn doped $\text{Cu}_2\text{SnSe}_3$ . <i>Materials Chemistry and Physics</i> , 2014, 147, 1022-1028.	2.0	46
114	Anisotropic Thermopower of the Kondo Insulator $\text{CeRu}_4\text{Sn}_6$ . <i>Journal of Electronic Materials</i> , 2014, 43, 2440-2443.	1.0	7
115	Crystal Structure of $\text{W}_{1-x}\text{B}_3$ 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
116	$\text{Fe}_3\text{S}_4$ (greigite) formation by vapor-solid reaction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1903-1913.	5.2	19
117	On the ternary $\text{UCu}_6.68\text{Al}_4.32$ phase. <i>Solid State Sciences</i> , 2014, 34, 69-72.	1.5	0
118	Clathrate formation in the systems $\text{SrCuGe}$ and $\{\text{Ba},\text{Sr}\}\text{CuGe}$ . <i>Journal of Solid State Chemistry</i> , 2014, 217, 169-179.	1.4	4
119	Applications in Surface Science. , 2014, , 229-345.		0
120	Thermoelectric properties of PbTe with encapsulated bismuth secondary phase. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	24
121	Magnetocrystalline phase diagram of Gd: Probably a novel phase boundary. <i>Europhysics Letters</i> , 2013, 102, 17011.	0.7	1
122	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
123	New p- and n-type skutterudites with $ZT > 1$ and nearly identical thermal expansion and mechanical properties. <i>Acta Materialia</i> , 2013, 61, 4066-4079.	3.8	28
124	High-Pressure Torsion to Improve Thermoelectric Efficiency of Clathrates?. <i>Journal of Electronic Materials</i> , 2013, 42, 1330-1334.	1.0	15
125	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.	0.8	28
126	In $\text{y Co}_4\text{Sb}_{12}$ Skutterudite: Phase Equilibria and Crystal Structure. <i>Journal of Electronic Materials</i> , 2013, 42, 2940-2952.	1.0	41



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127	Growth, magnetism and ferromagnetic thickness gap in Fe films on the W(111) surface. Physical Review B, 2013, 87, .	1.1	9
128	Superconductivity and non-Fermi-liquid behavior of La <sub>3</sub> Pd <sub>4</sub> Si <sub>4</sub> and Ce <sub>3</sub> Pd <sub>4</sub> Si <sub>4</sub> . Physical Review B, 2013, 88, .	1.1	5
129	Inelastic mean free path from reflectivity of slow electrons. Physical Review B, 2013, 87, .	1.1	24
130	Thermoelectric properties of Fe <sub>0.2</sub> Co <sub>3.8</sub> Sb <sub>12</sub> skutterudites. Acta Materialia, 2013, 61, 6698-6711.	3.8	47
131	Metal Site Doping in the Narrow-Gap FeGa <sub>3</sub> Semiconductor. Materials Science, 2013, 49, 211-219.	0.3	7
132	Influence of Sn-substitution on the thermoelectric properties of the clathrate type-I, Ba <sub>8</sub> Zn <sub>x</sub> Ge <sub>46</sub> ·x·ySn <sub>y</sub> . Dalton Transactions, 2013, 42, 2913-2920.	1.6	12
133	Physical properties of the ternary borides Ni <sub>21</sub> Zn <sub>2</sub> B <sub>20</sub> and Ni <sub>3</sub> ZnB <sub>2</sub> . Journal of Alloys and Compounds, 2013, 550, 302-307.	2.8	8
134	Tuning of band gap and thermoelectric properties of type-I clathrate Ba <sub>8</sub> Ni <sub>x</sub> Zn <sub>y</sub> Ge <sub>46</sub> ·x·y·zSn <sub>z</sub> . Journal of Alloys and Compounds, 2013, 567, 65-72.	2.8	18
135	Dependence of thermoelectric behaviour on severe plastic deformation parameters: A case study on p-type skutterudite DD0.60Fe <sub>3</sub> CoSb <sub>12</sub> . Acta Materialia, 2013, 61, 6778-6789.	3.8	59
136	Physical properties of non-centrosymmetric Ni <sub>2</sub> Zn <sub>11</sub> . Intermetallics, 2013, 38, 88-91. Structural and thermoelectric properties of Ba <sub>8</sub> Ni <sub>x</sub> Zn <sub>y</sub> Ge <sub>46</sub> ·x·y·zSn <sub>z</sub> .	1.8	8
137	Structural and thermoelectric properties of Ba <sub>8</sub> Ni <sub>x</sub> Zn <sub>y</sub> Ge <sub>46</sub> ·x·y·zSn <sub>z</sub> . Journal of Alloys and Compounds, 2013, 567, 65-72.	1.1	29
138	Cage-Forming Compounds in the Ba <sub>8</sub> Rh <sub>4</sub> Ge System: From Thermoelectrics to Superconductivity. Inorganic Chemistry, 2013, 52, 931-943.	1.9	20
139	Crystal and electronic structure and physical properties of Ni <sub>5</sub> P <sub>4</sub> . Solid State Communications, 2013, 164, 1-5.	0.9	8
140	Structural and Physical Properties Diversity of New CaCu <sub>5</sub> -Type Related Europium Platinum Borides. Inorganic Chemistry, 2013, 52, 4185-4197.	1.9	11
141	Crystal structure, and physical properties of the novel compounds EuRh <sub>3</sub> Ge <sub>7</sub> and Eulr <sub>3</sub> Ge <sub>7</sub> . Intermetallics, 2013, 42, 45-51.	1.8	4
142	Size-induced superantiferromagnetism with reentrant spin-glass behavior in metallic nanoparticles of TbCu <sub>2</sub> . Physical Review B, 2013, 87, .	1.1	26
143	Ti <sub>8</sub> (Ti <sub>x</sub> Mn <sub>1-<sup>x</sup></sub> ) <sub>6</sub> Mn <sub>39</sub> ( <sup>TM</sup> ): a metallic spin fluctuation system. Journal of Physics Condensed Matter, 2013, 25, 106002.	0.7	1
144	Thermoelectric properties of Bi-added Co <sub>4</sub> Sb <sub>12</sub> skutterudites. Journal of Physics Condensed Matter, 2013, 25, 105701.	0.7	13



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163	Non-centrosymmetric Superconductors: Strong vs. Weak Electronic Correlations. Lecture Notes in Physics, 2012, , 3-33.	0.3	21
164	Evaluation of the thermoelectric potential of the type-I clathrate Ba <sub>8</sub> NiyZnxGe <sub>46</sub> ˆxˆy. Journal Physics D: Applied Physics, 2012, 45, 215308.	1.3	8
165	Thermoelectric properties of Ba-Cu-Si clathrates. Physical Review B, 2012, 85, .	1.1	35
166	Structural and Thermoelectric Properties of Ba <sub>8</sub> Cu <sub>x</sub> Si <sub>23-x</sub> Ge <sub>23</sub> (4.5ˆxˆ7). Journal of Electronic Materials, 2012, 41, 1159-1164.	1.0	9
167	High-pressure torsion, a new processing route for thermoelectrics of high ZTs by means of severe plastic deformation. Acta Materialia, 2012, 60, 2146-2157.	3.8	117
168	The ternary system AuˆBaˆSi: Clathrate solution, electronic structure, physical properties, phase equilibria and crystal structures. Acta Materialia, 2012, 60, 2324-2336.	3.8	24
169	Evidence for conventional superconducting behavior in noncentrosymmetric Mo <sub>3</sub> Al <sub>2</sub> Physical Review B, 2011, 84, .	1.1	30
170	A new generation of p-type didymium skutterudites with high ZT. Intermetallics, 2011, 19, 546-555.	1.8	115
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