

# Gerhard H Fecher

## List of Publications by Year in descending order

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200  
papers

12,610  
citations

31902

53  
h-index

26548

107  
g-index

203  
all docs

203  
docs citations

203  
times ranked

7269  
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological Hall effect arising from the mesoscopic and microscopic non-coplanar magnetic structure in MnBi. Acta Materialia, 2022, 226, 117619.	3.8	11
2	Magnetic and Electronic Properties of Weyl Semimetal Co <sub>2</sub> MnGa Thin Films. Nanomaterials, 2021, 11, 251.	1.9	21
3	Role of Magnetic Exchange Interactions in Chiral-Type Hall Effects of Epitaxial Mn <sub>x</sub> Pt <sub>1-x</sub> Sn Films. ACS Applied Electronic Materials, 2021, 3, 1323-1333.	2.0	11
4	Martensite-austenite transition correlated twinning and symmetry breaking in single crystalline Ni <sub>50</sub> Mn <sub>50</sub> Physical Review Materials, 2021, 5, .	0.8	9
5	Composition-dependent transition in the magnetocrystalline anisotropy of tetragonal Heusler alloys Rh <sub>2</sub> Ts <sub>2</sub> (T=Fe,Co). Physical Review Materials, 2021, 5, .	0.9	4
6	Anisotropic magnetization, critical temperature, and paramagnetic Curie temperature in the highly anisotropic magnetic Heusler compound Rh <sub>2</sub> Mn <sub>3</sub> Physical Review B, 2021, 103, .	1.1	3
7	Large Anomalous Hall and Nernst Effects in High Curie Temperature Iron-Based Heusler Compounds. Advanced Science, 2021, 8, e2100782.	5.6	20
8	A New Highly Anisotropic Rh-Based Heusler Compound for Magnetic Recording. Advanced Materials, 2020, 32, 2004331.	11.1	18
9	Large topological Hall effect in an easy-cone ferromagnet (Cr <sub>0.9</sub> B <sub>0.1</sub> )Te. Applied Physics Letters, 2020, 117, .	1.5	15
10	Easy-cone magnetic structure in (Cr <sub>0.9</sub> B <sub>0.1</sub> )Te. Applied Physics Letters, 2020, 116, 102404.	1.5	5
11	Signatures of Sixfold Degenerate Exotic Fermions in a Superconducting Metal PdSb <sub>2</sub> . Advanced Materials, 2020, 32, e1906046.	11.1	36
12	Are AuPdTM (T = Sc, Y and M = Al, Ga, In), Heusler Compounds Superconductors without Inversion Symmetry?. Materials, 2019, 12, 2580.	1.3	13
13	Anomalous Hall effect and the role of Berry curvature in Co <sub>2</sub> Mn <sub>2</sub> Heusler films. Physical Review B, 2019, 100, .	1.1	32
14	Spin glass behavior in the disordered half-Heusler compound IrMnGa. Physical Review B, 2019, 99, .	1.1	34
15	New Ag <sub>8</sub> PtO <sub>6</sub> : synthesis, crystal structure, physical properties and theoretical analyses. Dalton Transactions, 2019, 48, 5058-5063.	1.6	2
16	Elastic properties and stability of Heusler compounds: Cubic Co <sub>2</sub> YZ compounds with L <sub>21</sub> structure. Journal of Applied Physics, 2019, 125, .	1.1	62
17	From Colossal to Zero: Controlling the Anomalous Hall Effect in Magnetic Heusler Compounds via Berry Curvature Design. Physical Review X, 2018, 8, .	2.8	74
18	Temperature-induced modification of the Dirac cone in the tetradymite topological insulator Bi <sub>2</sub> Te <sub>3</sub> Physical Review B, 2018, 98, .	1.1	8

#	ARTICLE	IF	CITATIONS
19	Tunable magnetic properties in tetragonal Mn-Fe-Ga Heusler films with perpendicular anisotropy for spintronics applications. <i>Physical Review Materials</i> , 2018, 2, .	0.9	4
20	A Critical Study of the Elastic Properties and Stability of Heusler Compounds: Phase Change and Tetragonal $X_2YZ$ Compounds. <i>Journal of Modern Physics</i> , 2018, 09, 775-805.	0.3	23
21	Multiple Dirac cones at the surface of the topological metal LaBi. <i>Nature Communications</i> , 2017, 8, 13942.	5.8	135
22	Completely compensated ferrimagnetism and sublattice spin crossing in the half-metallic Heusler compound $Mn_{1.5}FeV_{0.5}Al$ . <i>Physical Review B</i> , 2017, 95, .	1.1	53
23	Influence of nanoscale order-disorder transitions on the magnetic properties of Heusler compounds for spintronics. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4388-4392.	2.7	10
24	Improving thermoelectric performance of TiNiSn by mixing MnNiSb in the half-Heusler structure. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1543-1550.	1.3	26
25	Half-metallic compensated ferrimagnetism with a tunable compensation point over a wide temperature range in the Mn-Fe-V-Al Heusler system. <i>AIP Advances</i> , 2017, 7, .	0.6	18
26	Heteroepitaxial growth of tetragonal $Mn_{2.7}Fe_xGa_{1.3}$ (0 ≤ x ≤ 1.2) Heusler films with perpendicular magnetic anisotropy. <i>APL Materials</i> , 2017, 5, .	2.2	13
27	Pressure-induced transition to the compensated tetragonal phase in $BaCr_2As_2$ . <i>Physical Review B</i> , 2017, 95, .	1.1	13
28	Enhancing Thermoelectric Performance of TiNiSn Half-Heusler Compounds via Modulation Doping. <i>Chemistry of Materials</i> , 2017, 29, 7042-7048.	3.2	81
29	Improved thermoelectric properties of TiNiSn through enhancing strain field fluctuation. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 425502.	1.3	7
30	Observation of a remarkable reduction of correlation effects in $BaCr_2As_2$ by ARPES. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12425-12429.	3.3	14
31	Charge density wave quantum critical point with strong enhancement of superconductivity. <i>Nature Physics</i> , 2017, 13, 967-972.	6.5	70
32	Antiferromagnetic structure and electronic properties of $BaCr_2FeAs_2$ . <i>Physical Review B</i> , 2017, 95, .	1.1	32
33	Size-dependent structural and magnetic properties of chemically synthesized Co-Ni-Ga nanoparticles. <i>Nano Research</i> , 2017, 10, 3421-3433.	5.8	19
34	Magnetic properties and Curie temperatures of disordered Heusler compounds: $Co_{1-x}Ni_x$ . <i>Physical Review B</i> , 2016, 94, .	1.1	20
35	Half-Heusler materials as model systems for phase-separated thermoelectrics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 716-731.	0.8	29
36	Tunable structural and magnetic properties of chemically synthesized dual-phase $Co_2NiGa$ nanoparticles. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7241-7252.	2.7	9

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37	Tailoring of the electrical and thermal properties using ultra-short period non-symmetric superlattices. APL Materials, 2016, 4, 104902.	2.2	4
38	Synthesis and Three-Dimensional Magnetic Field Mapping of $\text{Co}_{2-x}\text{FeGa}$ Heusler Nanowires at 5 nm Resolution. Nano Letters, 2016, 16, 114-120.	4.5	39
39	Miscibility Gap in the Phase Diagrams of Thermoelectric Half-Heusler Materials $\text{CoTi}_{1-x}\text{Y}_x$ ( $1-x$ Y x Sb (Y = Sc, V, Mn, Fe). Journal of Electronic Materials, 2016, 45, 1382-1388.	1.0	10
40	Basics and Prospectives of Magnetic Heusler Compounds. Springer Series in Materials Science, 2016, , 37-48.	0.4	9
41	Evidence for localized moment picture in Mn-based Heusler compounds. Physical Chemistry Chemical Physics, 2015, 17, 31707-31714.	1.3	19
42	Forward scattering in hard X-ray photoelectron spectroscopy: Structural investigation of buried $\text{MnGa}$ films. Applied Physics Letters, 2015, 106, 052402.	1.5	1
43	Spin-resolved low-energy and hard x-ray photoelectron spectroscopy of off-stoichiometric $\text{Co}_{2-x}\text{MnSi}$ Heusler thin films exhibiting a record TMR. Journal Physics D: Applied Physics, 2015, 48, 164002.	1.3	16
44	Magnetic dichroism study on $\text{Mn}_{1.8}\text{Co}_{1.2}\text{Ga}$ thin film using a combination of x-ray absorption and photoemission spectroscopy. Journal Physics D: Applied Physics, 2015, 48, 164007.	1.3	9
45	Direct measurement of the magnetic anisotropy field in $\text{MnGa}$ and $\text{MnCoGa}$ Heusler films. Journal Physics D: Applied Physics, 2015, 48, 164006.	1.3	19
46	Basics and prospective of magnetic Heusler compounds. APL Materials, 2015, 3, 041518.	2.2	177
47	Structural, electronic, and magnetic properties of perpendicularly magnetised $\text{Mn}_2\text{RhSn}$ thin films. Journal Physics D: Applied Physics, 2015, 48, 164008.	1.3	8
48	A scheme for spin-selective electron localization in $\text{Mn}_3\text{Ga}$ Heusler material. Journal Physics D: Applied Physics, 2015, 48, 164004.	1.3	13
49	Chemical disorder as an engineering tool for spin polarization in $\text{Mn}_3\text{Ga}$ Heusler systems. Physical Review B, 2015, 91, .		
50	Chemical Synthesis and Characterization of $\text{Fe}_3\text{Co}_2\text{NiGa}$ Nanoparticles with a Very High Curie Temperature. Chemistry of Materials, 2015, 27, 6994-7002.	3.2	19
51	Magnetic and transport properties in the Heusler series $\text{Ni}_2\text{Mn}_{1+x}\text{Sn}$ affected by chemical disorder. Intermetallics, 2015, 57, 101-112.	1.8	30
52	STATE OF $\text{Co}$ AND $\text{Mn}$ IN HALF-METALLIC FERROMAGNET $\text{Co}_2\text{MnSi}$ EXPLORED BY MAGNETIC CIRCULAR DICHROISM IN HARD X-RAY PHOTOELECTRON EMISSION AND SOFT X-RAY ABSORPTION SPECTROSCOPIES. Spin, 2014, 04, 1440017.	0.6	13
53	Probing the electronic states of high-TMR off-stoichiometric $\text{Co}_{2-x}\text{MnSi}$ thin films by hard x-ray photoelectron spectroscopy. Physical Review B, 2014, 89, .	1.1	26
54	Structural Implications of Spin, Charge, and Orbital Ordering in Rubidium Sesquioxide, $\text{Rb}_4\text{O}_6$ . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 1239-1246.	0.6	12

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55	Investigation of the Mn <sup>3+</sup> /Ga/MgO interface for magnetic tunneling junctions. Journal of Applied Physics, 2014, 116, 034508.	1.1	8
56	Heusler nanoparticles for spintronics and ferromagnetic shape memory alloys. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2014, 32, .	0.6	45
57	Evidence of surface transport and weak antilocalization in a single crystal of the $\text{Bi}_2\text{Te}_3\text{Se}$ topological insulator. Physical Review B, 2014, 90, .	1.1	50
58	Distinct Electronic Structure of the Electrolyte Gate-Induced Conducting Phase in Vanadium Dioxide Revealed by High-Energy Photoelectron Spectroscopy. ACS Nano, 2014, 8, 5784-5789.	7.3	27
59	Hard X-ray photoelectron spectroscopy on buried, off-stoichiometric $\text{Co}_x\text{Mn}_y\text{Ge}_z$ ( $x:z=2:0.38$ ) Heusler thin films. Applied Physics A: Materials Science and Processing, 2013, 111, 395-405.	1.1	12
60	Disorder-induced cubic phase in $\text{Fe}_2\text{Mn}_2\text{Ge}$ -based Heusler alloys. Physical Review B, 2013, 87, .	1.1	24
61	Direct observation of band bending in the topological insulator $\text{Bi}_2\text{Se}_3$ . Physical Review B, 2013, 88, .	1.1	40
62	Bulk electronic structure studied by hard X-ray photoelectron spectroscopy of the valence band: The case of intermetallic compounds. Journal of Electron Spectroscopy and Related Phenomena, 2013, 190, 249-267.	0.8	22
63	Electronic and crystalline structures of <i>zero band-gap</i> $\text{LuPdBi}$ thin films grown epitaxially on $\text{MgO}(100)$ . Applied Physics Letters, 2013, 102, .	1.5	10
64	Magnetic dichroism in angular resolved hard X-ray photoelectron spectroscopy from buried magnetic layers. Journal of Electron Spectroscopy and Related Phenomena, 2013, 189, 146-151.	0.8	5
65	Realization of Spin Gapless Semiconductors: The Heusler Compound $\text{Mn}_2\text{CoAl}$ . Physical Review Letters, 2013, 110, 100401.	2.9	417
66	New Heusler Compounds and Their Properties. , 2013, , 15-43.		6
67	Half-Metallic Ferromagnets. , 2013, , 71-95.		2
68	Hard X-Ray Photoelectron Spectroscopy of New Materials for Spintronics. , 2013, , 243-269.		0
69	Theory of the Half-Metallic Heusler Compounds. , 2013, , 115-165.		3
70	Magnetic Heusler Compounds. Handbook of Magnetic Materials, 2013, , 1-75.	0.6	25
71	Magnetic and transport properties of tetragonal- or cubic-Heusler-type Co-substituted Mn-Ga epitaxial thin films. Journal of Applied Physics, 2013, 113, .	1.1	21
72	Electronic structure and nonsaturating magnetoresistance of superconducting Heusler topological insulators. Journal of Applied Physics, 2013, 113, 17E142.	1.1	14

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73	Increasing Curie temperature in tetragonal Mn <sub>2</sub> RhSn Heusler compound through substitution of Rh by Co and Mn by Rh. Journal of Applied Physics, 2013, 113, .	1.1	20
74	A Design Scheme for Topological Insulators based Bonds, Bands, Symmetry and Spin Orbit Coupling. ECS Transactions, 2013, 50, 663-666.	0.3	1
75	Fabrication and characterization of semiconducting half-Heusler YPtSb thin films. Physica Status Solidi - Rapid Research Letters, 2013, 7, 145-147.	1.2	4
76	Spin Polarimetry and Magnetic Dichroism on a Buried Magnetic Layer Using Hard X-ray Photoelectron Spectroscopy. Japanese Journal of Applied Physics, 2012, 51, 016602.	0.8	6
77	Resolving the phase structure of nonstoichiometric Co <sub>2</sub> FeGa Heusler nanoparticles. Journal of Applied Physics, 2012, 112, .	1.1	22
78	Electronic structure and optical, mechanical, and transport properties of the pure, electron-doped, and hole-doped Heusler compound CoTiSb. Physical Review B, 2012, 86, .	1.1	49
79	Superconductivity in the Heusler family of intermetallics. Physical Review B, 2012, 85, .	1.1	126
80	A p-type Heusler compound: Growth, structure, and properties of epitaxial thin NiYBi films on MgO(100). Applied Physics Letters, 2012, 101, 212102.	1.5	11
81	Electronic structure and linear magnetoresistance of the gapless topological insulator PtLuSb. Applied Physics Letters, 2012, 100, .	1.5	39
82	Stoichiometry dependent phase transition in Mn-Co-Ga-based thin films: From cubic in-plane, soft magnetized to tetragonal perpendicular, hard magnetized. Applied Physics Letters, 2012, 101, .	1.5	36
83	Ultrahigh mobility and nonsaturating magnetoresistance in Heusler topological insulators. Physical Review B, 2012, 86, .	1.1	45
84	Structure determination of thin CoFe films by anomalous x-ray diffraction. Journal of Applied Physics, 2012, 112, 074903.	1.1	4
85	Design Scheme of New Tetragonal Heusler Compounds for Spin-Transfer Torque Applications and its Experimental Realization. Advanced Materials, 2012, 24, 6283-6287.	11.1	226
86	Structural and magnetic properties of Fe <sub>2</sub> CoGa Heusler nanoparticles. Journal Physics D: Applied Physics, 2012, 45, 295001.	1.3	20
87	Pressure induced insulator/half-metal/metal transition in a strongly correlated $p$ -electron system. Physical Review B, 2012, 85, .	1.1	10
88	Quaternary Heusler compounds Co <sub>2</sub> RhMnZ (Z = Ga, Sn, Sb): crystal structure, electronic structure, and magnetic properties. Journal of Physics Condensed Matter, 2012, 24, 046001.	0.7	29
89	Hard x-ray photoelectron spectroscopy of chalcopyrite solar cell components. Applied Physics Letters, 2012, 100, 092108.	1.5	4
90	Magnetometry of buried layers—Linear magnetic dichroism and spin detection in angular resolved hard X-ray photoelectron spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2012, 185, 47-52.	0.8	56

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91	Spin Polarimetry and Magnetic Dichroism on a Buried Magnetic Layer Using Hard X-ray Photoelectron Spectroscopy. Japanese Journal of Applied Physics, 2012, 51, 016602.	0.8	5
92	Transport and optical properties of the gapless Heusler compound PtYSb. Applied Physics Letters, 2011, 99, .	1.5	22
93	Quaternary half-metallic Heusler ferromagnets for spintronics applications. Physical Review B, 2011, 83, .	1.1	237
94	Electronic and crystallographic structure, hard x-ray photoemission, and mechanical and transport properties of the half-metallic Heusler compound $\text{CoMn}_2\text{MnGe}$ . Physical Review B, 2011, 84, .	1.1	56
95	Electronic structure calculations in ordered and disordered solids with spiral magnetic order. Physical Review B, 2011, 83, .	1.1	11
96	Electronic structure calculations for $\text{ZnFe}_2\text{O}_4$ . Physical Review B, 2011, 83, .	1.1	14
97	Transport and thermal properties of single- and polycrystalline $\text{NiZr}_0.5\text{Hf}_0.5\text{Sn}$ . Applied Physics Letters, 2011, 99, 152112.	1.5	16
98	Electronic structure of Pt based topological Heusler compounds with C1b structure and zero band gap. Applied Physics Letters, 2011, 98, 211901.	1.5	44
99	Electronic, structural, and magnetic properties of the half-metallic ferromagnetic quaternary Heusler compounds $\text{CoFeMnZ}$ . Physical Review B, 2011, 84, .	1.1	110
100	Electronic structure and symmetry of valence states of epitaxial $\text{NiTiSn}$ and $\text{NiZr}_0.5\text{Hf}_0.5\text{Sn}$ thin films by hard x-ray photoelectron spectroscopy. Applied Physics Letters, 2011, 99, .	1.1	221
101	Magnetic dichroism in angle-resolved hard x-ray photoemission from buried layers. Physical Review B, 2011, 84, .	1.1	28
102	Theoretical study of new acceptor and donor molecules based on polycyclic aromatic hydrocarbons. Journal of Molecular Spectroscopy, 2011, 265, 95-101.	0.4	27
103	An Alternative Approach to Improve the Thermoelectric Properties of Half-Heusler Compounds. Journal of Electronic Materials, 2011, 40, 702-706.	1.0	30
104	Quaternary Heusler Compounds without Inversion Symmetry: $\text{CoFeTiAl}$ and $\text{CoMnVAl}$ . European Journal of Inorganic Chemistry, 2011, 3950-3954.	1.0	29
105	Tuning the magnetism of the Heusler alloys $\text{Mn}_3\text{CoGa}$ from soft and half-metallic to hard-magnetic for spin-transfer torque applications. Applied Physics Letters, 2011, 99, 222510.	1.5	72
107	Efficient Spin Injector Scheme Based on Heusler Materials. Physical Review Letters, 2011, 107, 047202.	2.9	96
108	Symmetry of Valence States of Heusler Compounds Explored by Linear Dichroism in Hard-X-Ray Photoelectron Spectroscopy. Physical Review Letters, 2011, 107, 036402.	2.9	37



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109	Electronic, magnetic, and structural properties of the ferrimagnet $MnCoSn$ . <i>Physical Review B</i> , 2011, 83.	1.1	48
110	Exploring the details of the martensite-austenite phase transition of the shape memory Heusler compound $Mn_2NiGa$ by hard x-ray photoelectron spectroscopy, magnetic and transport measurements. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	35
111	Anomalous transport properties of the half-metallic ferromagnets $Co_2TiSi$ , $Co_2TiGe$ and $Co_2TiSn$ . <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 3588-3601.	1.6	54
112	Investigation of the Thermoelectric Properties of $LiAlSi$ and $LiAlGe$ . <i>Journal of Electronic Materials</i> , 2010, 39, 1856-1860.	1.0	26
113	Seebeck coefficients of half-metallic ferromagnets. <i>Solid State Communications</i> , 2010, 150, 529-532.	0.9	82
114	Tunable multifunctional topological insulators in ternary Heusler compounds. <i>Nature Materials</i> , 2010, 9, 541-545.	13.3	804
115	Charge transfer and tunable minority band gap at the Fermi energy of a quaternary $Co_2(Mn_xTi_{1-x})Ge$ Heusler alloy. <i>Physical Review B</i> , 2010, 82, .	1.1	14
116	Thermoelectric properties and electronic structure of substituted Heusler compounds: $NiTi_{0.3}Sc_xZr_{0.35}Hf_{0.35}Sn$ . <i>Applied Physics Letters</i> , 2010, 97, .	1.5	22
117	Size correlated long and short range order of ternary $Co_2FeGa$ Heusler nanoparticles. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	29
118	Probing the Size Effect of $Co_2FeGa-SiO_2@C$ Nanocomposite Particles Prepared by a Chemical Approach. <i>Chemistry of Materials</i> , 2010, 22, 6575-6582.	3.2	27
119	Electronic structure, localization, and spin-state transition in Cu-substituted $FeSe$ . <i>Electronic Transport Properties of electron- and hole-doped semiconducting</i>	1.1	43
120	compounds: $NiTiC$ . <i>Physical Review B</i> , 2010, 82, .	1.1	99
121	A nondestructive analysis of the B diffusion in $TaCoFeMgO$ Ta magnetic tunnel junctions by hard x-ray photoemission. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	60
122	Unraveling the Formation of Core-Shell Structures in Nanoparticles by S-XPS. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 912-917.	2.1	31
123	Itinerant half-metallic ferromagnets $Co_2$		



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127	Electronic properties of $\text{Co}_2\text{MnSi}$ thin films studied by hard x-ray photoelectron spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 084011.	1.3	10
128	Electron correlations in $\text{Co}_2\text{Mn}^{1-x}\text{Fe}_x\text{Si}$ Heusler compounds. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 084002.	1.3	58
129	Structure and magnetic properties of iron-platinum particles with $\text{Fe}_3\text{O}_4$ -ferric-oxide shell. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 94, 619-625.	1.1	5
130	Crystal Structure of New Heusler Compounds. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009, 635, 976-981.	0.6	131
131	Electronic structure and transport properties of the Heusler compound $\text{Co}_2\text{TiAl}$ . <i>Journal Physics D: Applied Physics</i> , 2009, 42, 084003.	1.3	78
132	Hard x-ray photoelectron spectroscopy of buried Heusler compounds. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 084010.	1.3	18
133	Thermoelectric properties of $\text{CoTiSb}$ based compounds. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 185401.	1.3	34
134	Electronic structure, magnetic properties and order-disorder phenomena in $\text{Co}_2\text{Mn}^{1-x}\text{Fe}_x\text{Al}$ . <i>Journal Physics D: Applied Physics</i> , 2009, 42, 084007.	1.3	34
135	Superconductivity in palladium-based Heusler compounds. <i>Physical Review B</i> , 2009, 79, .	1.1	89
136	Heusler compounds as ternary intermetallic nanoparticles: $\text{Co}_2\text{FeGa}$ . <i>Journal Physics D: Applied Physics</i> , 2009, 42, 084018.	1.3	46
137	Tailoring the electronic structure of half-metallic Heusler alloys. <i>Physical Review B</i> , 2009, 80, .	1.1	72
138	Mössbauer spectroscopy of $\text{Co}_2\text{Mn}_3\text{Fe}_x\text{Al}$ . <i>Hyperfine Interactions</i> , 2008, 184, 15-21.	0.2	2
139	Electronic and structural properties of palladium-based Heusler superconductors. <i>Solid State Communications</i> , 2008, 145, 475-478.	0.9	54
140	Structural, electronic, and magnetic properties of tetragonal $\text{Mn}_3\text{CoGa}$ . <i>Physical Review B</i> , 2008, 77, 044411.	1.1	26
141	Experiments and first-principles calculations. <i>Physical Review B</i> , 2008, 77, 044411.		

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145	Ni-based superconductor: Heusler compound $ZrNi_2Co_2$ . Physical Review B, 2008, 78, .	1.1	55
146	A new diluted magnetic semiconductor: The half-metallic ferromagnet $CoTi_{1-x}Fe_xSb$ . Journal of Applied Physics, 2008, 103, 07D115.	1.1	12
147	Effects of random distribution of Mn,Fe in $Co_2Mn_{1-x}Fe_xSi$ Heusler compounds probed by Mn55 nuclear magnetic resonance. Journal of Applied Physics, 2008, 103, .	1.1	14
148	Mössbauer spectroscopy of $Co_2Mn_{1-x}Fe_xAl_x$ . , 2008, , 429-435.		0
149	Structural properties of the quaternary Heusler alloy $Co_2Cr_{1-x}Fe_xAl$ . Journal Physics D: Applied Physics, 2007, 40, 1524-1533.	1.3	34
150	A spatially resolved investigation of the local, micro-magnetic domain structure of single and polycrystalline $Co_2FeSi$ . Journal Physics D: Applied Physics, 2007, 40, 1570-1575.	1.3	18
151	High energy, high resolution photoelectron spectroscopy of $Co_2Mn_{1-x}Fe_xSi$ . Journal Physics D: Applied Physics, 2007, 40, 1576-1581.	1.3	38
152	Probing the random distribution of half-metallic $Co_2Mn_{1-x}Fe_xSi$ Heusler alloys. Applied Physics Letters, 2007, 91, .	1.5	36
153	$Mn_3Ga$ , a compensated ferrimagnet with high Curie temperature and low magnetic moment for spin torque transfer applications. Applied Physics Letters, 2007, 90, 152504.	1.5	337
154	Electronic and magnetic properties of $GdPdSb$ . Journal Physics D: Applied Physics, 2007, 40, 3024-3029.	1.3	14
155	Challenging the Prediction of Anionogenic Ferromagnetism for $Rb_4O_6$ . Journal of the American Chemical Society, 2007, 129, 6990-6991.	6.6	26
156	Understanding the trend in the Curie temperatures of $Co_{1-x}Mn_x$ -based Heusler compounds: <i>ab initio</i> calculations. Physical Review B, 2007, 76, .	1.1	266
157	Structural characterization of the $Co_2FeZ$ (Z=Al, Si, Ga, and Ge) Heusler compounds by x-ray diffraction and extended x-ray absorption fine structure spectroscopy. Applied Physics Letters, 2007, 90, 172501.	1.5	101
158	Structural and magnetic properties of $Co_2FeAl_{1-x}Si_x$ . Applied Physics Letters, 2007, 90, 242503.	1.5	63
159	Calculated electronic and magnetic properties of the half-metallic, transition metal based Heusler compounds. Journal Physics D: Applied Physics, 2007, 40, 1507-1523.	1.3	717
160	Substituting the main group element in cobalt-iron based Heusler alloys: $Co_2FeAl_{1-x}Si_x$ . Journal Physics D: Applied Physics, 2007, 40, 1582-1586.	1.3	152
161	Spintronics: A Challenge for Materials Science and Solid-State Chemistry. Angewandte Chemie - International Edition, 2007, 46, 668-699.	7.2	963
162	Bulk sensitive photo emission spectroscopy of compounds. Journal of Electron Spectroscopy and Related Phenomena, 2007, 156-158, 97-101.	0.8	15

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163	Correlation in Heusler compounds YSi(Y=3d transition metal). Journal of Magnetism and Magnetic Materials, 2007, 310, 1626-1628.	1.0	32
164	The half-metallic ferromagnet. Journal of Magnetism and Magnetic Materials, 2007, 310, 1823-1825.	1.0	6
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