

Gerhard H Fecher

List of Publications by Year in descending order

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200
papers

12,610
citations

31902

53
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26548

107
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203
all docs

203
docs citations

203
times ranked

7269
citing authors

#	ARTICLE	IF	CITATIONS
1	Spintronics: A Challenge for Materials Science and Solid-State Chemistry. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 668-699.	7.2	963
2	Tunable multifunctional topological insulators in ternary Heusler compounds. <i>Nature Materials</i> , 2010, 9, 541-545.	13.3	804
3	Calculated electronic and magnetic properties of the half-metallic, transition metal based Heusler compounds. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 1507-1523.	1.3	717
4	Geometric, electronic, and magnetic structure of Co ₂ FeSi: Curie temperature and magnetic moment measurements and calculations. <i>Physical Review B</i> , 2005, 72, .	1.1	513
5	Realization of Spin Gapless Semiconductors: The Heusler Compound Mn_2CoAl . <i>Physical Review Letters</i> , 2013, 110, 100401.	2.9	417
6	Investigation of Co ₂ FeSi: The Heusler compound with highest Curie temperature and magnetic moment. <i>Applied Physics Letters</i> , 2006, 88, 032503.	1.5	381
7	Mn ₃ Ga, a compensated ferrimagnet with high Curie temperature and low magnetic moment for spin torque transfer applications. <i>Applied Physics Letters</i> , 2007, 90, 152504.	1.5	337
8	Properties of the quaternary half-metal-type Heusler alloy Co ₂ Mn _{1-x} Fe _x Si. <i>Physical Review B</i> , 2006, 74, .	1.1	274
9	Understanding the trend in the Curie temperatures of Co ₂ Mn ₂ -based Heusler compounds: <i>Ab initio</i> calculations. <i>Physical Review B</i> , 2007, 76, .	1.1	266
10	Quaternary half-metallic Heusler ferromagnets for spintronics applications. <i>Physical Review B</i> , 2011, 83, .	1.1	237
11	Correlation in the transition-metal-based Heusler compounds Co ₂ MnSi and Co ₂ FeSi. <i>Physical Review B</i> , 2006, 73, .	1.1	236
12	Structural, electronic, and magnetic properties of tetragonal Mn ₃ CoGa. Experiments and first-principles calculations. <i>Physical Review B</i> , 2008, 77, .	1.1	221
13	Design Scheme of New Tetragonal Heusler Compounds for Spin Transfer Torque Applications and its Experimental Realization. <i>Advanced Materials</i> , 2012, 24, 6283-6287.	11.1	226
14	Electronic, structural, and magnetic properties of the half-metallic ferromagnetic quaternary Heusler compounds CoFeMnZ. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	221
15	Valence electron rules for prediction of half-metallic compensated-ferrimagnetic behaviour of Heusler compounds with complete spin polarization. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 6171-6181.	0.7	209
16	Synthesis and characterization of catalytic iridium nanoparticles in imidazolium ionic liquids. <i>Journal of Colloid and Interface Science</i> , 2006, 301, 193-204.	5.0	208
17	Slater-Pauling rule and Curie temperature of Co ₂ -based Heusler compounds. <i>Journal of Applied Physics</i> , 2006, 99, 08J106.	1.1	201
18	New quaternary half metallic material CoFeMnSi. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	197

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19	Basics and prospective of magnetic Heusler compounds. APL Materials, 2015, 3, 041518.	2.2	177
20	Substituting the main group element in cobalt-iron based Heusler alloys: $\text{Co}_2\text{FeAl}_{1-x}\text{Six}$. Journal Physics D: Applied Physics, 2007, 40, 1582-1586.	1.3	152
21	Rational design of new materials for spintronics: Co_2FeZ ($Z = \text{Al, Ga, Si, Ge}$). Science and Technology of Advanced Materials, 2008, 9, 014102.	2.8	148
22	Multiple Dirac cones at the surface of the topological metal LaBi. Nature Communications, 2017, 8, 13942.	5.8	135
23	Element-specific magnetic moments from core-absorption magnetic circular dichroism of the doped Heusler alloy $\text{Co}_2\text{Cr}_{0.6}\text{Fe}_{0.4}\text{Al}$. Physical Review B, 2003, 67, .	1.1	132
24	Crystal Structure of New Heusler Compounds. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2009, 635, 976-981.	0.6	131
25	Electronic structure and spectroscopy of the quaternary Heusler alloy $\text{Co}_2\text{Cr}_{1-x}\text{FexAl}$. Journal Physics D: Applied Physics, 2006, 39, 803-815.	1.3	130
26	Superconductivity in the Heusler family of intermetallics. Physical Review B, 2012, 85, .	1.1	126
27	Itinerant half-metallic ferromagnets Co_2FeZ ($Z = \text{Al, Ga, Si, Ge}$)		

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37	From Colossal to Zero: Controlling the Anomalous Hall Effect in Magnetic Heusler Compounds via Berry Curvature Design. <i>Physical Review X</i> , 2018, 8, .	2.8	74
38	Tailoring the electronic structure of half-metallic Heusler alloys. <i>Physical Review B</i> , 2009, 80, .	1.1	72
39	Tuning the magnetism of the Heusler alloys $Mn_{3-x}Co_xGa$ from soft and half-metallic to hard-magnetic for spin-transfer torque applications. <i>Applied Physics Letters</i> , 2011, 99, 222510.	1.5	72
40	Charge density wave quantum critical point with strong enhancement of superconductivity. <i>Nature Physics</i> , 2017, 13, 967-972.	6.5	70
41	Half-metallic ferromagnetism with high magnetic moment and high Curie temperature in Co_2FeSi . <i>Journal of Applied Physics</i> , 2006, 99, 08J103.	1.1	63
42	Structural and magnetic properties of $Co_2FeAl_{1-x}Six$. <i>Applied Physics Letters</i> , 2007, 90, 242503.	1.5	63
43	Elastic properties and stability of Heusler compounds: Cubic Co_2YZ compounds with L_{21} structure. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	62
44	Magnetic Dichroism in Photoemission with Unpolarized Light. <i>Physical Review Letters</i> , 1994, 73, 3030-3033.	2.9	61
45	Investigation of a novel material for magnetoelectronics: $Co_2Cr_{0.6}Fe_{0.4}Al$. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 7019-7027.	0.7	60
46	A nondestructive analysis of the B diffusion in Ta ϵ - $CoFeB$ - MgO - $CoFeB$ -Ta magnetic tunnel junctions by hard x-ray photoemission. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	60
47	Electron correlations in $Co_2Mn_1-xFe_xSi$ Heusler compounds. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 084002.	1.3	58
48	Electronic and crystallographic structure, hard x-ray photoemission, and mechanical and transport properties of the half-metallic Heusler compound Co_2MnGe . <i>Physical Review B</i> , 2011, 84, .	1.1	56
49	Magnetometry of buried layers—Linear magnetic dichroism and spin detection in angular resolved hard X-ray photoelectron spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2012, 185, 47-52.	0.8	56
50	Ni-based superconductor: Heusler compound $ZrNi_2$. <i>Physical Review B</i> , 2008, 78, .	1.1	55
51	Electronic and structural properties of palladium-based Heusler superconductors. <i>Solid State Communications</i> , 2008, 145, 475-478.	0.9	54
52	Electronic structure calculations for $ZnFe_2O_4$. <i>Physical Review B</i> , 2011, 83, .	1.1	54
53	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
54	Completely compensated ferrimagnetism and sublattice spin crossing in the half-metallic Heusler compound $Mn_{1.5}FeVAl$. <i>Physical Review B</i> , 2017, 95, .	1.1	53

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55	Multiphoton photoemission electron microscopy using femtosecond laser radiation. Journal of Electron Spectroscopy and Related Phenomena, 2002, 126, 77-87.	0.8	50
56	Evidence of surface transport and weak antilocalization in a single crystal of the Bi_2Te_3 topological insulator. Physical Review B, 2014, 90, .	1.1	50
57	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
58	Electronic, magnetic, and structural properties of the ferrimagnet MnCoSn . Physical Review B, 2011, 83, .	1.1	48
59	Magnetic properties of $\text{Co}_2\text{Mn}_1-x\text{Fe}_x\text{Si}$ Heusler alloys. Journal Physics D: Applied Physics, 2006, 39, 786-792.	1.3	47
60	Detection of the valence band in buried $\text{Co}_2\text{MnSi}/\text{MgO}$ tunnel junctions by means of photoemission spectroscopy. Applied Physics Letters, 2008, 92, .	1.5	46
61	Heusler compounds as ternary intermetallic nanoparticles: Co_2FeGa . Journal Physics D: Applied Physics, 2009, 42, 084018.	1.3	46
62	Ultra-high mobility and nonsaturating magnetoresistance in Heusler topological insulators. Physical Review B, 2012, 86, .	1.1	45
63	Heusler nanoparticles for spintronics and ferromagnetic shape memory alloys. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2014, 32, .	0.6	45
64	Electronic structure of Pt based topological Heusler compounds with C1b structure and zero band gap. Applied Physics Letters, 2011, 98, 211901.	1.5	44
65	Doped semiconductors as half-metallic materials: Experiments and first-principles calculations of $\text{Co}_2\text{TiMo}_1\text{Sb}$.		

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73	Symmetry of Valence States of Heusler Compounds Explored by Linear Dichroism in Hard-X-Ray Photoelectron Spectroscopy. <i>Physical Review Letters</i> , 2011, 107, 036402.	2.9	37
74	Diluted magnetic semiconductors with high Curie temperature based on C1b compounds: $\text{CoTi}_{1-x}\text{Fe}_x\text{Sb}$. <i>Applied Physics Letters</i> , 2006, 89, 202509.	1.5	36
75	Probing the random distribution of half-metallic $\text{Co}_2\text{Mn}_{1-x}\text{Fe}_x\text{Si}$ Heusler alloys. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	36
76	Stoichiometry dependent phase transition in Mn-Co-Ga-based thin films: From cubic in-plane, soft magnetized to tetragonal perpendicular, hard magnetized. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	36
77	Signatures of Sixfold Degenerate Exotic Fermions in a Superconducting Metal PdSb_2 . <i>Advanced Materials</i> , 2020, 32, e1906046.	11.1	36
78	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
79	Structural properties of the quaternary Heusler alloy $\text{Co}_2\text{Cr}_{1-x}\text{Fe}_x\text{Al}$. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 1524-1533.	1.3	34
80	Thermoelectric properties of CoTiSb based compounds. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 185401.	1.3	34
81	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
82	Spin glass behavior in the disordered half-Heusler compound IrMnGa . <i>Physical Review B</i> , 2019, 99, .	1.1	34
83	Correlation in Heusler compounds YSi (Y=3d transition metal). <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 1626-1628.	1.0	32
84	Antiferromagnetic structure and electronic properties of BaCrMn_2 . <i>Physical Review B</i> , 2017, 95, .	1.1	32
85	Anomalous Hall effect and the role of Berry curvature in CoMn_2 Heusler films. <i>Physical Review B</i> , 2019, 100, .	1.2	32
86	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
87	Observation of Cu surface inhomogeneities by multiphoton photoemission spectromicroscopy. <i>Applied Physics Letters</i> , 2003, 83, 1503-1505.	1.5	30
88	An Alternative Approach to Improve the Thermoelectric Properties of Half-Heusler Compounds. <i>Journal of Electronic Materials</i> , 2011, 40, 702-706.	1.0	30
89	Magnetic and transport properties in the Heusler series $\text{Ni}_2\text{Mn}_{1+x}\text{Sn}$ affected by chemical disorder. <i>Intermetallics</i> , 2015, 57, 101-112.	1.8	30
90	Size correlated long and short range order of ternary Co_2FeGa Heusler nanoparticles. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	29

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91	Quaternary Heusler Compounds without Inversion Symmetry: $\text{CoFe}_{1+x}\text{Ti}^{\text{II}}\text{Al}$ and $\text{CoMn}_{1+x}\text{V}^{\text{II}}\text{Al}$. European Journal of Inorganic Chemistry, 2011, 2011, 3950-3954.	1.0	29
92	Quaternary Heusler compounds $\text{Co}_{2\tilde{x}}\text{Rh}_x\text{MnZ}$ (Z = Ga, Sn, Sb): crystal structure, electronic structure, and magnetic properties. Journal of Physics Condensed Matter, 2012, 24, 046001.	0.7	29
93	Half-Heusler materials as model systems for phase-separated thermoelectrics. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 716-731.	0.8	29
94	Magnetic dichroism in angle-resolved hard x-ray photoemission from buried layers. Physical Review B, 2011, 84, .	1.1	28
95	Probing the Size Effect of $\text{Co}_2\text{FeGaSiO}_2$ @C Nanocomposite Particles Prepared by a Chemical Approach. Chemistry of Materials, 2010, 22, 6575-6582.	3.2	27
96	Theoretical study of new acceptor and donor molecules based on polycyclic aromatic hydrocarbons. Journal of Molecular Spectroscopy, 2011, 265, 95-101.	0.4	27
97	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
98	Challenging the Prediction of Anionogenic Ferromagnetism for Rb_4O_6 . Journal of the American Chemical Society, 2007, 129, 6990-6991.	6.6	26
99	Investigation of the Thermoelectric Properties of LiAlSi and LiAlGe . Journal of Electronic Materials, 2010, 39, 1856-1860.	1.0	26
100	Probing the electronic states of high-TMR off-stoichiometric $\text{Co}_{m_1}\text{Mn}_{2m_2}\text{MnSi}$ thin films by hard x-ray photoelectron spectroscopy. Physical Review B, 2014, 89, .	1.1	26
101	Improving thermoelectric performance of TiNiSn by mixing MnNiSb in the half-Heusler structure. Physical Chemistry Chemical Physics, 2017, 19, 1543-1550.	1.3	26
102	Magnetic Heusler Compounds. Handbook of Magnetic Materials, 2013, , 1-75.	0.6	25
103	Disorder-induced cubic phase in $\text{Fe}_{m_1}\text{Mn}_{2m_2}\text{Mn}$ -based Heusler alloys. Physical Review B, 2013, 87, .	1.1	24
104	A Critical Study of the Elastic Properties and Stability of Heusler Compounds: Phase Change and Tetragonal X_2YZ Compounds. Journal of Modern Physics, 2018, 09, 775-805.	0.3	23
105	Exotic magnetism in the alkali sesquioxides Rb_4O_6 and Cs_4O_6 . Physical Review B, 2009, 79, .	1.1	22
106	Thermoelectric properties and electronic structure of substituted Heusler compounds: $\text{NiTi}_{0.3\tilde{x}}\text{Sc}_x\text{Zr}_{0.35}\text{Hf}_{0.35}\text{Sn}$. Applied Physics Letters, 2010, 97, .	1.5	22
107	Transport and optical properties of the gapless Heusler compound PtYSb . Applied Physics Letters, 2011, 99, .	1.5	22
108	Resolving the phase structure of nonstoichiometric Co_2FeGa Heusler nanoparticles. Journal of Applied Physics, 2012, 112, .	1.1	22

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109	Bulk electronic structure studied by hard X-ray photoelectron spectroscopy of the valence band: The case of intermetallic compounds. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 190, 249-267.	0.8	22
110	The structure and local surrounding of Fe in $\text{Co}_{2-x}\text{Fe}_{1+x}\text{Si}$. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	21
111	Magnetic and transport properties of tetragonal- or cubic-Heusler-type Co-substituted Mn-Ga epitaxial thin films. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	21
112	Magnetic and Electronic Properties of Weyl Semimetal Co_2MnGa Thin Films. <i>Nanomaterials</i> , 2021, 11, 251.	1.9	21
113	Structural and magnetic properties of Fe_2CoGa Heusler nanoparticles. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 295001.	1.3	20
114	Increasing Curie temperature in tetragonal Mn_2RhSn Heusler compound through substitution of Rh by Co and Mn by Rh. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	20
115	Magnetic properties and Curie temperatures of disordered Heusler compounds: $\text{Co}_{1-x}\text{Mn}_x$. <i>Physical Review B</i> , 2016, 94, .	1.1	20
116	Large Anomalous Hall and Nernst Effects in High Curie Temperature Iron-Based Heusler Compounds. <i>Advanced Science</i> , 2021, 8, e2100782.	5.6	20
117	Time-of-flight photoelectron spectromicroscopy of single MoS_2 nanotubes. <i>Journal of Applied Physics</i> , 2006, 100, 084330.	1.1	19
118	Evidence for localized moment picture in Mn-based Heusler compounds. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31707-31714.	1.3	19
119	Direct measurement of the magnetic anisotropy field in MnGa and CoGa Heusler films. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 164006.	1.3	19
120	Chemical disorder as an engineering tool for spin polarization in Mn_2Co Heusler systems. <i>Physical Review B</i> , 2015, 91, .	1.3	19
121	Chemical Synthesis and Characterization of $\text{Fe}_3\text{Co}_2\text{NiGa}$ Nanoparticles with a Very High Curie Temperature. <i>Chemistry of Materials</i> , 2015, 27, 6994-7002.	3.2	19
122	Size-dependent structural and magnetic properties of chemically synthesized Co-Ni-Ga nanoparticles. <i>Nano Research</i> , 2017, 10, 3421-3433.	5.8	19
123	A spatially resolved investigation of the local, micro-magnetic domain structure of single and polycrystalline Co_2FeSi . <i>Journal Physics D: Applied Physics</i> , 2007, 40, 1570-1575.	1.3	18
124	Hard x-ray photoelectron spectroscopy of buried Heusler compounds. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 084010.	1.3	18
125	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
126	A New Highly Anisotropic Rh_2Fe -Based Heusler Compound for Magnetic Recording. <i>Advanced Materials</i> , 2020, 32, 2004331.	11.1	18

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127	Dichroism in angular resolved VUV-photoemission from the (0001) surfaces of thin Gd and Nd films epitaxially grown on W(110). European Physical Journal B, 1999, 11, 161-175.	0.6	17
128	Transport and thermal properties of single- and polycrystalline NiZr _{0.5} Hf _{0.5} Sn. Applied Physics Letters, 2011, 99, 152112.	1.5	16
129	Spin-resolved low-energy and hard x-ray photoelectron spectroscopy of off-stoichiometric Co ₂ MnSi Heusler thin films exhibiting a record TMR. Journal Physics D: Applied Physics, 2015, 48, 164002.	1.3	16
130	Angular distributions and dichroism of photoelectrons ejected from fixed-in-space molecules of definite symmetry: Application to the C _{2v} symmetry group. Journal of Chemical Physics, 2002, 117, 7180-7197.	1.2	15
131	Bulk sensitive photo emission spectroscopy of compounds. Journal of Electron Spectroscopy and Related Phenomena, 2007, 156-158, 97-101.	0.8	15
132	Large topological Hall effect in an easy-cone ferromagnet (Cr _{0.9} B _{0.1})Te. Applied Physics Letters, 2020, 117, .	1.5	15
133	Electronic and magnetic properties of GdPdSb. Journal Physics D: Applied Physics, 2007, 40, 3024-3029.	1.3	14
134	Effects of random distribution of Mn,Fe in Co ₂ Mn _{1-x} FexSi Heusler compounds probed by Mn55 nuclear magnetic resonance. Journal of Applied Physics, 2008, 103, .	1.1	14
135	Charge transfer and tunable minority band gap at the Fermi energy of a quaternaryCo ₂ (MnxTi1-x)GeHeusler alloy. Physical Review B, 2010, 82, .	1.1	14
136	Electronic structure and nonsaturating magnetoresistance of superconducting Heusler topological insulators. Journal of Applied Physics, 2013, 113, 17E142.	1.1	14
137	Observation of a remarkable reduction of correlation effects in BaCr ₂ As ₂ by ARPES. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12425-12429.	3.3	14
138	Angular distributions of photoelectrons ejected from fixed-in-space molecules of C _{3v} symmetry group. Journal of Chemical Physics, 1999, 110, 9997-10007.	1.2	13
139	STATE OFCo ANDMn IN HALF-METALLIC FERROMAGNETCo₂MnSi EXPLORED BY MAGNETIC CIRCULAR DICHROISM IN HARD X-RAY PHOTOELECTRON EMISSION AND SOFT X-RAY ABSORPTION SPECTROSCOPIES. Spin, 2014, 04, 1440017.	0.6	13
140	A scheme for spin-selective electron localization in Mn ₃ Ga Heusler material. Journal Physics D: Applied Physics, 2015, 48, 164004.	1.3	13
141	Heteroepitaxial growth of tetragonal Mn _{2.7} xFe _x Ga _{1.3} (0 ≤ x ≤ 1.2) Heusler films with perpendicular magnetic anisotropy. APL Materials, 2017, 5, .	2.2	13
142	Pressure-induced transition to the collapsed tetragonal phase in $BaCr_2MnSi$ spinels. Physical Review B, 2017, 95, .	1.1	13
143	Are AuPdTM (T = Sc, Y and M = Al, Ga, In), Heusler Compounds Superconductors without Inversion Symmetry?. Materials, 2019, 12, 2580.	1.3	13
144	Structural properties of the quaternary Heusler compound Co ₂ Cr _{1-x} FexAl. Journal of Alloys and Compounds, 2006, 423, 159-162.	2.8	12

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145	A new diluted magnetic semiconductor: The half-metallic ferromagnet $\text{CoTi}_{1-x}\text{Fe}_x\text{Sb}$. Journal of Applied Physics, 2008, 103, 07D115.	1.1	12
146	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
147	Structural Implications of Spin, Charge, and Orbital Ordering in Rubidium Sesquioxide, Rb_4O_6 . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 1239-1246.	0.6	12
148	Spin and Orbital Magnetic Moments of FePt Thin Films. Japanese Journal of Applied Physics, 2006, 45, 2539-2541.	0.8	11
149	Electronic structure calculations in ordered and disordered solids with spiral magnetic order. Physical Review B, 2011, 83, .	1.1	11
150	A <i>p</i> -type Heusler compound: Growth, structure, and properties of epitaxial thin NiYBi films on MgO(100). Applied Physics Letters, 2012, 101, 212102.	1.5	11
151	Role of Magnetic Exchange Interactions in Chiral-Type Hall Effects of Epitaxial Mn_xPtSn Films. ACS Applied Electronic Materials, 2021, 3, 1323-1333.	2.0	11
152	Topological Hall effect arising from the mesoscopic and microscopic non-coplanar magnetic structure in MnBi. Acta Materialia, 2022, 226, 117619.	3.8	11
153	Angular and temperature dependence of the magnetic circular dichroism in 4d-core-level photoemission from Gd(0001). Physical Review B, 2002, 65, .	1.1	10
154	Electronic properties of Co_2MnSi thin films studied by hard x-ray photoelectron spectroscopy. Journal Physics D: Applied Physics, 2009, 42, 084011.	1.3	10
155	Electronic structure and symmetry of valence states of epitaxial NiTiSn and NiZr _{0.5} Hf _{0.5} Sn thin films by hard x-ray photoelectron spectroscopy. Applied Physics Letters, 2011, 99, .	1.5	10
156	Pressure induced insulator/half-metal/metal transition in a strongly correlated p -electron system. Physical Review B, 2012, 85, .	1.1	10
157	Electronic and crystalline structures of <i>zero band-gap</i> LuPdBi thin films grown epitaxially on MgO(100). Applied Physics Letters, 2013, 102, .	1.5	10
158	Miscibility Gap in the Phase Diagrams of Thermoelectric Half-Heusler Materials $\text{CoTi}_{1-x}\text{Y}_x$ ($Y = \text{Sc, V, Mn, Fe}$). Journal of Electronic Materials, 2016, 45, 1382-1388.	1.0	10
159	Influence of nanoscale order-disorder transitions on the magnetic properties of Heusler compounds for spintronics. Journal of Materials Chemistry C, 2017, 5, 4388-4392.	2.7	10
160	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
161	Tunable structural and magnetic properties of chemically synthesized dual-phase Co_2NiGa nanoparticles. Journal of Materials Chemistry C, 2016, 4, 7241-7252.	2.7	9
162	Basics and Prospectives of Magnetic Heusler Compounds. Springer Series in Materials Science, 2016, , 37-48.	0.4	9

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163	Investigation of the Mn ³⁺ /Ga/MgO interface for magnetic tunneling junctions. Journal of Applied Physics, 2014, 116, 034508.	1.1	8
164	Structural, electronic, and magnetic properties of perpendicularly magnetised Mn ₂ RhSn thin films. Journal Physics D: Applied Physics, 2015, 48, 164008.	1.3	8
165	Temperature-induced modification of the Dirac cone in the tetradymite topological insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2018, 98, .	1.1	8
166	Circular Dichroism in Photoemission from Non-Magnetic Materials. Japanese Journal of Applied Physics, 1999, 38, 582.	0.8	8
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