

Raphael Hermann

List of Publications by Year in descending order

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193
papers

5,893
citations

76196

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102304

66
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docs citations

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times ranked

7924
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase transitions in LaFeAsO: Structural, magnetic, elastic, and transport properties, heat capacity and Mössbauer spectra. <i>Physical Review B</i> , 2008, 78, .	1.1	284
2	Ferromagnetism Near Room Temperature in the Cleavable van der Waals Crystal Fe_5GeTe_2 . <i>ACS Nano</i> , 2019, 13, 4436-4442.	7.3	266
3	Einstein Oscillators in Thallium Filled Antimony Skutterudites. <i>Physical Review Letters</i> , 2003, 90, 135505.	2.9	179
4	Shape Induced Symmetry in Self-Assembled Mesocrystals of Iron Oxide Nanocubes. <i>Nano Letters</i> , 2011, 11, 1651-1656.	4.5	147
5	Lattice dynamics and structure of GeTe, SnTe and PbTe. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 1300-1307.	0.7	145
6	Charge Order, Dynamics, and Magnetostructural Transition in Multiferroic LuFe_2O_4 . <i>Physical Review Letters</i> , 2008, 101, 227602.	2.9	141
7	Role of Disorder in the Thermodynamics and Atomic Dynamics of Glasses. <i>Physical Review Letters</i> , 2014, 112, 025502.	2.9	125
8	Charge Order in $\text{LuFe}_4\text{O}_{12}$: Antiferroelectric Ground State and Coupling to Magnetism. <i>Physical Review Letters</i> , 2008, 101, 227601.	2.9	120
9	Phase Change Materials: Vibrational Softening upon Crystallization and Its Impact on Thermal Properties. <i>Advanced Functional Materials</i> , 2011, 21, 2232-2239.	7.8	120
10	Lattice dynamics in Bi_2Te_3 and Sb_2Te_3 . <i>Physical Review Letters</i> , 2008, 101, 227601.	1.1	114
11	Long-Range Antiferromagnetic Order in a Rocksalt High Entropy Oxide. <i>Chemistry of Materials</i> , 2019, 31, 3705-3711.	3.2	112
12	Influence of the rare-earth element on the effects of the structural and magnetic phase transitions in CeFeAsO , PrFeAsO and NdFeAsO . <i>New Journal of Physics</i> , 2009, 11, 025011.	1.2	109
13	Quantitative spatial magnetization distribution in iron oxide nanocubes and nanospheres by polarized small-angle neutron scattering. <i>New Journal of Physics</i> , 2012, 14, 013025.	1.2	100
14	Dumbbell Rattling in Thermoelectric Zinc Antimony. <i>Physical Review Letters</i> , 2007, 99, 125501.	2.9	96
15	Structure Characterization and Properties of K-Containing Copper Hexacyanoferrate. <i>Inorganic Chemistry</i> , 2016, 55, 5924-5934.	1.9	95
16	Electronegative guests in CoSb_3 . <i>Energy and Environmental Science</i> , 2016, 9, 2090-2098.	15.6	93
17	Paramagnon drag in high thermoelectric figure of merit Li-doped MnTe. <i>Science Advances</i> , 2019, 5, eaat9461.	4.7	90
18	Transition Metal Carbodiimides as Molecular Negative Electrode Materials for Lithium and Sodium Ion Batteries with Excellent Cycling Properties. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5090-5095.	7.2	86

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19	Strongly decoupled europium and iron vibrational modes in filled skutterudites. <i>Physical Review B</i> , 2005, 71, .	1.1	84
20	Lithium Iron Aluminum Nickelate, $\text{LiNi}_x\text{Fe}_y\text{Al}_z\text{O}_2$ – New Sustainable Cathodes for Next-Generation Cobalt-Free Li-Ion Batteries. <i>Advanced Materials</i> , 2020, 32, e2002960.	11.1	77
21	Direct Experimental Evidence for Atomic Tunneling of Europium in Crystalline $\text{Eu}_8\text{Ga}_{16}\text{Ge}_{30}$. <i>Physical Review Letters</i> , 2006, 97, 017401.	2.9	70
22	Effect of disorder on the thermal transport and elastic properties in thermoelectric Zn_4Sb_3 . <i>Physical Review B</i> , 2006, 74, .	1.1	66
23	Neutron and nuclear inelastic scattering study of the Einstein oscillators in Ba-, Sr-, and Eu-filled germanium clathrates. <i>Physical Review B</i> , 2005, 72, .	1.1	63
24	A chemists view: Metal oxides with adaptive structures for thermoelectric applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 808-823.	0.8	54
25	Synthetic, Structural, Magnetic, and Mössbauer Spectral Study of $\{\text{Fe}[\text{HC}(3,5\text{-Me}_2\text{pz})_3]_2\}_2$ and Its Spin-State Crossover Behavior. <i>European Journal of Inorganic Chemistry</i> , 2002, 2002, 1190-1197.	1.0	53
26	Room-temperature MBE deposition, thermoelectric properties, and advanced structural characterization of binary Bi_2Te_3 and Sb_2Te_3 thin films. <i>Journal of Alloys and Compounds</i> , 2012, 521, 163-173.	2.8	53
27	Milli-electronvolt monochromatization of hard X-rays with a sapphire backscattering monochromator. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 802-810.	1.0	52
28	Structural diversity in iron oxide nanoparticle assemblies as directed by particle morphology and orientation. <i>Nanoscale</i> , 2013, 5, 3969.	2.8	52
29	Study of the photocatalytic activity of Fe^{3+} , Cr^{3+} , La^{3+} and Eu^{3+} single-doped and co-doped TiO_2 catalysts produced by aqueous sol-gel processing. <i>Journal of Alloys and Compounds</i> , 2017, 691, 726-738.	2.8	52
30	$\text{LiNi}_x\text{Fe}_y\text{Al}_z\text{O}_2$, a new cobalt-free layered cathode material for advanced Li-ion batteries. <i>Journal of Power Sources</i> , 2020, 471, 228389.	4.0	52
31	Intrinsic anharmonic localization in thermoelectric PbSe . <i>Nature Communications</i> , 2019, 10, 1928.	5.8	51
32	Electronic Control of Spin Coupling in Keplerite-Type Polyoxomolybdates. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9080-9083.	7.2	50
33	Nanocrystalline silicon: lattice dynamics and enhanced thermoelectric properties. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 25701-25709.	1.3	49
34	Einstein oscillators that impede thermal transport. <i>American Journal of Physics</i> , 2005, 73, 110-118.	0.3	48
35	Reversible Li-Intercalation through Oxygen Reactivity in Li-Rich Li-Fe-Te Oxide Materials. <i>Journal of the Electrochemical Society</i> , 2015, 162, A1341-A1351.	1.3	47
36	Magnetic susceptibility applied as an age-depth-climate relative dating technique using sediments from Scladina Cave, a Late Pleistocene cave site in Belgium. <i>Journal of Archaeological Science</i> , 2004, 31, 283-293.	1.2	43

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37	Crystal chemistry of the hydrothermally synthesized $\text{Na}_2(\text{Mn}_{1-x}\text{Fe}_x)_2\text{Fe}_3(\text{PO}_4)_3$ alluaudite-type solid solution. <i>American Mineralogist</i> , 2005, 90, 653-662.	0.9	43
38	Fading of modern Prussian blue pigments in linseed oil medium. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 930.	1.6	43
39	2D to 3D crossover of the magnetic properties in ordered arrays of iron oxide nanocrystals. <i>Nanoscale</i> , 2013, 5, 953-960.	2.8	43
40	Physico-chemical and NMR relaxometric characterization of gadolinium hydroxide and dysprosium oxide nanoparticles. <i>Nanotechnology</i> , 2008, 19, 475102.	1.3	42
41	Paramagnetic nanoparticles as potential MRI contrast agents: characterization, NMR relaxation, simulations and theory. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2012, 25, 467-478.	1.1	42
42	Uncovering design principles for amorphous-like heat conduction using two-channel lattice dynamics. <i>Materials Today Physics</i> , 2021, 18, 100344.	2.9	42
43	Eu ₁₀ Mn ₆ Sb ₁₃ : A New Ternary Rare-Earth Transition-Metal Zintl Phase. <i>Inorganic Chemistry</i> , 2003, 42, 4660-4667.	1.9	41
44	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi mathvariant="normal" \rangle Fe \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 57 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle \text{M\u00e4ssbauer spectral and muon spin relaxation study of the magnetodynamics of monodispersed} \langle \text{mml:math} \rangle \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{\u00b9}^3 \langle \text{mml:mi} \rangle \langle \text{mml:mtext} \rangle \text{\u00b0} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Novel Complex Stacking of Fully-Ordered Transition Metal Layers in Li} \langle \text{mml:sub} \rangle 4 \langle \text{mml:sub} \rangle \text{FeSbO} \langle \text{mml:sub} \rangle 6 \langle \text{mml:sub} \rangle \text{Materials. Chemistry of Materials, 2015, 27, 1699-1708.}$	1.1	40
45	Novel Complex Stacking of Fully-Ordered Transition Metal Layers in $\text{Li}_4\text{FeSbO}_6$ Materials. <i>Chemistry of Materials</i> , 2015, 27, 1699-1708.	3.2	40
46	On the True Indium Content of In-Filled Skutterudites. <i>Inorganic Chemistry</i> , 2015, 54, 7818-7827.	1.9	40
47	Thermoelectric Figure-of-Merit of Fully Dense Single-Crystalline SnSe. <i>ACS Omega</i> , 2019, 4, 5442-5450.	1.6	40
48	Lattice dynamics in the FeSb_3 skutterudite. <i>Physical Review B</i> , 2011, 84, .	1.1	39
49	Antimony vibrations in skutterudites probed by ^{121}Sb nuclear inelastic scattering. <i>Physical Review B</i> , 2007, 76, .	1.1	37
50	Complex Magnetic Ordering in Eu_3InP_3 : A New Rare Earth Metal Zintl Compound. <i>Inorganic Chemistry</i> , 2005, 44, 2189-2197.	1.9	36
51	Highly dispersed iron xerogel catalysts for p-nitrophenol degradation by photo-Fenton effects. <i>Microporous and Mesoporous Materials</i> , 2014, 197, 164-173.	2.2	36
52	High frequency atomic tunneling yields ultralow and glass-like thermal conductivity in chalcogenide single crystals. <i>Nature Communications</i> , 2020, 11, 6039.	5.8	36
53	M\u00e4ssbauer spectral study of the magnetocaloric $\text{FeMnP}_1\text{As}_x$ compounds. <i>Physical Review B</i> , 2004, 70, .	1.1	35
54	Numerical simulation of a quantum particle in a box. <i>Journal of Physics A</i> , 1997, 30, 3967-3975.	1.6	33

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55	An X-ray Rietveld, infrared, and Mössbauer spectral study of the NaMn(Fe _{1-x} In _x) ₂ (PO ₄) ₃ alluaudite-type solid solution. American Mineralogist, 2003, 88, 211-222.		32
56	Study of the Structural, Electronic, and Magnetic Properties of the Barium-Rich Iron(IV) Oxides, Ba ₂ FeO ₄ and Ba ₃ FeO ₅ . Inorganic Chemistry, 2002, 41, 2834-2838.	1.9	31
57	Lattice instabilities in bulk EuTiO ₃ . Physical Review B, 2013, 88, .	1.1	31
58	Charge Order Superstructure with Integer Iron Valence in FeO ₂ . Physical Review Letters, 2007, 99, 086403.	2.9	30
59	Incommensurate Charge Order Phase in FeO ₂ to Geometrical Frustration. Physical Review Letters, 2007, 99, 256402.	2.9	30
60	Thermodynamic, thermoelectric, and magnetic properties of FeSb ₂ . Physical Review B, 2011, 84, .	1.1	30
61	Lattice dynamics in the thermoelectric Zintl compound YbMnSb ₁₄ . Physical Review B, 2013, 87, .	1.1	30
62	Tuning the structure and habit of iron oxide mesocrystals. Nanoscale, 2016, 8, 15571-15580.	2.8	29
63	Spray-drying synthesis of Na ₂ FePO ₄ F/carbon powders for lithium-ion batteries. Materials Letters, 2014, 130, 263-266.	1.3	28
64	Sb ₂ Te ₃ and Bi ₂ Te ₃ Thin Films Grown by Room-Temperature MBE. Journal of Electronic Materials, 2012, 41, 1493-1497.	1.0	27
65	Na ₂ FePO ₄ F/multi-walled carbon nanotubes for lithium-ion batteries: Operando Mössbauer study of spray-dried composites. Solar Energy Materials and Solar Cells, 2016, 148, 67-72.	3.0	27
66	Studying fatigue behavior and Poisson's ratio of bulk-metallic glasses. Intermetallics, 2007, 15, 663-667.	1.8	26
67	Comparison of functionalized carbon nanofibers and multi-walled carbon nanotubes as supports for Fe ²⁺ /Co nanoparticles. Journal of Materials Chemistry A, 2013, 1, 2050-2063.	5.2	26
68	Europium mixed-valence, long-range magnetic order, and dynamic magnetic response in EuCu ₂ Mn ₂ . Physical Review B, 2016, 94, .	1.1	26
69	Phonons, magnons, and lattice thermal transport in antiferromagnetic semiconductor MnTe. Physical Review Materials, 2019, 3, .	0.9	25
70	Magnetic and electronic properties of Eu ₄ Sr ₄ Ga ₁₆ Ge ₃₀ . Physical Review B, 2006, 73, .	1.1	24
71	Colossal positive magnetoresistance in a doped nearly magnetic semiconductor. Physical Review B, 2008, 77, .	1.1	24
72	NMR relaxation and magnetic properties of superparamagnetic nanoworms. Contrast Media and Molecular Imaging, 2010, 5, 318-322.	0.4	24

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73	Spray-drying as a tool to disperse conductive carbon inside Na ₂ FePO ₄ F particles by addition of carbon black or carbon nanotubes to the precursor solution. Journal of Solid State Electrochemistry, 2018, 22, 103-112.	1.2	24
74	A structural, magnetic and Mössbauer spectral study of the magnetocaloric Mn _{1.1} Fe _{0.9} P ₁ Ge ₁ compounds. Journal of Physics Condensed Matter, 2008, 20, 475206.	0.7	23
75	Effects of impurities on the lattice dynamics of nanocrystalline silicon for thermoelectric application. Journal of Materials Science, 2013, 48, 2836-2845.	1.7	23
76	Local ordering and magnetism in Ga _{0.9} Fe _{3.1} N. Journal of Solid State Chemistry, 2011, 184, 2315-2321.	1.4	22
77	The Electrochemical Sodiation of Sb Investigated by Operando X-ray Absorption and ¹²¹ Sb Mössbauer Spectroscopy: What Does One Really Learn?. Batteries, 2018, 4, 25.	2.1	20
78	Evaluation of electrochemical performance and redox activity of Fe in Ti doped layered P2-Na _{0.67} Mn _{0.5} Fe _{0.5} O ₂ cathode for sodium ion batteries. Electrochimica Acta, 2021, 380, 138156.	2.6	20
79	Mössbauer spectral evidence for next-nearest neighbor interactions within the alluaudite structure of Na _{1-x} LixMnFe ₂ (PO ₄) ₃ . Solid State Sciences, 2002, 4, 507-513.	1.5	19
80	Nuclear forward and inelastic spectroscopy on ¹²⁵ Te and ¹²⁵ Te ₃ . Europhysics Letters, 2010, 91, 62001.	0.7	19
81	Microstructure analyses and thermoelectric properties of Ag ₁ Mo ₂ . Journal of Solid State Chemistry, 2012, 193, 58-63.	1.4	19
82	Nanostructure, Excitations, and Thermoelectric Properties of Bi ₂ Te ₃ -Based Nanomaterials. Journal of Electronic Materials, 2012, 41, 1792-1798.	1.0	19
83	Interpenetrated (8,3)-c and (10,3)-b Metal-Organic Frameworks Based on {Fe ^{III} }_3 and {Fe ^{III} }_2Co ^{II} Pivalate Spin Clusters. Crystal Growth and Design, 2014, 14, 4721-4728.	1.4	19
84	A Mössbauer spectral study of degradation in La _{0.58} Sr _{0.4} Fe _{0.5} Co _{0.5} O ₃ after long-term operation in solid oxide electrolysis cells. Solid State Ionics, 2017, 312, 38-43.	1.3	19
85	Spin correlations in the extended hagnome system YBaCo ₃ Fe ₃ . Journal of Solid State Chemistry, 2017, 312, 38-43.	1.1	18
86	Microstructures and nanostructures in long-term annealed AgPb ₁₈ SbTe ₂₀ (LAST-18) compounds and their influence on the thermoelectric properties. Journal of Materials Research, 2011, 26, 1800-1812.	1.2	18
87	A density-functional study on the electronic and vibrational properties of layered antimony telluride. Journal of Physics Condensed Matter, 2015, 27, 085402.	0.7	18
88	Eu ₉ Cd ₄ CM ₂₊ â€“ _{ij} Sb ₉ : Ca ₉ Mn ₄ Bi ₉ -Type Structure Stuffed with Coinage Metals (Cu, Ag). Inorganic Chemistry, 2015, 54, 850-859.	1.9	18
89	From thermoelectric bulk to nanomaterials: Current progress for Bi ₂ Te ₃ and CoSb ₃ . Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 739-749.	0.8	18
90	Material properties of perovskites in the quasi-ternary system LaFeO ₃ â€“LaCoO ₃ â€“LaNiO ₃ . Journal of Solid State Chemistry, 2016, 237, 183-191.	1.4	18

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91	The Electrochemical Sodiation of FeSb ₂ : New Insights from Operando ⁵⁷ Fe Synchrotron Mössbauer and X-Ray Absorption Spectroscopy. Batteries and Supercaps, 2019, 2, 66-73.	2.4	18
92	Thermal acoustic excitations with atomic-scale wavelengths in amorphous silicon. Physical Review Materials, 2019, 3, .	0.9	18
93	Weak ferromagnetism in $\text{Fe}_2\text{Si}_2\text{O}_7$. Physical Review B, 2007, 76, .		
94	Elasticity and magnetocaloric effect in $\text{MnFe}_4\text{O}_{10}$. Physical Review B, 2016, 93, .		
95	Giant isotope effect on phonon dispersion and thermal conductivity in methylammonium lead iodide. Science Advances, 2020, 6, eaaz1842.	4.7	17
96	Anisotropic lattice dynamics and intermediate-phase magnetism in delafossite CuFeO_2 . Physical Review B, 2015, 92, .		
97	Magnetic and Mössbauer spectral study of ErFe ₁₁ Ti and ErFe ₁₁ TiH. Journal of Applied Physics, 2003, 93, 3414-3421.	1.1	15
98	A study of low-energy guest phonon modes in clathrate-II Na _x Si ₁₃₆ ($x = 3, 23, \text{ and } 24$). Journal of Physics Condensed Matter, 2010, 22, 355401.	0.7	15
99	Phonon spectroscopy in a Bi ₂ Te ₃ nanowire array. Nanoscale, 2013, 5, 10629.	2.8	15
100	Lattice dynamics in intermetallic Mg ₂ Ge and Mg ₂ Si. Journal of Physics Condensed Matter, 2014, 26, 485401.	0.7	15
101	Quenching rattling modes in skutterudites with pressure. Physical Review B, 2015, 91, .	1.1	15
102	Spin disorder in maghemite nanoparticles investigated using polarized neutrons and nuclear resonant scattering. Journal of Physics: Conference Series, 2016, 711, 012002.	0.3	15
103	Magnetic interactions in NiO at ultrahigh pressure. Physical Review B, 2016, 93, .	1.1	15
104	Oxidation and associated pore structure modification during experimental alteration of granite. Geochimica Et Cosmochimica Acta, 2021, 292, 532-556.	1.6	15
105	Deep Bayesian local crystallography. Npj Computational Materials, 2021, 7, .	3.5	15
106	¹²⁹ Xe nuclear resonance scattering on solid Xe and ¹²⁹ Xe clathrate hydrate. Europhysics Letters, 2013, 103, 36001.	0.7	14
107	Magnetism and lattice dynamics of FeNCN compared to FeO. New Journal of Chemistry, 2014, 38, 4670-4677.	1.4	14
108	One-step hydrothermal synthesis and electrochemical performance of sodium-manganese-iron phosphate as cathode material for Li-ion batteries. Journal of Solid State Chemistry, 2017, 253, 389-397.	1.4	14

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109	Supersonic propagation of lattice energy by phasons in fresnoite. Nature Communications, 2018, 9, 1823.	5.8	14
110	Self-Assembled Room Temperature Multiferroic BiFeO_3 - LiFeO_5 - O_8 Nanocomposites. Advanced Functional Materials, 2020, 30, 1906849.	7.8	14
111	Tuning the room temperature ferromagnetism in Fe_5GeTe_2 by arsenic substitution. 2D Materials, 2022, 9, 015013.	2.0	14
112	A Europium-151 Mössbauer Spectral Study of $\text{Eu}_{14}\text{MnP}_{11}$, $\text{Eu}_{14}\text{MnAs}_{11}$, and $\text{Eu}_{14}\text{MnSb}_{11}$. Inorganic Chemistry, 2004, 43, 7005-7013.	1.9	13
113	Crystal structure and high-temperature properties of the Ruddlesden-Popper phases $\text{Sr}_3\text{Y}(\text{Fe}_{1.25}\text{Ni}_{0.75})\text{O}_{7\lambda}$ ($0 \leq \lambda \leq 0.75$). Journal of Solid State Chemistry, 2015, 227, 45-54.	1.4	13
114	Ba-filled NiSbSn based skutterudites with anomalously high lattice thermal conductivity. Dalton Transactions, 2016, 45, 11071-11100.	1.6	13
115	Calcium-Iron Oxide as Energy Storage Medium in Rechargeable Oxide Batteries. Journal of the American Ceramic Society, 2016, 99, 4083-4092.	1.9	13
116	Electronic structure of thallium filled skutterudites studied by x-ray absorption and Mössbauer spectroscopy. Journal of Applied Physics, 2002, 92, 7236-7241.	1.1	12
117	A structural, infrared, and Mossbauer spectral study of rosemaryite, $\text{NaMnFe}_3\text{Al}(\text{PO}_4)_3$. European Journal of Mineralogy, 2006, 18, 775-785.	0.4	12
118	Toward understanding the lithiation/delithiation process in $\text{Fe}_0.5\text{TiOPO}_4/\text{C}$ electrode material for lithium-ion batteries. Solar Energy Materials and Solar Cells, 2016, 148, 11-19.	3.0	12
119	Operando X-ray absorption spectroscopy applied to battery materials at ICGM: The challenging case of BiSb 's sodiation. Energy Storage Materials, 2019, 21, 1-13.	9.5	12
120	Understanding and design of spin-driven thermoelectrics. Cell Reports Physical Science, 2021, 2, 100614.	2.8	12
121	A magnetic and Mössbauer spectral study of $\text{TbFe}_{11}\text{Ti}$ and $\text{TbFe}_{11}\text{TiH}$. Journal of Physics Condensed Matter, 2003, 15, 7395-7409.	0.7	11
122	Antimony-121 Mössbauer Spectral Study of the $\text{Eu}_{14}\text{MnSb}_{11}$ and $\text{Yb}_{14}\text{MnSb}_{11}$ Zintl Compounds. Inorganic Chemistry, 2007, 46, 10736-10740.	1.9	11
123	Syntheses, Structure, and a Mössbauer and Magnetic Study of $\text{Ba}_4\text{Fe}_2\text{I}_5\text{S}_4$. Inorganic Chemistry, 2008, 47, 94-100.	1.9	11
124	Äbergangsmetallcarbodiimide als molekulare negative Elektrodenmaterialien für Li - und Na -Ionenbatterien mit hervorragendem Zyklisierungsverhalten. Angewandte Chemie, 2016, 128, 5174-5179.	1.6	11
125	Rocking curve imaging of high quality sapphire crystals in backscattering geometry. Journal of Applied Physics, 2017, 121, .	1.1	11
126	Tuning color through sulfur and fluorine substitutions in the defect tin(II, IV) niobate pyrochlores. Solid State Sciences, 2018, 81, 32-42.	1.5	11

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127	Thermal Evolution of Internal Strain in Doped PbTe. Chemistry of Materials, 2021, 33, 4765-4772.	3.2	11
128	Spin dynamics and a nearly continuous magnetic phase transition in an entropy-stabilized oxide antiferromagnet. Physical Review Materials, 2020, 4, .	0.9	11
129	Real-space visualization of short-range antiferromagnetic correlations in a magnetically enhanced thermoelectric. Matter, 2022, 5, 1853-1864.	5.0	11
130	Determination of the Antimony Valence State in Eu ₁₀ Mn ₆ Sb ₁₃ . Inorganic Chemistry, 2004, 43, 1229-1234.	1.9	10
131	The Dynamics of the Guests in Filled Germanium Clathrates. Materials Research Society Symposia Proceedings, 2005, 886, 1.	0.1	10
132	Lattice dynamics and anomalous softening in the YbFe ₄ Sb ₁₂ . Physical Review B, 2011, 84, .	1.1	10
133	Coexistence of long range magnetic order and intervalent state of Eu in EuCu ₂ (Si _{1-x} Ge _{1+x}) ₂ : Evidence from neutron diffraction and spectroscopic studies. JETP Letters, 2014, 99, 164-168.	0.4	10
134	The Fe ^{4+/3+} Redox Mechanism in NaFeO ₂ : A Simultaneous Operando Nuclear Resonance and X-ray Scattering Study. Batteries and Supercaps, 2020, 3, 1341-1349.	2.4	10
135	A Mössbauer spectral study of the GdCo _{4-x} Fe _x B compounds. Journal of Applied Physics, 2007, 101, 023917.	1.1	9
136	Effect of pressure, temperature, fluorine doping, and rare earth elements on the phonon density of states of L ₁ FeAsO studied by nuclear inelastic scattering. Physical Review B, 2013, 87, .	1.1	9
137	Spin excitations in cubic maghemite nanoparticles studied by time-of-flight neutron spectroscopy. Physical Review B, 2014, 89, .	1.1	9
138	Thermoelectric properties of the unfilled skutterudite FeSb ₃ : First principles and Seebeck local probes. Physical Review B, 2015, 92, .	1.1	9
139	Single-crystal sapphire microstructure for high-resolution synchrotron X-ray monochromators. Crystal Research and Technology, 2016, 51, 290-298.	0.6	9
140	A Catastrophic Charge Density Wave in BaFe ₂ Al ₉ . Chemistry of Materials, 2021, 33, 2855-2863.	3.2	9
141	CHES: The future direct geometry spectrometer at the second target station. Review of Scientific Instruments, 2022, 93, .	0.6	9
142	A Mössbauer spectral study of the YCo _{4-x} Fe _x B compounds. Journal of Physics Condensed Matter, 2006, 18, 10765-10773.	0.7	8
143	Antimony-121 Mössbauer Spectral Study of Î±-Zn ₄ Sb ₃ . Inorganic Chemistry, 2007, 46, 767-770.	1.9	8
144	Wet Chemical Synthesis and a Combined X-ray and Mössbauer Study of the Formation of FeSb ₂ Nanoparticles. Inorganic Chemistry, 2011, 50, 11807-11812.	1.9	8

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