Hans Hagemann

List of Publications by Year
in descending order

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188	5,896	71102 41	95266 68
papers	citations	h-index	g-index

210	210	210	4295
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magnesium Borohydride: Synthesis and Crystal Structure. Angewandte Chemie - International Edition, 2007, 46, 5765-5767.	13.8	182
2	Structural and spectroscopic studies on the alkali borohydrides MBH4 (M = Na, K, Rb, Cs). Journal of Alloys and Compounds, 2004, 375, 98-106.	5.5	176
3	Porous and Dense Magnesium Borohydride Frameworks: Synthesis, Stability, and Reversible Absorption of Guest Species. Angewandte Chemie - International Edition, 2011, 50, 11162-11166.	13.8	175
4	Electron-Phonon Interaction and Charge Carrier Mass Enhancement in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2008, 100, 226403.	7.8	174
5	Structure and properties of complex hydride perovskite materials. Nature Communications, 2014, 5, 5706.	12.8	168
6	Insight into Mg(BH₄)₂ with Synchrotron X-ray Diffraction: Structure Revision, Crystal Chemistry, and Anomalous Thermal Expansion. Chemistry of Materials, 2009, 21, 925-933.	6.7	164
7	LiSc(BH₄)₄: A Novel Salt of Li⁺ and Discrete Sc(BH₄)₄^{â^'} Complex Anions. Journal of Physical Chemistry A, 2008, 112, 7551-7555.	2.5	154
8	NaSc(BH₄)₄: A Novel Scandium-Based Borohydride. Journal of Physical Chemistry C, 2010, 114, 1357-1364.	3.1	137
9	A highly stable sodium solid-state electrolyte based on a dodeca/deca-borate equimolar mixture. Chemical Communications, 2017, 53, 4195-4198.	4.1	137
10	Raman spectra of single crystal CuO. Solid State Communications, 1990, 73, 447-451.	1.9	133
11	Pressure and Temperature Influence on the Desorption Pathway of the LiBH₄â^'MgH₂ Composite System. Journal of Physical Chemistry C, 2010, 114, 15212-15217.	3.1	127
12	A stable 3 V all-solid-state sodiumâ€“ion battery based on a closo-borate electrolyte. Energy and Environmental Science, 2017, 10, 2609-2615.	30.8	120
13	Structure and Properties of NaBH₄Â·2H₂O and NaBH₄. European Journal of Inorganic Chemistry, 2008, 2008, 3127-3133.	2.0	115
14	Status and prospects of hydroborate electrolytes for all-solid-state batteries. Energy Storage Materials, 2020, 25, 782-794.	18.0	112
15	Lithium boro-hydride LiBH4. Journal of Alloys and Compounds, 2002, 346, 206-210.	5.5	108
16	Synthesis of a Bimetallic Dodecaborate LiNaB₁₂H₁₂ with Outstanding Superionic Conductivity. Chemistry of Materials, 2015, 27, 5483-5486.	6.7	97
17	Structure and Characterization of KSc(BH₄)₄. Journal of Physical Chemistry C, 2010, 114, 19540-19549.	3.1	95
18	Raman studies of reorientation motions of [BH4]â^' anionsin alkali borohydrides. Journal of Alloys and Compounds, 2004, 363, 129-132.	5.5	92

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19	Structure and crystallization of n-C21H44, n-C36H74, and low-molecular-weight polyethylene glasses. Macromolecules, 1987, 20, 2810-2819.	4.8	87
20	FT-IR spectra of inorganic borohydrides. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 128, 902-906.	3.9	83
21	Synthetic approaches to inorganic borohydrides. Dalton Transactions, 2010, 39, 6006.	3.3	81
22	The First Crystallographic and Spectroscopic Characterization of a 3d-Metal Borohydride: Mn(BH₄)₂. Journal of Physical Chemistry C, 2009, 113, 9003-9007.	3.1	77
23	Bimetallic Borohydrides in the System M(BH₄)₂â€“KBH₄ (M = Mg, Mn): On the Structural Diversity. Journal of Physical Chemistry C, 2012, 116, 10829-10840.	3.1	69
24	Electrochemical Oxidative Stability of Hydroborate-Based Solid-State Electrolytes. ACS Applied Energy Materials, 2019, 2, 6924-6930.	5.1	68
25	Effects of milling, doping and cycling of NaAlH4 studied by vibrational spectroscopy and X-ray diffraction. Journal of Alloys and Compounds, 2005, 390, 305-313.	5.5	67
26	Al₃Li₄(BH₄)₁₃: A Complex Doubleâ€Cation Borohydride with a New Structure. Chemistry - A European Journal, 2010, 16, 8707-8712.	3.3	66
27	4 V room-temperature all-solid-state sodium battery enabled by a passivating cathode/hydroborate solid electrolyte interface. Energy and Environmental Science, 2020, 13, 5048-5058.	30.8	61
28	Pronounced Electrochemical Amphotericity of a Fused Donorâ€“Acceptor Compound: A Planar Merge of TTF with a TCNQâ€Type Bithienoquinoxaline. Chemistry - A European Journal, 2009, 15, 63-66.	3.3	58
29	Spectroscopic Study of a Single Crystal of SrAl₂O₄:Eu²⁺:Dy³⁺. Journal of Physical Chemistry C, 2019, 123, 8607-8613.	3.1	57
30	Solvent and Spectral Effects in the Ultrafast Charge Recombination Dynamics of Excited Donorâˆ’Acceptor Complexes. Journal of Physical Chemistry A, 2008, 112, 594-601.	2.5	54
31	Ionic Conduction Mechanism in the Na₂(B₁₂H₁₂)_{0.5}(B₁₀H₁₀)_{0.5} closo-Borate Solid-State Electrolyte: Interplay of Disorder and Ionâ€Ion Interactions. Chemistry of Materials, 2019, 31, 3449-3460.	6.7	54
32	Vibrational Spectra of Ca(BH4)2. Journal of Physical Chemistry C, 2008, 112, 11575-11579.	3.1	53
33	AZn2(BH4)5(A = Li, Na) and NaZn(BH4)3: Structural Studies. Journal of Physical Chemistry C, 2010, 114, 19127-19133.	3.1	53
34	Hydrogenâ€“fluorine exchange in NaBH4â€“NaBF4. Physical Chemistry Chemical Physics, 2013, 15, 18185.	2.8	52
35	Crystallization of closo-borate electrolytes from solution enabling infiltration into slurry-casted porous electrodes for all-solid-state batteries. Energy Storage Materials, 2020, 26, 543-549.	18.0	50
36	Nuclear Magnetic Resonance Study of Reorientational Motion in Î±-Mg(BH₄)₂. Journal of Physical Chemistry C, 2010, 114, 12370-12374.	3.1	49

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37	MgxMn(1â˜'x)(BH4)2 (x=0â€"0.8), a cation solid solution in a bimetallic borohydride. Acta Materialia, 2011, 59, 5171-5180.	7.9	47
38	Experimental Raman scattering investigation of phonon anharmonicity effects in. Journal of Physics Condensed Matter, 1998, 10, 2155-2169.	1.8	46
39	Oxadiazole based bipolar host materials employing planarized triarylamine donors for RGB PHOLEDs with low efficiency roll-off. Journal of Materials Chemistry C, 2014, 2, 2069-2081.	5.5	43
40	Lattice anharmonicity and structural evolution of LiBH₄: an insight from Raman and X-ray diffraction experiments. Phase Transitions, 2009, 82, 344-355.	1.3	42
41	Effect of additives on the synthesis and reversibility of Ca(BH4)2. Journal of Alloys and Compounds, 2010, 493, 281-287.	5.5	41
42	Thermal and concentration dependent energy transfer of Eu^2+ in SrAl_2O_4. Optical Materials Express, 2016, 6, 793.	3.0	37
43	Polarized Raman spectra of beryl and bazzite. Physics and Chemistry of Minerals, 1990, 17, 395.	0.8	36
44	The influence of boric acid on improved persistent luminescence and thermal oxidation resistance of SrAl2O4:Eu2+. Journal of Luminescence, 2015, 167, 126-131.	3.1	36
45	Dynamics of the Coordination Complexes in a Solid-State Mg Electrolyte. Journal of Physical Chemistry Letters, 2018, 9, 6450-6455.	4.6	36
46	Fermi Resonances of Borohydrides in a Crystalline Environment of Alkali Metals. Journal of Physical Chemistry A, 2006, 110, 9927-9933.	2.5	35
47	Europium doped BaMgF4, an EPR and optical investigation. Journal of Alloys and Compounds, 1998, 268, 60-65.	5.5	33
48	Polarized Raman and hyperpolarizability studies of Hydroxyethylammonium (l) tartrate monohydrate for quadratic nonlinear optics. Journal of Molecular Structure, 2011, 988, 17-23.	3.6	33
49	NMR Study of Reorientational Motion in Alkaline-Earth Borohydrides: Î² and Î³ Phases of Mg(BH₄)₂ and Î± and Î² Phases of Ca(BH₄)₂. Journal of Physical Chemistry C, 2012, 116, 4913-4920.	3.1	33
50	A mixed-cation mixed-anion borohydride NaY(BH4)2Cl2. International Journal of Hydrogen Energy, 2012, 37, 8428-8438.	7.1	33
51	Unusual behavior of the Gd ESR in single crystals of GdyY1â˜'yBa2Cu3O6+x with x=0.1â˜'0.8 and y=0.03â˜'0.06: Evidence for magnetic interaction in the superconductors. Physica C: Superconductivity and Its Applications, 1989, 161, 13-20.	1.2	31
52	Growth of single crystals, thermal dependency of lattice parameters and Raman scattering in the Nd2-xCexCuO4-Î´ system. Physica C: Superconductivity and Its Applications, 1990, 170, 103-111.	1.2	31
53	A theoretical study of the spectroscopic properties of B<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" overflow="scroll"><mml:mrow><mml:msubsup><mml:mtext>H</mml:mtext><mml:mi>y</mml:mi><mml:mrow><mml:mi>z</mml:mi></mml:mrow></mml:msubsup></mml:mrow></mml:math> species (xÂ=Â1â˜'12, yÂ=Â3â˜'14, zÂ=Â0â˜'2): From BH3 to B12<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msubsup><mml:mtext>H</mml:mtext>	7.1	31
54	Wavelength dependent loading of traps in the persistent phosphor SrAl2O4:Eu2+, Dy3+. Journal of Luminescence, 2016, 170, 299-304.	3.1	31

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55	Nanostructured thin-film tungsten trioxide photoanodes for solar water and sea-water splitting. , 2006, , .		30
56	Fluoride substitution in LiBH₄; destabilization and decomposition. Physical Chemistry Chemical Physics, 2017, 19, 30157-30165.	2.8	30
57	Quantitative Assessment of Bâ^'Bâ^'B, Bâ^'H_bâ^'B, and Bâ^'H_t Bonds: From BH₃ to B₁₂H₁₂^{2â^'}. ChemPhysChem, 2019, 20, 1967-1977.	2.1	30
58	New fundamental experimental studies on Î±-Mg(BH4)2 and other borohydrides. Journal of Alloys and Compounds, 2011, 509, S688-S690.	5.5	29
59	An alternative approach to the synthesis of NaB3H8 and Na2B12H12 for solid electrolyte applications. International Journal of Hydrogen Energy, 2017, 42, 22417-22421.	7.1	29
60	Single crystal ESR studies on tetragonal YBa2Cu3O6+x. Physica C: Superconductivity and Its Applications, 1989, 158, 424-432.	1.2	27
61	Thermal Desorption, Vibrational Spectroscopic, and DFT Computational Studies of the Complex Manganese Borohydrides Mn(BH₄)₂ and [Mn(BH₄)₄]^{2â^'}. Journal of Physical Chemistry C, 2010, 114, 15516-15521.	3.1	27
62	Low-lying phonons in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>NaBH</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:m by inelastic scattering of synchrotron radiation. Physical Review B, 2008, 78, .	3.2	26
63	Halide Free M(BH₄)₂ (M = Sr, Ba, and Eu) Synthesis, Structure, and Decomposition. Inorganic Chemistry, 2016, 55, 7090-7097.	4.0	26
64	Direct Solutionâ€Based Synthesis of Na₄(B₁₂H₁₂)(B₁₀H₁₀) Solid Electrolyte. ChemSusChem, 2019, 12, 4832-4837.	6.8	26
65	Probing traps in the persistent phosphor SrAl2O4:Eu2+,Dy3+,B3+ - A wavelength, temperature and sample dependent thermoluminescence investigation. Journal of Luminescence, 2020, 222, 117113.	3.1	26
66	Inhomogeneous broadening of optical spectra in mixed crystals: Basic model and its application to Sm2+in SrFClxBr1â^'x. Journal of Chemical Physics, 1994, 101, 10323-10337.	3.0	25
67	Synthesis and Structure of Ba12F19Cl5. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1996, 622, 343-347.	1.2	25
68	Synthesis and Structure of Ba7F12Cl2. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1999, 625, 643-649.	1.2	25
69	Effect of temperature and pressure on emission lifetime of Sm2+ ion doped in MFX (M=Sr, Ba; X=Br, I) crystals. Journal of Luminescence, 2013, 142, 66-74.	3.1	25
70	Boron Hydrogen Compounds: Hydrogen Storage and Battery Applications. Molecules, 2021, 26, 7425.	3.8	25
71	Novel sodium aluminium borohydride containing the complex anion [Al(BH4,Cl)4]â^'. Faraday Discussions, 2011, 151, 231.	3.2	24
72	Experimental evidence of librational vibrations determining the stability of calcium borohydride. Physical Review B, 2011, 83, .	3.2	24

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73	The influence of silica surface groups on the Li-ion conductivity of LiBH₄/SiO₂ nanocomposites. Physical Chemistry Chemical Physics, 2019, 21, 22456-22466.	2.8	24
74	The Periodateâ€Based Double Perovskites M₂NaIO₆ (M = Ca, Sr, and) Tj ETQq0 0 0 rgBT /Overlo	1.2	23
75	Deuteriumâ^'Hydrogen Exchange in Solid Mg(BH₄)₂. Journal of Physical Chemistry C, 2010, 114, 10045-10047.	3.1	22
76	Crystal Chemistry in the Barium Fluoride Chloride System. Crystal Growth and Design, 2012, 12, 1124-1131.	3.0	22
77	Improved persistent luminescence of CaTiO3:Pr by fluorine substitution and thermochemical treatment. Journal of Alloys and Compounds, 2014, 613, 338-343.	5.5	22
78	Pressure-induced phase transitions in Na₂B₁₂H₁₂, structural investigation on a candidate for solid-state electrolyte. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 406-413.	1.1	22
79	A Vibrational Study of Some 1,2,4-Trioxanes. Helvetica Chimica Acta, 1988, 71, 992-999.	1.6	19
80	Crystallochemical study of mixed strontium-barium fluorohalides. Materials Research Bulletin, 1993, 28, 353-362.	5.2	19
81	Observation of ESR in the Bi high-Tc superconductors. Physica C: Superconductivity and Its Applications, 1989, 157, 240-246.	1.2	18
82	Where does the Raman optical activity of [Rh(en)₃]³⁺ come from? Insight from a combined experimental and theoretical approach. Physical Chemistry Chemical Physics, 2014, 16, 23260-23273.	2.8	18
83	Reaction Pathways in Ca(BH4)2â€"NaNH2 and Mg(BH4)2â€"NaNH2 Hydrogen-Rich Systems. Journal of Physical Chemistry C, 2016, 120, 8428-8435.	3.1	18
84	Spectroscopic properties of Dy3+- and Dy3+, B3+- doped SrAl2O4. Optical Materials, 2019, 89, 268-275.	3.6	18
85	Study of the TâŠ—t Jahn-Teller effect : ESR of Ag2+ in the alkaline earth fluorides. Solid State Communications, 1989, 70, 511-516.	1.9	17
86	Ionic layered BaFCl and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Ba</mml:mtext></mml:mrow><mml:mrow><mml:mn>	3.2	17
	Physical- and chemical-pressure effects. Physical Review B, 2010, 82, .		
87	CO 2 -promoted hydrolysis of KBH 4 for efficient hydrogen co-generation. International Journal of Hydrogen Energy, 2014, 39, 19603-19608.	7.1	17
88	Thermal Conversion of Unsolvated Mg(B₃H₈)₂ to BH₄^{â€"} in the Presence of MgH₂. ACS Applied Energy Materials, 2021, 4, 3737-3747.	5.1	17
89	Synthesis, crystal structures and spectroscopic investigations on samarium-doped mixed Ba1 â^' gdSrÎ´MgF4 crystals. Materials Research Bulletin, 1997, 32, 263-269.	5.2	16
90	transitions of Sm2+ in SrMgF4:Sm2+. Journal of Alloys and Compounds, 2004, 374, 194-196.	5.5	16

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91	Sm2+ as a probe of crystal field in fluorides and fluorohalides: Effect of pressure and temperature. Journal of Alloys and Compounds, 2008, 451, 74-76.	5.5	16
92	Cation Size and Anion Anisotropy in Structural Chemistry of Metal Borohydrides. The Peculiar Pressure Evolution of RbBH₄. Inorganic Chemistry, 2010, 49, 5285-5292.	4.0	16
93	Theoretical study of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mi>B</mml:mi><mml:mrow><mml:mn>12</mml:mn></mml:mrow></mml:msub> International Journal of Hydrogen Energy, 2015, 40, 12721-12726.	7.1	16
94	Isotope Exchange Reactions in Ca(BH₄)₂. Journal of Physical Chemistry C, 2015, 119, 29-32.	3.1	16
95	The influence of ionothermal synthesis using BmimBF₄ as a solvent on nanophosphor BaFBr:Eu²⁺ photoluminescence. Nanoscale, 2018, 10, 19706-19710.	5.6	16
96	Raman spectroscopic study of EtNH3X (X=Cl,Br) and several deuterated analogs. Journal of Chemical Physics, 1984, 80, 111-118.	3.0	15
97	EPR and optical investigation of europium doped Ba2Mg3F10. Journal of Alloys and Compounds, 1998, 274, 164-168.	5.5	15
98	Raman spectroscopy studies on M2RuH6 where M=Ca, Sr and Eu. Journal of Alloys and Compounds, 2002, 330-332, 296-300.	5.5	15
99	Modified eneâ€“yne compounds: a novel functional material with nonlinear optical properties. CrystEngComm, 2011, 13, 7194.	2.6	15
100	Structural and vibrational properties of Ca2FeH6 and Sr2RuH6. Journal of Physics and Chemistry of Solids, 2011, 72, 286-289.	4.0	15
101	Effect of pressure on the free ion and crystal field parameters of Sm2+ in BaFBr and SrFBr hosts. Journal of Luminescence, 2013, 134, 678-685.	3.1	15
102	Improved photoluminescence and afterglow of CaTiO_3:Pr^3+ by ammonia treatment. Optical Materials Express, 2013, 3, 248.	3.0	15
103	Raman spectroscopic study of structural phase transitions in the layer crystals (EtNH3)2MCl4with M=Cd and Mn. Journal of Physics C: Solid State Physics, 1985, 18, 6441-6456.	1.5	14
104	Synthesis and Structure of the Disordered Modification of Pb7F12Cl2. Journal of Solid State Chemistry, 2000, 149, 56-59.	2.9	14
105	The influence of defects formed by Ca excess and thermal post-treatments on the persistent luminescence of CaTiO_3:Pr. Optical Materials Express, 2012, 2, 405.	3.0	14
106	Europium-Doped Ba₇F₁₂Cl₂, a Single Component Near-UV Excited Tunable White Phosphor. Journal of Physical Chemistry C, 2015, 119, 141-147.	3.1	14
107	Controlling singletâ€“triplet splitting in carbazoleâ€“oxadiazole based bipolar phosphorescent host materials. Organic Electronics, 2015, 17, 216-228.	2.6	14
108	Di-hydrogen contact induced lattice instabilities and structural dynamics in complex hydride perovskites. Journal of Physics Condensed Matter, 2015, 27, 265403.	1.8	14

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109	Theoretical Study of Halogenated B₁₂H_nX_(12â€“n)^{2â€“} (X = F, Cl, Br). Journal of Physical Chemistry A, 2019, 123, 1807-1813.	2.5	14
110	Boron Hydrogen Compounds for Hydrogen Storage and as Solid Ionic Conductors. Chimia, 2019, 73, 868.	0.6	14
111	Crystallochemical and optical study of mixed alkaline earth-samarium fluorohalides of the lead fluoride chloride type. Materials Research Bulletin, 1995, 30, 405-412.	5.2	12
112	First-principles study of the pressure dependence of the structural and vibrational properties of the ternary metal hydrideCa2RuH6. Physical Review B, 2007, 76, .	3.2	12
113	Photoluminescence of nanocrystalline SrMgF4 prepared by a solution chemical route. Materials Research Bulletin, 2008, 43, 168-175.	5.2	12
114	Vibrational spectra and structure of borohydrides. Journal of Alloys and Compounds, 2013, 580, S122-S124.	5.5	12
115	Computational study of the vibrational spectroscopy properties of boron-hydrogen compounds: Mg(B3H8)2, CB9H10â^' and CB11H12â^'. International Journal of Hydrogen Energy, 2017, 42, 22496-22501.	7.1	12
116	Experimental investigation of Mg(B₃H₈)₂ dimensionality, materials for energy storage applications. Dalton Transactions, 2020, 49, 12168-12173.	3.3	12
117	Synthesis and Structure of Ba6Mg7F26. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1997, 623, 573-578.	1.2	11
118	Study of the Solidâ€"Liquid Equilibrium in Mixed Alkaline Earth Fluorohalides. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 1999, 57, 193-202.	1.4	11
119	Synthesis and Structure of the Ordered Modification of Ba6EuF12Cl2. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2000, 626, 1721-1722.	1.2	11
120	Synthesis and Structure of the new Fluoride Bromide Ba6.668(2)Ca0.332(2)F12Br2 and Solid Solutions with Composition Ba7â^'xCaxF12(ClyBr1â^'y)2 with x =â^¼0.5, 0 < y < 1. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2004, 630, 1484-1488.	1.2	11
121	Magnetic properties of the tetragonal RCuGa3 (R=Pr, Nd and Gd) single crystals. Journal of Magnetism and Magnetic Materials, 2015, 386, 37-43.	2.3	11
122	Reorientational Hydrogen Dynamics in Complex Hydrides with Enhanced Li+ Conduction. Journal of Physical Chemistry C, 2017, 121, 17693-17702.	3.1	11
123	Effect of excitation wavelength (blue vs near UV) and dopant concentrations on afterglow and fast decay of persistent phosphor SrAl2O4:Eu2+,Dy3+. Journal of Rare Earths, 2022, 40, 1022-1028.	4.8	11
124	Synthesis and Crystal Structures of a Stable, a Metastable and a High Temperature Modification of Pb₂NaIO₆. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 3184-3189.	1.2	10
125	Temperature and host dependence of the transition interference between fâ€“f and fâ€“d transitions of Sm2+ in matlockites. Journal of Luminescence, 2015, 161, 323-329.	3.1	10
126	Quantitative Spectraâ€“Structure Relations for Borohydrides. Journal of Physical Chemistry C, 2015, 119, 21868-21874.	3.1	10

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127	Synthesis and Structure of Mixed Ba12F19Cl?Br5-? Crystals. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1996, 622, 1374-1380.	1.2	9
128	Synthesis and Characterization of NaBD₃H, A Potential Structural Probe for Hydrogen Storage Materials. Journal of Physical Chemistry A, 2009, 113, 13932-13936.	2.5	9
129	Raman Spectroscopy Measurements of the Pressureâ^'Temperature Behavior of LiAlH₄. Journal of Physical Chemistry C, 2010, 114, 11991-11997.	3.1	9
130	Accurate Computational Thermodynamics Using Anharmonic Density Functional Theory Calculations: The Case Study of Bâ€“H Species. ACS Omega, 2019, 4, 8786-8794.	3.5	9
131	Probing the local symmetry of Tb3+ in borohydrides using luminescence spectroscopy. Journal of Luminescence, 2020, 221, 117065.	3.1	9
132	Fundamental Loadingâ€Curve Characteristics of the Persistent Phosphor SrAl₂O₄:Eu²⁺,Dy³⁺,B³⁺: The Effect of Temperature and Excitation Density. Advanced Photonics Research, 2022, 3, .	3.6	9
133	Roman investigation on structural phase transitions in (C2H5NH3)2CdCl4. Chemical Physics Letters, 1982, 93, 582-585.	2.6	8
134	Raman investigation of 1,4-cyclohexadiene in the liquid and solid state. Spectrochimica Acta Part A: Molecular Spectroscopy, 1985, 41, 751-756.	0.1	8
135	Raman study of conformational disorder in n-PrNH3X (X î—» Cl, Br, I). Journal of Molecular Structure, 1985, 127, 241-245.	3.6	8
136	Low-temperature raman spectra of bis(ethylammonium)tetrachlorocadmate (EACdC) and two isotopic analogs. Chemical Physics Letters, 1982, 87, 45-49.	2.6	7
137	YMn2Hx and RMn2â^'yFeyH6 (R = Y, Er) studied by Raman, infrared and inelastic neutron scattering spectroscopies. Faraday Discussions, 2011, 151, 307.	3.2	7
138	Observation of multiple sites for trivalent europium ions in SrAl2O4. Journal of Luminescence, 2021, 239, 118348.	3.1	7
139	Thermal and Electrochemical Interface Compatibility of a Hydroborate Solid Electrolyte with 3 V-Class Cathodes for All-Solid-State Sodium Batteries. ACS Applied Materials & Interfaces, 2021, 13, 55319-55328.	8.0	7
140	Luminescence spectroscopy of CaAl12O19:Eu3+ and SrAl12O19:Eu3+ nanoparticles. Journal of Luminescence, 2022, 246, 118805.	3.1	7
141	Low Temperature Crystal Growth and Structure of Ordered Ba7F12Cl2. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 1999, 54, 515-518.	0.7	6
142	Magnesiumâ^'Adenosine Diphosphate Binding Sites in Wild-type Creatine Kinase and in Mutants:Â Role of Aromatic Residues Probed by Raman and Infrared Spectroscopiesâ€. Biochemistry, 2000, 39, 9251-9256.	2.5	6
143	Synthesis and crystal structures of Ba6Mg11F34 and the solid solutions Ba6Mg11â^'xM(II)xF34 (M(II) =) Tj ETQq1 1 0.784314 rgBT /O	5.2	6
144	Comparative Infrared,Raman, and Natural-Bond-Orbital Analyses ofKing's Sultam. Helvetica Chimica Acta, 2004, 87, 1748-1766.	1.6	6

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