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	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
2	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
3	Study of the Temperature- and Pressure-Dependent Structural Properties of Alkali Hydrido-closo-borate Compounds. Inorganic Chemistry, 2022, 61, 5224-5233.	4.0	5
4	Luminescence spectroscopy of CaAl12O19:Eu3+ and SrAl12O19:Eu3+ nanoparticles. Journal of Luminescence, 2022, 246, 118805.	3.1	7
5	Exploring Detailed Reaction Pathways for Hydrogen Storage with Borohydrides Using DFT Calculations. Energy & Fuels, 2022, 36, 5513-5527.	5.1	2
6	Probing luminescence of rare earth ions in natural pink fluorites using Raman microscopes. Journal of Raman Spectroscopy, 2022, 53, 1464-1470.	2.5	3
7	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
8	Energy transfer between different Eu2+ ions in the white phosphor Ba7F12Cl2:Eu2+. Journal of Luminescence, 2021, 233, 117866.	3.1	6
9	Structural and dynamic studies of Pr(11BH4)3. International Journal of Hydrogen Energy, 2021, 46, 32126-32134.	7.1	2
10	Observation of multiple sites for trivalent europium ions in SrAl2O4. Journal of Luminescence, 2021, 239, 118348.	3.1	7
11	Fe4(OAc)10[EMIM]2: Novel Iron-Based Acetate EMIM Ionic Compound. ACS Omega, 2021, 6, 31907-31918.	3.5	1
12	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
13	Boron Hydrogen Compounds: Hydrogen Storage and Battery Applications. Molecules, 2021, 26, 7425.	3.8	25
14	Status and prospects of hydroborate electrolytes for all-solid-state batteries. Energy Storage Materials, 2020, 25, 782-794.	18.0	112
15	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
16	Experimental investigation of Mg(B₃H₈)₂ dimensionality, materials for energy storage applications. Dalton Transactions, 2020, 49, 12168-12173.	3.3	12
17	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
18	Synthesis, Characterization, and Crystal Structures of Two New Manganese Aceto EMIM Ionic Compounds with Chains of Mn²⁺ Ions Coordinated Exclusively by Acetate. ACS Omega, 2020, 5, 15592-15600.	3.5	3

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19	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
20	Probing the local symmetry of Tb3+ in borohydrides using luminescence spectroscopy. Journal of Luminescence, 2020, 221, 117065.	3.1	9
21	Modified Density Functional Dispersion Correction for Inorganic Layered MFX Compounds (M = Ca, Sr,) Tj ETQq1 1 0.784314 rgBT /O	2.5	5
22	Room-Temperature Cycling of 4 V Hydroborate-Based All-Solid-State Sodium Battery Stabilized By a Self-Forming Cathode/Solid Electrolyte Interphase. ECS Meeting Abstracts, 2020, MA2020-02, 1022-1022.	0.0	0
23	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
24	Direct Solutionâ€Based Synthesis of Na₄(B₁₂H₁₂)(B₁₀H₁₀) Solid Electrolyte. ChemSusChem, 2019, 12, 4832-4837.	6.8	26
25	Estimation of Thermodynamic Properties of Metal Hydroborates. ChemistrySelect, 2019, 4, 8989-8992.	1.5	4
26	Electrochemical Oxidative Stability of Hydroborate-Based Solid-State Electrolytes. ACS Applied Energy Materials, 2019, 2, 6924-6930.	5.1	68
27	Identification and optical features of the Pb4Ln2O7 series (Ln = La, Gd, Sm, Nd); genuine 2D-van der Waals oxides. Chemical Communications, 2019, 55, 2944-2947.	4.1	1
28	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
29	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
30	New Insights into the Influence of the 4f⁵5d¹ State in the 4f⁶ Electronic Configuration of Sm²⁺ in Crystal Hosts. Journal of Physical Chemistry A, 2019, 123, 2881-2887.	2.5	3
31	Spectroscopic Study of a Single Crystal of SrAl₂O₄:Eu²⁺:Dy³⁺. Journal of Physical Chemistry C, 2019, 123, 8607-8613.	3.1	57
32	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
33	Spectroscopic properties of Dy3+- and Dy3+, B3+- doped SrAl2O4. Optical Materials, 2019, 89, 268-275.	3.6	18
34	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
35	Boron Hydrogen Compounds for Hydrogen Storage and as Solid Ionic Conductors. Chimia, 2019, 73, 868.	0.6	14
36	Â«ElÃ©mentaire !Â» â€“ The 2019 Science Contest for Schools in Geneva to Celebrate the International Year of the Periodic Table. Chimia, 2019, 73, 656-658.	0.6	0

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37	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
38	Photocatalytic CO2 reduction by Cr-substituted Ba2(In2-Cr)O5Â·(H2O) (0.04 â‰¤ x â‰¤ 0.60). Solid State Sciences, 2018, 78, 22-29.	3.2	5
39	Correlating Boronâ€“Hydrogen Stretching Frequencies with Boronâ€“Hydrogen Bond Lengths in Closoboranes: An Approach Using <scp>DFT</scp> Calculations. Helvetica Chimica Acta, 2018, 101, e1700239.	1.6	6
40	The influence of ionothermal synthesis using BmimBF₄ as a solvent on nanophosphor BaFBr:Eu²⁺ photoluminescence. Nanoscale, 2018, 10, 19706-19710.	5.6	16
41	Dynamics of the Coordination Complexes in a Solid-State Mg Electrolyte. Journal of Physical Chemistry Letters, 2018, 9, 6450-6455.	4.6	36
42	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
43	A highly stable sodium solid-state electrolyte based on a dodeca/deca-borate equimolar mixture. Chemical Communications, 2017, 53, 4195-4198.	4.1	137
44	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
45	Original oxo-centered bismuth oxo-arsenates; critical effect of PO₄for AsO₄substitution. CrystEngComm, 2017, 19, 936-945.	2.6	6
46	Fluoride substitution in LiBH₄; destabilization and decomposition. Physical Chemistry Chemical Physics, 2017, 19, 30157-30165.	2.8	30
47	Cr-substitution in Ba2In2O5Â·(H2O) (xÂ=Â0.16, 0.74). Solid State Sciences, 2017, 73, 1-6.	3.2	5
48	Reorientational Hydrogen Dynamics in Complex Hydrides with Enhanced Li+ Conduction. Journal of Physical Chemistry C, 2017, 121, 17693-17702.	3.1	11
49	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
50	A theoretical study of the spectroscopic properties of B2H6 and of a series 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:mi> 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>. International Journal of Hydrogen En	7.1	31
51	Thermal and concentration dependent energy transfer of Eu^2+ in SrAl_2O_4. Optical Materials Express, 2016, 6, 793.	3.0	37
52	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
53	Halide Free M(BH₄)₂ (M = Sr, Ba, and Eu) Synthesis, Structure, and Decomposition. Inorganic Chemistry, 2016, 55, 7090-7097.	4.0	26
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	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
56	Europium-Doped Ba₇F₁₂Cl₂, a Single Component Near-UV Excited Tunable White Phosphor. Journal of Physical Chemistry C, 2015, 119, 141-147.	3.1	14
57	Controlling singletâ€“triplet splitting in carbazoleâ€“oxadiazole based bipolar phosphorescent host materials. Organic Electronics, 2015, 17, 216-228.	2.6	14
58	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
59	Quantitative Spectraâ€“Structure Relations for Borohydrides. Journal of Physical Chemistry C, 2015, 119, 21868-21874.	3.1	10
60	Synthesis of a Bimetallic Dodecaborate LiNaB₁₂H₁₂ with Outstanding Superionic Conductivity. Chemistry of Materials, 2015, 27, 5483-5486.	6.7	97
61	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
62	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><m International Journal of Hydrogen Energy, 2015, 40, 12721-12726.	7.1	16
63	Di-hydrogen contact induced lattice instabilities and structural dynamics in complex hydride perovskites. Journal of Physics Condensed Matter, 2015, 27, 265403.	1.8	14
64	Isotope Exchange Reactions in Ca(BH₄)₂. Journal of Physical Chemistry C, 2015, 119, 29-32.	3.1	16
65	Ab initio Structure Determination of Barium Periodate, Ba₅I₂O₁₂, from Powder XRD Data. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 3074-3077.	1.2	4
66	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
67	Crystal-clear â€“ The '2014 Most Superlative Crystal Growth Contest' for School Classes. Chimia, 2014, 68, 893.	0.6	1
68	Improved persistent luminescence of CaTiO3:Pr by fluorine substitution and thermochemical treatment. Journal of Alloys and Compounds, 2014, 613, 338-343.	5.5	22
69	Structure and properties of complex hydride perovskite materials. Nature Communications, 2014, 5, 5706.	12.8	168
70	FT-IR spectra of inorganic borohydrides. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 128, 902-906.	3.9	83
71	Vapor pressure measurements of Mg(BH4)2 using Knudsen torsion effusion thermo graphic method. International Journal of Hydrogen Energy, 2014, 39, 2175-2186.	7.1	5
72	Anisotropic magnetic, transport and thermodynamic properties of novel tetragonal Ce2RhGa12 compound. Journal of Alloys and Compounds, 2014, 604, 379-383.	5.5	6

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73	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
74	CO 2 -promoted hydrolysis of KBH 4 for efficient hydrogen co-generation. International Journal of Hydrogen Energy, 2014, 39, 19603-19608.	7.1	17
75	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
76	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
77	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
78	Vibrational spectra and structure of borohydrides. Journal of Alloys and Compounds, 2013, 580, S122-S124.	5.5	12
79	Hydrogenâ€“fluorine exchange in NaBH4â€“NaBF4. Physical Chemistry Chemical Physics, 2013, 15, 18185.	2.8	52
80	Study of surfactant alcohols with various chemical moieties at the hydrophilicâ€“hydrophobic interface. RSC Advances, 2013, 3, 7237.	3.6	3
81	The Periodateâ€Based Double Perovskites M₂NaIO₆ (M = Ca, Sr, and) Tj ETQq1 1 0.784314 rgB	1.2	23
82	Improved photoluminescence and afterglow of CaTiO_3:Pr^3+ by ammonia treatment. Optical Materials Express, 2013, 3, 248.	3.0	15
83	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
84	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
85	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
86	Crystal Chemistry in the Barium Fluoride Chloride System. Crystal Growth and Design, 2012, 12, 1124-1131.	3.0	22
87	A mixed-cation mixed-anion borohydride NaY(BH4)2Cl2. International Journal of Hydrogen Energy, 2012, 37, 8428-8438.	7.1	33
88	Modified eneâ€“yne compounds: a novel functional material with nonlinear optical properties. CrystEngComm, 2011, 13, 7194.	2.6	15
89	YMn2Hx and RMn2â^'yFeyH6 (R = Y, Er) studied by Raman, infrared and inelastic neutron scattering spectroscopies. Faraday Discussions, 2011, 151, 307.	3.2	7
90	New fundamental experimental studies on Î±-Mg(BH4)2 and other borohydrides. Journal of Alloys and Compounds, 2011, 509, S688-S690.	5.5	29

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91	Novel sodium aluminium borohydride containing the complex anion [Al(BH4,Cl)4]â^'. Faraday Discussions, 2011, 151, 231.	3.2	24
92	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
93	Structural and vibrational properties of Ca2FeH6 and Sr2RuH6. Journal of Physics and Chemistry of Solids, 2011, 72, 286-289.	4.0	15
94	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
95	Ba_{2.2}Ca_{0.8}Mg₄F₁₄, a new â€œsolid solution stabilizedâ€• matrix for an intense blue phosphor. Crystal Research and Technology, 2011, 46, 899-905.	1.3	2
96	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
97	Experimental evidence of librational vibrations determining the stability of calcium borohydride. Physical Review B, 2011, 83, .	3.2	24
98	Crystal growth and structure determination of the novel tetragonal compound Ce2RhGa12. Chemistry of Metals and Alloys, 2011, 4, 229-233.	0.1	2
99	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
100	Al₃Li₄(BH₄)₁₃: A Complex Doubleâ€Cation Borohydride with a New Structure. Chemistry - A European Journal, 2010, 16, 8707-8712.	3.3	66
101	Polarized Raman and Hyperpolarizability studies of Hydroxyethylammonium (L) tartrate monohydrate for quadratic nonlinear optics. , 2010, , .		0
102	Vibrational Studies of the Nonlinear Optical Crystalâ€"2, 4-dinitrophenol. , 2010, , .		0
103	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
104	Nuclear Magnetic Resonance Study of Reorientational Motion in Î±-Mg(BH₄)₂. Journal of Physical Chemistry C, 2010, 114, 12370-12374.	3.1	49
105	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>1-x</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Ce_xF_{2+x}: Physical- and chemical-pressure effects. Physical Review B, 2010, 82, .	3.2	17
106	Deuteriumâ^'Hydrogen Exchange in Solid Mg(BH₄)₂. Journal of Physical Chemistry C, 2010, 114, 10045-10047.	3.1	22
107	Structure and Characterization of KSc(BH₄)₄. Journal of Physical Chemistry C, 2010, 114, 19540-19549.	3.1	95
108	Effect of additives on the synthesis and reversibility of Ca(BH4)2. Journal of Alloys and Compounds, 2010, 493, 281-287.	5.5	41

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109	Synthetic approaches to inorganic borohydrides. Dalton Transactions, 2010, 39, 6006.	3.3	81
110	NaSc(BH₄)₄: A Novel Scandium-Based Borohydride. Journal of Physical Chemistry C, 2010, 114, 1357-1364.	3.1	137
111	AZn2(BH4)5(A = Li, Na) and NaZn(BH4)3: Structural Studies. Journal of Physical Chemistry C, 2010, 114, 19127-19133.	3.1	53
112	Raman Spectroscopy Measurements of the Pressureâ^'Temperature Behavior of LiAlH₄. Journal of Physical Chemistry C, 2010, 114, 11991-11997.	3.1	9
113	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
114	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
115	Revisited conformational analysis of perhydroâ€3a,6a,9aâ€triazaphenalene based on Raman analysis. Journal of Physical Organic Chemistry, 2009, 22, 282-288.	1.9	4
116	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
117	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
118	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
119	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
120	The Chemical Society of Geneva, a Vital Link Between the Academy and the City. Chimia, 2009, 63, 843.	0.6	0
121	Physical Chemistry at the University of Geneva. Chimia, 2009, 63, 807.	0.6	0
122	Crystallochemical Studies in the Family of Crystals Ba7â^'xNayF12Cl2â^'zBrz (x < 0.1, y < 0.2, z < 1.5). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2008, 634, 1041-1044.	1.2	4
123	Structure and Properties of NaBH₄Â·2H₂O and NaBH₄. European Journal of Inorganic Chemistry, 2008, 2008, 3127-3133.	2.0	115
124	Photoluminescence of nanocrystalline SrMgF4 prepared by a solution chemical route. Materials Research Bulletin, 2008, 43, 168-175.	5.2	12
125	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
126	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

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127	Vibrational Spectra of Ca(BH4)2. Journal of Physical Chemistry C, 2008, 112, 11575-11579.	3.1	53
128	Solvent and Spectral Effects in the Ultrafast Charge Recombination Dynamics of Excited Donorâ^'Acceptor Complexes. Journal of Physical Chemistry A, 2008, 112, 594-601.	2.5	54
129	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:math> by inelastic scattering of synchrotron radiation. Physical Review B, 2008, 78, .	3.2	26
130	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
131	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
132	Mixed PbFBr1â^'xIxcrystals: structural and spectroscopic investigations. Journal of Physics Condensed Matter, 2007, 19, 036214.	1.8	5
133	Magnesium Borohydride: Synthesis and Crystal Structure. Angewandte Chemie - International Edition, 2007, 46, 5765-5767.	13.8	182
134	Calcium-free Solid Solutions in the System Ba7F12Cl2â^'xBrx (xÂ<Â1.5), a Single-component White Phosphor Host. Journal of Chemical Crystallography, 2007, 37, 469-472.	1.1	3
135	Infrared and polarized Raman spectra of dixanthinium tetrachlorozincate single crystal. Journal of Physics and Chemistry of Solids, 2007, 68, 256-263.	4.0	6
136	Nanostructured thin-film tungsten trioxide photoanodes for solar water and sea-water splitting. , 2006, , .		30
137	Fermi Resonances of Borohydrides in a Crystalline Environment of Alkali Metals. Journal of Physical Chemistry A, 2006, 110, 9927-9933.	2.5	35
138	On the crystallochemical origin of the disordered form of Ba7(EuII)F12Cl2 and the structural changes induced at high temperature. Crystal Research and Technology, 2006, 41, 1005-1012.	1.3	6
139	Ordering of the heavy anions in mixedBaFBr0.5I0.5crystals: Experimental results. Physical Review B, 2005, 72, .	3.2	5
140	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
141	Synthesis and crystal structures of Ba6Mg11F34 and the solid solutions Ba6Mg11â^'xM(II)xF34 (M(II) =) Tj ETQq1 1 0.784314 rgBT /Ov	5.2	6
142	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
143	Comparative Infrared,Raman, and Natural-Bond-Orbital Analyses ofKing's Sultam. Helvetica Chimica Acta, 2004, 87, 1748-1766.	1.6	6
144	Structural and Spectroscopic Studies on the Alkali Borohydrides MBH4 (M: Na, K, Rb, Cs).. ChemInform, 2004, 35, no.	0.0	0

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145	Synthesis and Structure of the New Fluoride Bromide Ba6.668(2)Ca0.332(2)F12Br2 and Solid Solutions with Composition Ba7-xCaxF12 (ClyBr1-y)2 with x = â‰ˆ0.5, 0 < y < 1.. ChemInform, 2004, 35, no.	0.0	0
146	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
147	transitions of Sm2+ in SrMgF4:Sm2+. Journal of Alloys and Compounds, 2004, 374, 194-196.	5.5	16
148	Raman studies of reorientation motions of [BH4]â¯ anionsin alkali borohydrides. Journal of Alloys and Compounds, 2004, 363, 129-132.	5.5	92
149	Lithium Boro-hydride LiBH4. Part 2. Raman Spectroscopy.. ChemInform, 2003, 34, no.	0.0	0
150	Raman spectroscopy studies on M2RuH6 where M=Ca, Sr and Eu. Journal of Alloys and Compounds, 2002, 330-332, 296-300.	5.5	15
151	Lithium boro-hydride LiBH4. Journal of Alloys and Compounds, 2002, 346, 206-210.	5.5	108
152	Synthesis and Structure of the Disordered Modification of Pb7F12Cl2. Journal of Solid State Chemistry, 2000, 149, 56-59.	2.9	14
153	Synthesis and Structure of the Ordered Modification of Ba6EuF12Cl2. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2000, 626, 1721-1722.	1.2	11
154	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
155	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
156	Study of the Solidâ€"Liquid Equilibrium in Mixed Alkaline Earth Fluorohalides. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 1999, 57, 193-202.	1.4	11
157	Synthesis and Structure of Ba7F12Cl2. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1999, 625, 643-649.	1.2	25
158	Europium doped BaMgF4, an EPR and optical investigation. Journal of Alloys and Compounds, 1998, 268, 60-65.	5.5	33
159	EPR and optical investigation of europium doped Ba2Mg3F10. Journal of Alloys and Compounds, 1998, 274, 164-168.	5.5	15
160	Experimental Raman scattering investigation of phonon anharmonicity effects in. Journal of Physics Condensed Matter, 1998, 10, 2155-2169.	1.8	46
161	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
162	Synthesis and Structure of Ba6Mg7F26. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1997, 623, 573-578.	1.2	11

#	Article	IF	Citations
163	Mixed Ba5.24Sr0.76Mg7F26. Acta Crystallographica Section C: Crystal Structure Communications, 1997, 53, 1735-1738.	0.4	2
164	Conformational studies of 2-butanol using temperature-dependent Raman measurements and MM3 calculations. Journal of Molecular Structure, 1997, 410-411, 357-360.	3.6	5
165	Synthesis and Structure of Ba12F19Cl5. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1996, 622, 343-347.	1.2	25
166	Synthesis and Structure of Mixed Ba12F19Cl?Br5-? Crystals. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1996, 622, 1374-1380.	1.2	9
167	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
168	Inhomogeneous broadening of optical spectra in mixed crystals: Basic model and its application to Sm2+in SrFClxBr1âˆ'x. Journal of Chemical Physics, 1994, 101, 10323-10337.	3.0	25
169	Crystallochemical study of mixed strontium-barium fluorohalides. Materials Research Bulletin, 1993, 28, 353-362.	5.2	19
170	Raman study of the incommensurate layer crystal (CH3CH2CH2NH3)2MnCl4(=PAMnC) from 10 to 300 K. Journal of Physics Condensed Matter, 1991, 3, 5085-5097.	1.8	4
171	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
172	Polarized Raman spectra of beryl and bazzite. Physics and Chemistry of Minerals, 1990, 17, 395.	0.8	36
173	Raman spectra of single crystal CuO. Solid State Communications, 1990, 73, 447-451.	1.9	133
174	Unusual behavior of the Gd ESR in single crystals of GdyY1âˆ'yBa2Cu3O6+x with x=0.1âˆ'0.8 and y=0.03âˆ'0.06: Evidence for magnetic interaction in the superconductors. Physica C: Superconductivity and Its Applications, 1989, 161, 13-20.	1.2	31
175	Observation of ESR in the Bi high-Tc superconductors. Physica C: Superconductivity and Its Applications, 1989, 157, 240-246.	1.2	18
176	Single crystal ESR studies on tetragonal YBa2Cu3O6+x. Physica C: Superconductivity and Its Applications, 1989, 158, 424-432.	1.2	27
177	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
178	The conformational equilibrium of CH3CH2CH2NH3+: Raman study in solution and ab initio calculations. Journal of Molecular Structure, 1989, 196, 69-78.	3.6	2
179	A Vibrational Study of Some 1,2,4-Trioxanes. Helvetica Chimica Acta, 1988, 71, 992-999.	1.6	19
180	Structure and crystallization of n-C21H44, n-C36H74, and low-molecular-weight polyethylene glasses. Macromolecules, 1987, 20, 2810-2819.	4.8	87

#	Article	IF	Citations
181	A simple, low cost furnace for high temperature Raman measurements. Journal of Physics E: Scientific Instruments, 1986, 19, 199-200.	0.7	3
182	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
183	Raman study of conformational disorder in n-PrNH3X (X î—» Cl, Br, I). Journal of Molecular Structure, 1985, 127, 241-245.	3.6	8
184	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
185	Raman spectroscopic study of EtNH3X (X=Cl,Br) and several deuterated analogs. Journal of Chemical Physics, 1984, 80, 111-118.	3.0	15
186	Vibrational characterization of the compound (C2H5NH3)2PdCl4(EAPdC). Chemical Physics Letters, 1982, 90, 282-286.	2.6	4
187	Low-temperature raman spectra of bis(ethylammonium)tetrachlorocadmate (EACdC) and two isotopic analogs. Chemical Physics Letters, 1982, 87, 45-49.	2.6	7
188	Roman investigation on structural phase transitions in (C2H5NH3)2CdCl4. Chemical Physics Letters, 1982, 93, 582-585.	2.6	8