

Rolf W Berg

List of Publications by Year in descending order

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161
papers

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136940

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179
all docs

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docs citations

179
times ranked

3909
citing authors

#	ARTICLE	IF	CITATIONS
1	Water uptake and acid doping of polybenzimidazoles as electrolyte membranes for fuel cells. <i>Solid State Ionics</i> , 2004, 168, 177-185.	2.7	321
2	Raman and ab Initio Studies of Simple and Binary 1-Alkyl-3-methylimidazolium Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19018-19025.	2.6	213
3	Tuning ionic liquids for high gas solubility and reversible gas sorption. <i>Journal of Molecular Catalysis A</i> , 2008, 279, 170-176.	4.8	177
4	Catalytic Performance of Zeolite-Supported Vanadia in the Aerobic Oxidation of 5-Hydroxymethylfurfural to 2,5-Diformylfuran. <i>ChemCatChem</i> , 2013, 5, 284-293.	3.7	138
5	Characterization of Temperature-Induced Phase Transitions in Five Polymorphic Forms of Sulfathiazole by Terahertz Pulsed Spectroscopy and Differential Scanning Calorimetry. <i>Journal of Pharmaceutical Sciences</i> , 2006, 95, 2486-2498.	3.3	126
6	Raman Spectroscopy and Ab-Initio Model Calculations on Ionic Liquids. <i>Monatshefte für Chemie</i> , 2007, 138, 1045-1075.	1.8	117
7	Molten Triazolium Chloride Systems as New Aluminum Battery Electrolytes. <i>Journal of the Electrochemical Society</i> , 1993, 140, 3108-3113.	2.9	81
8	Structural characterization of cubic silicon nitride. <i>Europhysics Letters</i> , 2000, 51, 62-67.	2.0	74
9	The vibrational spectrum of the normal and perdeuterated tetramethylammonium ion. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1978, 34, 655-659.	0.1	55
10	Morphological Changes at the Interface of the Nickel-Yttria Stabilized Zirconia Point Electrode. <i>Journal of the Electrochemical Society</i> , 1998, 145, 2244-2252.	2.9	54
11	Vibrational spectroscopy on protons and deuterons in proton conducting perovskites. <i>Solid State Ionics</i> , 2002, 148, 83-92.	2.7	48
12	Infrared and far infrared spectra of dihalo(ethylenediamine) palladium(II) and platinum(II). <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1973, 29, 319-327.	0.1	46
13	High-Pressure Measuring Cell for Raman Spectroscopic Studies of Natural Gas. <i>Applied Spectroscopy</i> , 2001, 55, 55-60.	2.2	46
14	Crystal structure and infrared and Raman spectra of potassium vanadium sulfate (KV(SO ₄) ₂). <i>Inorganic Chemistry</i> , 1986, 25, 1571-1577.	4.0	45
15	Raman Spectroscopic Studies of Methane-Ethane Mixtures as a Function of Pressure. <i>Applied Spectroscopy</i> , 2001, 55, 745-749.	2.2	45
16	Low temperature vibrational spectroscopy. II. Evidence for order-disorder phase transitions due to weak C-H...Cl hydrogen bonding in tetramethylammonium hexachloroplatinate (IV), tellurate (IV), and stannate (IV) and the related perdeuterated compounds. <i>Journal of Chemical Physics</i> , 1978, 69, 1325-1335.	1.0	44
17	The NaNO ₃ /KNO ₃ system: the position of the solidus and sub-solidus. <i>Dalton Transactions</i> , 2004, , 2224.	3.3	43
18	Donor-acceptor-pair emission characterization in N-B doped fluorescent SiC. <i>Optical Materials Express</i> , 2011, 1, 1439.	3.0	43

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19	Low temperature vibrational spectroscopy. I. Hexachlorotellurates. Journal of Chemical Physics, 1977, 67, 1829.	3.0	42
20	Phase diagram of the sodium chloride-aluminum chloride system near equimolar composition, with determination of the cryoscopic constant, the enthalpy of melting, and oxide contaminations. Inorganic Chemistry, 1984, 23, 557-565.	4.0	41
21	Quantitative monitoring of yeast fermentation using Raman spectroscopy. Analytical and Bioanalytical Chemistry, 2014, 406, 4911-4919.	3.7	41
22	The influence of SiO ₂ addition to 2MgO·Al ₂ O ₃ ·3.3P ₂ O ₅ glass. Journal of Non-Crystalline Solids, 1999, 244, 16-24.	3.1	40
23	The crystal structure determinations and refinements of K ₂ S ₂ O ₇ , KNaS ₂ O ₇ and Na ₂ S ₂ O ₇ from X-ray powder and single crystal diffraction data. Journal of Solid State Chemistry, 2005, 178, 1697-1704.	2.9	40
24	Structural properties and vibrational spectra of the ethylene-diammonium family of perovskite layer-type crystals: [NH ₃ CH ₂ CH ₂ NH ₃] [MCl ₄], M = Ni, Pd, Cu, Cd, Mn. Journal of Solid State Chemistry, 1978, 26, 59-67.	2.9	39
25	Single molecule Raman detection of enkephalin on silver colloidal particles. Spectroscopy, 2004, 18, 433-440.	0.8	38
26	Thermomorphic phase separation in ionic liquid-organic liquid systems-conductivity and spectroscopic characterization. Physical Chemistry Chemical Physics, 2005, 7, 3052.	2.8	37
27	The Reaction between ZnO and Molten Na ₂ S ₂ O ₇ or K ₂ S ₂ O ₇ Forming Na ₂ Zn(SO ₄) ₂ or K ₂ Zn(SO ₄) ₂ , Studied by Raman Spectroscopy and X-ray Diffraction. Inorganic Chemistry, 2005, 44, 3485-3493.	4.0	36
28	Investigation of (+)-Ascorbic acid with Raman spectroscopy in visible and UV light. Applied Spectroscopy Reviews, 2015, 50, 193-239.	6.7	36
29	Negative oxidation states of the chalcogens in molten salts. 1. Raman spectroscopic studies on aluminum chlorosulfides formed in chloride and chloroaluminate melts and some related solid and dissolved compounds. Inorganic Chemistry, 1980, 19, 2688-2698.	4.0	35
30	How to determine the pressure of a methane-containing gas mixture by means of two weak Raman bands, ν_3 and ν_2 . Journal of Raman Spectroscopy, 2002, 33, 160-164.	2.5	34
31	Raman Spectroscopic Study of the Vapor Phase of 1-Methylimidazolium Ethanoate, a Protic Ionic Liquid. Journal of Physical Chemistry A, 2010, 114, 10834-10841.	2.5	34
32	Crystal structure and infrared and Raman spectra of potassium vanadyl sulfate (K ₄ (VO) ₃ (SO ₄) ₅). Inorganic Chemistry, 1989, 28, 1847-1853.	4.0	33
33	Low temperature vibrational spectroscopy. III. Structural aspects and detection of phase transitions in crystalline alkali metal and tetramethylammonium hexabromotellurates and platيناتes. Journal of Chemical Physics, 1979, 71, 2531-2540.	3.0	32
34	Progress in Niobium and Tantalum coordination chemistry. Coordination Chemistry Reviews, 1992, 113, 1-130.	18.8	32
35	NdHO, a novel oxyhydride. Journal of Solid State Chemistry, 2011, 184, 1890-1894.	2.9	32
36	Analysis of Phthalate Ester Content in Poly(Vinyl Chloride) Plastics by Means of Fourier Transform Raman Spectroscopy. Applied Spectroscopy, 2004, 58, 410-413.	2.2	31

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37	NaNO ₂ + NaNO ₃ Phase Diagram: New Data from DSC and Raman Spectroscopy. Journal of Chemical & Engineering Data, 2006, 51, 34-39.	1.9	31
38	Formation of an Ion-Pair Molecule with a Single NH ⁺ ⋅⋅⋅Cl ⁻ Hydrogen Bond: Raman Spectra of 1,1,3,3-Tetramethylguanidinium Chloride in the Solid State, in Solution, and in the Vapor Phase. Journal of Physical Chemistry A, 2008, 112, 8585-8592.	2.5	31
39	Crystal Structure, Vibrational Spectroscopy and ab Initio Density Functional Theory Calculations on the Ionic Liquid forming 1,1,3,3-Tetramethylguanidinium bis{(trifluoromethyl)sulfonyl}amide. Journal of Physical Chemistry B, 2009, 113, 8878-8886.	2.6	31
40	Revisiting the Brønsted acid catalysed hydrolysis kinetics of polymeric carbohydrates in ionic liquids by in situ ATR-FTIR spectroscopy. Green Chemistry, 2013, 15, 2843.	9.0	31
41	A Novel Inorganic Low Melting Electrolyte for Secondary Aluminum-Nickel Sulfide Batteries. Journal of the Electrochemical Society, 1989, 136, 901-906.	2.9	30
42	Electrochemical Deposition of Aluminum from NaCl-AlCl ₃ Melts. Journal of the Electrochemical Society, 1990, 137, 593-598.	2.9	30
43	Crystal structure and spectroscopic characterization of cesium vanadium sulfate CsV(SO ₄) ₂ . Evidence for an electronic Raman transition. Inorganic Chemistry, 1993, 32, 4714-4720.	4.0	30
44	Reaction Kinetics of Acetone Peroxide Formation and Structure Investigations Using Raman Spectroscopy and X-Ray Diffraction. Applied Spectroscopy, 2009, 63, 92-97.	2.2	29
45	Analysis of adipate ester contents in poly(vinyl chloride) plastics by means of FT-Raman spectroscopy. Vibrational Spectroscopy, 2006, 42, 222-225.	2.2	28
46	Matrix-Isolated Al ₂ O ₃ -Ion in Molten and Solid LiF/NaF/KF. Inorganic Chemistry, 2000, 39, 4725-4730.	4.0	27
47	Wavenumber Calibration of CCD Detector Raman Spectrometers Controlled by a Sinus Arm Drive. Applied Spectroscopy Reviews, 2006, 41, 165-183.	6.7	27
48	Vibrational spectra of bis(ethylenediamine) palladium(II)- and platinum(II) halides and their deuterium isotopomers. Spectrochimica Acta Part A: Molecular Spectroscopy, 1972, 28, 2319-2330.	0.1	26
49	Electrochemical Deposition and Dissolution of Aluminum in NaAlCl ₄ Melts: Influence of and Sulfide Addition. Journal of the Electrochemical Society, 1990, 137, 2794-2798.	2.9	26
50	Influence of Substrates on the Electrochemical Deposition and Dissolution of Aluminum in NaAlCl ₄ Melts. Journal of the Electrochemical Society, 1991, 138, 763-766.	2.9	26
51	The Crystal Structure of K ₇ Nb(SO ₄) ₆ and K ₇ Ta(SO ₄) ₆ .. Acta Chemica Scandinavica, 1990, 44, 328-331.	0.7	26
52	Limiting Current of Oxygen Reduction on Gas-Diffusion Electrodes for Phosphoric Acid Fuel Cells. Journal of the Electrochemical Society, 1994, 141, 3114-3119.	2.9	24
53	Raman spectroscopy evidence of 1:1:1 complex formation during dissolution of WO ₃ in a melt of K ₂ S ₂ O ₇ :K ₂ SO ₄ . Vibrational Spectroscopy, 2006, 42, 346-352.	2.2	24
54	Ab Initio Calculations and Raman and SERS Spectral Analyses of Amphetamine Species. Applied Spectroscopy Reviews, 2011, 46, 107-131.	6.7	24

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55	Experimental and <i>ab initio</i> DFT calculated Raman spectrum of Sudan I, a red dye. Journal of Raman Spectroscopy, 2011, 42, 1470-1478.	2.5	24
56	Crystal Structure and Spectroscopic Characterization of a Green V(IV) Compound, Na ₈ (VO) ₂ (SO ₄) ₆ .. Acta Chemica Scandinavica, 1999, 53, 15-23.	0.7	24
57	Raman Study of the Hexafluoroaluminate Ion in Solid and Molten FLINAK. Inorganic Chemistry, 2000, 39, 3682-3689.	4.0	23
58	The Crystal Structure of NaV(SO ₄) ₂ .. Acta Chemica Scandinavica, 1991, 45, 961-964.	0.7	23
59	Low temperature vibrational spectra, lattice dynamics, and phase transitions in some potassium hexahalometallates: K ₂ [XY ₆] with X=Sn or Te and Y=Cl or Br. Journal of Chemical Physics, 1979, 70, 4864-4871.	3.0	22
60	Crystal structure and vibrational spectra of disodium oxo(disulfato)vanadate. Inorganic Chemistry, 1990, 29, 3294-3298.	4.0	22
61	Electrolyte Additives for Phosphoric Acid Fuel Cells. Journal of the Electrochemical Society, 1993, 140, 896-902.	2.9	21
62	Structural Characterization of 1,1,3,3-Tetramethylguanidinium Chloride Ionic Liquid by Reversible SO ₂ Gas Absorption. Journal of Physical Chemistry A, 2013, 117, 11364-11373.	2.5	21
63	Crystal Structure of Ethylenediammonium Tetrachloropalladate(II).. Acta Chemica Scandinavica, 1976, 30a, 843-844.	0.7	21
64	Vibrational Spectra of Ethylenediamine Salts. I. Tentative Assignments of Infrared and Far Infrared Spectra. Spectroscopy Letters, 1971, 4, 285-293.	1.0	18
65	Niobium aluminum chloride (NbAlCl ₈): a molecular dinuclear complex in the solid, melt, and vapor phases. Synthesis, crystal structure, and Raman spectra. Inorganic Chemistry, 1984, 23, 164-171.	4.0	18
66	Oxygen Reduction on Gas-Diffusion Electrodes for Phosphoric Acid Fuel Cells by a Potential Decay Method. Journal of the Electrochemical Society, 1995, 142, 3250-3256.	2.9	18
67	Vapor pressure and specific electrical conductivity in the solid and molten H ₂ O-CsH ₂ PO ₄ -CsPO ₃ system—a novel electrolyte for water electrolysis at ~225–400 °C. Ionics, 2018, 24, 2761-2782.	2.4	18
68	Redetermination of the Crystal Structure of Al ₂ Br ₆ . A Comparison of Three Methods.. Acta Chemica Scandinavica, 1997, 51, 442-448.	0.7	18
69	Structure of caesium disulfate at 120 and 273 K. Acta Crystallographica Section B: Structural Science, 2009, 65, 551-557.	1.8	17
70	Determining the Spectral Resolution of a Charge-Coupled Device (CCD) Raman Instrument. Applied Spectroscopy, 2012, 66, 1034-1043.	2.2	17
71	Addition compounds of sulfur, selenium, or tellurium tetrachloride with niobium or tantalum pentachloride Conductometric and Raman spectroscopic study in the molten and solid state. Journal of Inorganic and Nuclear Chemistry, 1978, 40, 471-476.	0.5	16
72	Combined Raman Spectroscopic and Theoretical Investigation of Fundamental Vibrational Bands of Furfuryl Alcohol (2-furanmethanol). Journal of Physical Chemistry A, 2006, 110, 9500-9504.	2.5	16

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73	Probing the global potential energy minimum of (CH ₂ O) ₂ : THz absorption spectrum of (CH ₂ O) ₂ in solid neon and <i>para</i> -hydrogen. <i>Journal of Chemical Physics</i> , 2017, 146, 244311.	3.0	16
74	Crystallographic and aluminum-27 NMR study on premelting phenomena in crystals of sodium tetrachloroaluminate. <i>Inorganic Chemistry</i> , 1991, 30, 981-988.	4.0	15
75	The Crystal Structure of Tetramethylammonium Hexabromotellurate(IV).. <i>Acta Chemica Scandinavica</i> , 1979, 33a, 157-160.	0.7	15
76	Infrared and far infrared spectra of bis(ethylenediamine)nickel(II)-tri- and tetra-iodomercurate(II). <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1974, 30, 1881-1887.	0.1	14
77	Vibrational spectroscopy at very high pressures. Part 28. Raman and far-infrared spectra of some complex chlorides A ₂ MCl ₆ under hydrostatic pressure. <i>Journal of Chemical Physics</i> , 1981, 74, 2800-2807.	3.0	14
78	Specific conductivity of sodium chloride-aluminum chloride and sodium chloride-aluminum chloride-aluminum sulfide (NaCl-AlCl ₃ -Al ₂ S ₃) melts. <i>Journal of Chemical & Engineering Data</i> , 1985, 30, 203-208.	1.9	14
79	Use of Vibrational Spectroscopy To Determine Oxide Content of Alkali Metal Fluoride-Tantalum Melts. <i>Analytical Chemistry</i> , 1995, 67, 2129-2135.	6.5	14
80	Raman Spectroscopic Study of Tungsten(VI) Oxosulfato Complexes in WO ₃ ·K ₂ S ₂ O ₇ ·K ₂ SO ₄ Molten Mixtures: Stoichiometry, Vibrational Properties, and Molecular Structure. <i>Journal of Physical Chemistry A</i> , 2011, 115, 4214-4222.	2.5	14
81	Formation and characterization of varied size germanium nanocrystals by electron microscopy, Raman spectroscopy, and photoluminescence. <i>Optical Materials Express</i> , 2011, 1, 643.	3.0	14
82	Molybdenum(VI) Oxosulfato Complexes in MoO ₃ ·K ₂ S ₂ O ₇ ·K ₂ SO ₄ Molten Mixtures: Stoichiometry, Vibrational Properties, and Molecular Structures. <i>Journal of Physical Chemistry A</i> , 2012, 116, 8861-8872.	2.5	14
83	Raman spectroscopic studies of vapor complexation in the MCl ₄ -POCl ₃ and MCl ₄ -AlCl ₃ (M = Zr or Hf) binary systems. <i>Polyhedron</i> , 1986, 5, 1393-1403.	2.2	13
84	Vibrational spectroscopic study on fluoroxyborate formation in fluoride melts: Indications of B ₂ O ₆ and B ₃ O ₆ . <i>Journal of Molecular Liquids</i> , 1999, 83, 141-151.	4.9	13
85	Nonlinearity in Intensity versus Concentration Dependence for the Deep UV Resonance Raman Spectra of Toluene and Heptane. <i>Applied Spectroscopy Reviews</i> , 2013, 48, 425-437.	6.7	13
86	Efficient water splitting electrolysis on a platinum-free tungsten carbide electrocatalyst in molten CsH ₂ PO ₄ at 350-390 °C. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 21262-21272.	7.1	13
87	A Neutron Diffraction Study of the Crystal Structure of Deuterated Ammonium Tetrachloropalladate(II) at Low and Ambient Temperatures.. <i>Acta Chemica Scandinavica</i> , 1977, 31a, 375-378.	0.7	13
88	Crystal Structure of Tetramethylammonium Hexachloroplatinate(IV).. <i>Acta Chemica Scandinavica</i> , 1978, 32a, 241-244.	0.7	13
89	Raman Optical Activity and Raman Spectra of Amphetamine Species: Quantum Chemical Model Calculations and Experiments. <i>American Journal of Analytical Chemistry</i> , 2012, 03, 410-421.	0.9	13
90	Determination of Stoichiometry of Solutes in Molten Salt Solvents by Correlations of Relative Raman Band Intensities. <i>Applied Spectroscopy</i> , 1999, 53, 565-571.	2.2	12

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91	Ab Initio Calculation of Conformation and Vibrational Spectrum for the Pyrosulfate Ion. Journal of Physical Chemistry A, 2003, 107, 5826-5830.	2.5	12
92	Raman Spectroscopic Studies of Methane Gas Hydrates. Applied Spectroscopy Reviews, 2009, 44, 168-179.	6.7	12
93	Raman detection of hydrohalite formation: Avoiding accidents on icy roads by deicing where salt will not work. Applied Spectroscopy Reviews, 2018, 53, 503-515.	6.7	12
94	Raman study of gallium chlorosulphides in chloride melts. Polyhedron, 1983, 2, 179-181.	2.2	11
95	Density of molten sodium tetrachloroaluminate. A reinvestigation. Journal of Chemical & Engineering Data, 1983, 28, 251-253.	1.9	11
96	Cryoscopy in the potassium chloride-aluminum trichloride system. High-precision phase diagram near equimolar composition, with comments on oxide contaminations and effective chloride concentrations in tetrachloroaluminate melts. Inorganic Chemistry, 1985, 24, 4506-4511.	4.0	11
97	Electroless Growth of Aluminum Dendrites in NaCl-AlCl ₃ Melts. Journal of the Electrochemical Society, 1989, 136, 2940-2943.	2.9	11
98	Mechanism of Reaction in NaAlCl ₄ Molten Salt Batteries with Nickel Felt Cathodes and Aluminum Anodes: II. Experimental Results and Comparison with Model Calculations. Journal of the Electrochemical Society, 1993, 140, 3380-3390.	2.9	11
99	Specific electrical conductivity in molten potassium dihydrogen phosphate KH ₂ PO ₄ – An electrolyte for water electrolysis at ~300 °C. Applied Energy, 2016, 175, 545-550.	10.1	11
100	Voltammetric study of one-step electrochemical methane production during water and CO ₂ co-electrolysis in molten CsH ₂ PO ₄ . Renewable Energy, 2020, 145, 508-513.	8.9	11
101	Vibrational Spectra of Oxide-Contaminated Tetrachloroaluminate Melts.. Acta Chemica Scandinavica, 1986, 40a, 445-451.	0.7	11
102	Raman and NMR Studies in the System Phosphoryl Chloride-Aluminium Chloride.. Acta Chemica Scandinavica, 1993, 47, 344-357.	0.7	11
103	Laser-induced fluorescence of high-temperature vapor complexes of ErCl ₃ with AlCl ₃ , GaCl ₃ and InCl ₃ . Chemical Physics Letters, 1980, 75, 483-487.	2.6	10
104	Raman study of halogen exchange equilibria in low melting mixtures consisting of sodium tetrachloroaluminate and tetrabromoaluminate. Polyhedron, 1985, 4, 457-461.	2.2	10
105	Infrared and Raman Spectroscopic Investigations of the Nb(V) Fluoro and Oxofluoro Complexes in the LiF-NaF-KF Eutectic Melt with Development of a Diamond IR Cell. Inorganic Chemistry, 2000, 39, 3449-3454.	4.0	10
106	Thermal, Conductivity, NMR, and Raman Spectroscopic Measurements and Phase Diagram of the Cs ₂ S ₂ O ₇ -CsHSO ₄ System. Journal of Physical Chemistry B, 2003, 107, 13823-13830.	2.6	10
107	Thermodynamic and structural properties of high temperature solid and liquid EuBr ₂ . Journal of Nuclear Materials, 2005, 344, 115-119.	2.7	10
108	Water vapor pressure over molten KH ₂ PO ₄ and demonstration of water electrolysis at ~300 °C. Applied Energy, 2016, 180, 269-275.	10.1	10

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109	Polarized i.r. Raman spectra of small single crystals of dichloro (ethylenediamine) palladium (II). Spectrochimica Acta Part A: Molecular Spectroscopy, 1975, 31, 1409-1419.	0.1	9
110	Low-temperature far-infrared spectra of some tetrachloropalladate(II) and tetrachloroplatinate(II) salts. Journal of the Chemical Society Dalton Transactions, 1976, , 52.	1.1	9
111	Crystal data and polarized i.r. transmission spectra of ethylenediammoniumtetrachloropalladate(II), with comparison of powder and single crystal results. Spectrochimica Acta Part A: Molecular Spectroscopy, 1976, 32, 1747-1757.	0.1	9
112	Resonance raman spectra of S3 ²⁻ in molten salts. Inorganic and Nuclear Chemistry Letters, 1980, 16, 201-204.	0.7	9
113	The structure of deuterated tetramethylammonium hexachloroplatinate investigated by neutron powder diffraction. Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry, 1980, 36, 1001-1006.	0.4	9
114	Negative oxidation states of chalcogens in molten salts. 2. Raman spectroscopic, spectrophotometric, and electron spin resonance studies on chloroaluminate solutions containing an S3 ²⁻ entity. Inorganic Chemistry, 1982, 21, 3396-3400.	4.0	9
115	A new family of vitreous materials: The cesium aluminum or gallium thiohalide glasses. Materials Research Bulletin, 1987, 22, 1517-1523.	5.2	9
116	Spectroscopic and Thermal Investigations of the Fluoroaluminate Complex Formation in NaF ⁺ KF and LiF ⁺ NaF ⁺ KF Eutectics. Inorganic Chemistry, 2003, 42, 1901-1907.	4.0	9
117	Diffusion Measurements in Binary Liquid Mixtures by Raman Spectroscopy. Applied Spectroscopy, 2007, 61, 367-373.	2.2	9
118	X-ray Crystal Structure, Raman Spectroscopy, and Ab Initio Density Functional Theory Calculations on 1,1,3,3-Tetramethylguanidinium Bromide. Journal of Physical Chemistry A, 2010, 114, 13175-13181.	2.5	9
119	A Redetermination of the Crystal Structure of Tetramethylammonium Hexachlorostannate(IV) at 160 K and at 295 K in the Fd3c Space Group.. Acta Chemica Scandinavica, 1980, 34a, 153-154.	0.7	9
120	Vapor complexes of erbium(III) chloride with aluminum(III), gallium(III) and indium(III) chlorides. Inorganica Chimica Acta, 1980, 45, L211-L213.	2.4	8
121	Electrochemical Behavior of Molten $\text{V}^{2+}\text{O}^{5+}\text{K}^{2+}\text{S}^{2+}\text{O}^{7+}\text{Ca}^{8+}$ Society, 1997, 144, 532-539.	2.9	8
122	Stoichiometry, Vibrational Modes, and Structure of Niobium(V) Oxosulfato Complexes in the Molten $\text{Nb}_2\text{O}_5\text{K}_2\text{S}_2\text{O}_7$ System Studied by Raman Spectroscopy. Journal of Physical Chemistry A, 2010, 114, 7485-7493.		8
123	CsH_2PO_4 as Electrolyte for the Formation of CH_4 by Electrochemical Reduction of CO_2 . Journal of the Electrochemical Society, 2020, 167, 044511.	2.9	8
124	The CsBr-AlBr ₃ Phase Diagram and the Crystal Structure of CsAlBr ₄ .. Acta Chemica Scandinavica, 1997, 51, 455-461.	0.7	8
125	Mechanism of Reaction in NaAlCl ₄ Molten Salt Batteries with Nickel Felt Cathodes and Aluminum Anodes: I. Modeling of the Battery Properties at Thermodynamic Equilibrium. Journal of the Electrochemical Society, 1993, 140, 3374-3379.	2.9	7
126	Ab initio MO Calculations on the Structure and Raman and Infrared Spectra of $[\text{Al}_4\text{O}_2\text{Cl}_{10}]^{2-}$ Oxide in Chloroaluminate Melts. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2007, 62, 157-168.	1.5	7

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127	CsH ₂ PO ₄ is not stable at 260 °C unless confined. Comments to article by C.E. Botez, I. Martinez, A. Price, H. Martinez, and J.H. Leal in J. Phys. Chem. Solids 129 (2019) 324-328. Journal of Physics and Chemistry of Solids, 2020, 136, 109177.	4.0	7
128	Tetrapotassium <i>cis</i> -dioxido- <i>trans</i> -bis(sulfato- μ -O)sulfato(μ - ² O, μ -O) μ -molybdate(VI). Acta Crystallographica Section E: Structure Reports Online, 2008, 64, i20-i20.	0.2	7
129	Copper(I) complex formation in chloride melts. Raman spectroscopic and cryoscopic study. Polyhedron, 1989, 8, 325-332.	2.2	6
130	Vibrational Spectra of Fluoro and Oxofluoro Complexes of Nb(V) and Ta(V). Materials Science Forum, 1991, 73-75, 279-284.	0.3	6
131	Raman mapping in the elucidation of solid salt eutectic and near eutectic structures. Journal of Raman Spectroscopy, 2002, 33, 165-172.	2.5	6
132	Upgrade of a Raman Spectrometer. Applied Spectroscopy Reviews, 2004, 39, 385-397.	6.7	6
133	Potassium bis(μ -sulfato- μ -O:2 μ -O) μ -bis[<i>cis</i> -dioxido- <i>cis</i> -bis(sulfato- μ -O)tungstate(VI)]. Acta Crystallographica Section E: Structure Reports Online, 2005, 61, i49-i51.	0.2	6
134	<i>catena</i> -Poly[tetrasodium [[<i>cis</i> -dioxido- <i>trans</i> -bis(sulfato- μ -O)molybdate(VI)]- μ -sulfato- μ - ² O, μ -O:2 μ -O] μ]. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, i73-i73.	0.2	6
135	Potentiometric Investigation of the Oxide Behavior in NaCl-AlCl ₃ Melts at 175 °C. Journal of the Electrochemical Society, 1987, 134, 1153-1157.	2.9	5
136	Electrochemical Investigation of the Catalytical Processes in Sulfuric Acid Production. Journal of the Electrochemical Society, 1995, 142, 1805-1813.	2.9	5
137	Ge nanoclusters in PECVD-deposited glass after heat treatment and electron-beam irradiation. Applied Physics B: Lasers and Optics, 2007, 87, 327-331.	2.2	5
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