

Mirosław Maczka

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#	Paper	IF	Citations
327	Order-disorder transition and weak ferromagnetism in the perovskite metal formate frameworks of $[(\text{CH}_3)_2\text{NH}_2][\text{M}(\text{HCOO})_3]$ and $[(\text{CH}_3)_2\text{ND}_2][\text{M}(\text{HCOO})_3]$ (M = Ni, Mn). <i>Inorganic Chemistry</i> , 2014 , 53, 457-67	5.1	155
326	Perovskite metal formate framework of $[\text{NH}_2\text{-CH(+)-NH}_2]\text{Mn}(\text{HCOO})_3$: phase transition, magnetic, dielectric, and phonon properties. <i>Inorganic Chemistry</i> , 2014 , 53, 5260-8	5.1	129
325	Synthesis of disordered pyrochlores, $\text{A}_2\text{Ti}_2\text{O}_7$ (A=Y, Gd and Dy), by mechanical milling of constituent oxides. <i>Solid State Sciences</i> , 2005 , 7, 343-353	3.4	128
324	Phase Transitions and Coexistence of Magnetic and Electric Orders in the Methylhydrazinium Metal Formate Frameworks. <i>Chemistry of Materials</i> , 2017 , 29, 2264-2275	9.6	114
323	Structure, phonon properties, and order-disorder transition in the metal formate framework of $[\text{NH}_4][\text{Mg}(\text{HCOO})_3]$. <i>Inorganic Chemistry</i> , 2014 , 53, 787-94	5.1	108
322	Pressure-induced structural phase transitions and amorphization in selected molybdates and tungstates. <i>Progress in Materials Science</i> , 2012 , 57, 1335-1381	42.2	89
321	Infrared and Raman studies of phase transitions in metal-organic frameworks of $[(\text{CH}_3)_2\text{NH}_2][\text{M}(\text{HCOO})_3]$ with M=Zn, Fe. <i>Vibrational Spectroscopy</i> , 2014 , 71, 98-104	2.1	87
320	Experimental and theoretical studies of structural phase transition in a novel polar perovskite-like $[\text{C}_2\text{H}_5\text{NH}_3][\text{Na}_{0.5}\text{Fe}_{0.5}(\text{HCOO})_3]$ formate. <i>Dalton Transactions</i> , 2016 , 45, 2574-83	4.3	85
319	Synthesis and order-disorder transition in a novel metal formate framework of $[(\text{CH}_3)_2\text{NH}_2][\text{Na}_{0.5}\text{Fe}_{0.5}(\text{HCOO})_3]$. <i>Dalton Transactions</i> , 2014 , 43, 17075-84	4.3	71
318	Structural, microstructural and vibrational characterization of apatite-type lanthanum silicates prepared by mechanical milling. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 522-531	3.3	69
317	Temperature- and pressure-induced phase transitions in the metal formate framework of $[\text{ND}_4][\text{Zn}(\text{DCOO})_2]$ and $[\text{NH}_4][\text{Zn}(\text{HCOO})_2]$. <i>Inorganic Chemistry</i> , 2014 , 53, 9615-24	5.1	66
316	Temperature-dependent studies of the geometrically frustrated pyrochlores $\text{Ho}_2\text{Ti}_2\text{O}_7$ and $\text{Dy}_2\text{Ti}_2\text{O}_7$. <i>Physical Review B</i> , 2009 , 79,	3.3	66
315	Methylhydrazinium Lead Bromide: Noncentrosymmetric Three-Dimensional Perovskite with Exceptionally Large Framework Distortion and Green Photoluminescence. <i>Chemistry of Materials</i> , 2020 , 32, 1667-1673	9.6	65
314	Effect of aliovalent doping on the properties of perovskite-like multiferroic formates. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 9337-9345	7.1	62
313	Phonons in ferroelectric Bi_2WO_6 : Raman and infrared spectra and lattice dynamics. <i>Applied Physics Letters</i> , 2008 , 92, 112911	3.4	62
312	Synthesis and characterization of $[(\text{CH}_3)_2\text{NH}_2][\text{Na}_{0.5}\text{Cr}_{0.5}(\text{HCOO})_3]$: a rare example of luminescent metal-organic frameworks based on Cr(III) ions. <i>Dalton Transactions</i> , 2015 , 44, 6871-9	4.3	61
311	Europium-doped lead fluoroborate glasses: Structural, thermal and optical investigations. <i>Journal of Molecular Structure</i> , 2006 , 792-793, 207-211	3.4	58

310	Structure and vibrational dynamics of tetragonal NaBi(WO ₄) ₂ scheelite crystal. <i>Vibrational Spectroscopy</i> , 1996 , 12, 25-36	2.1	58
309	Three-Dimensional Perovskite Methylhydrazinium Lead Chloride with Two Polar Phases and Unusual Second-Harmonic Generation Bistability above Room Temperature. <i>Chemistry of Materials</i> , 2020 , 32, 4072-4082	9.6	56
308	Temperature-dependent studies of [(CH ₃) ₂ NH ₂][Fe(III)M(II)(HCOO) ₆] frameworks (M(II) = Fe and Mg): structural, magnetic, dielectric and phonon properties. <i>Dalton Transactions</i> , 2015 , 44, 8846-54	4.3	54
307	Vibrational properties and DFT calculations of the perovskite metal formate framework of [(CH ₃) ₂ NH ₂][Ni(HCOO ₃)] system. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 128, 674-80	4.4	54
306	Temperature-dependent XRD, IR, magnetic, SEM and TEM studies of Jahn-Teller distorted NiCr ₂ O ₄ powders. <i>Journal of Solid State Chemistry</i> , 2013 , 201, 270-279	3.3	54
305	Compositional-dependent lead borate based glasses doped with Eu ³⁺ ions: Synthesis and spectroscopic properties. <i>Journal of Physics and Chemistry of Solids</i> , 2006 , 67, 2452-2457	3.9	54
304	Phonon-instability-driven phase transitions in ferroelectric Bi ₂ WO ₆ :Eu ³⁺ : High-pressure Raman and photoluminescence studies. <i>Physical Review B</i> , 2008 , 77,	3.3	52
303	Vibrational Properties of Double Tungstates of the MIMIII(WO ₄) ₂ Family (MI = Li, Na, K; MIII = Bi, Cr). <i>Journal of Solid State Chemistry</i> , 1995 , 117, 177-188	3.3	52
302	Effect of solvent, temperature and pressure on the stability of chiral and perovskite metal formate frameworks of [NHNH][M(HCOO)] (M = Mn, Fe, Zn). <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 31653-31663	3.6	49
301	Temperature-dependent Raman scattering studies of Na ₂ MoO ₄ . <i>Journal of Raman Spectroscopy</i> , 2008 , 39, 937-941	2.3	48
300	Facile synthesis, characterization and electrical properties of apatite-type lanthanum germanates. <i>Solid State Sciences</i> , 2006 , 8, 168-177	3.4	48
299	Luminescence properties of europium activated SrIn ₂ O ₄ . <i>Journal of Alloys and Compounds</i> , 2005 , 394, 88-92	5.7	48
298	Pressure-induced structural transformations in the molybdate Sc ₂ (MoO ₄) ₃ . <i>Physical Review B</i> , 2004 , 69,	3.3	48
297	Structural, magnetic and dielectric properties of two novel mixed-valence iron(II)-iron(III) metal formate frameworks. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 1186-1193	7.1	47
296	Optical properties of chromium(III) in trigonal KAl(MoO ₄) ₂ and monoclinic NaAl(MoO ₄) ₂ hosts. <i>Journal of Luminescence</i> , 2000 , 92, 151-159	3.8	47
295	Spectroscopic studies of dynamically compacted monoclinic ZrO ₂ . <i>Journal of Physics and Chemistry of Solids</i> , 1999 , 60, 1909-1914	3.9	47
294	Polarized IR and Raman spectra of tetragonal NaBi(WO ₄) ₂ , NaBi(MoO ₄) ₂ and LiBi(MoO ₄) ₂ single crystals with scheelite structure. <i>Journal of Molecular Structure</i> , 1995 , 348, 349-352	3.4	47
293	Layered Lead Iodide of [Methylhydrazinium] ₂ PbI ₄ with a Reduced Band Gap: Thermochromic Luminescence and Switchable Dielectric Properties Triggered by Structural Phase Transitions. <i>Chemistry of Materials</i> , 2019 , 31, 8563-8575	9.6	46

292	Structure and vibrational properties of tetragonal scheelite $\text{NaBi}(\text{MoO}_4)_2$. <i>Journal of Raman Spectroscopy</i> , 1997 , 28, 953-963	2.3	46
291	A comparative study of negative thermal expansion materials $\text{Sc}_2(\text{MoO}_4)_3$ and $\text{Al}_2(\text{WO}_4)_3$ crystals. <i>Vibrational Spectroscopy</i> , 2007 , 44, 69-77	2.1	46
290	Synthesis and characterization of novel niccolites $[(\text{CH}_3)_2\text{NH}_2][\text{Fe}(\text{III})\text{M}(\text{II})(\text{HCOO})_6]$ ($\text{M}(\text{II}) = \text{Zn}, \text{Ni}, \text{Cu}$). <i>Dalton Transactions</i> , 2015 , 44, 13234-41	4.3	45
289	A Critical Review of Existing Criteria for the Prediction of Pyrochlore Formation and Stability. <i>Inorganic Chemistry</i> , 2018 , 57, 12093-12105	5.1	45
288	Synthesis, phonon and optical properties of nanosized CoCr_2O_4 . <i>Materials Chemistry and Physics</i> , 2013 , 138, 682-688	4.4	44
287	Vibrational Characteristics of the Alkali Metal Indium Double Molybdates $\text{MIn}(\text{MoO}_4)_2$ and Tungstates $\text{MIn}(\text{WO}_4)_2$ ($\text{M} = \text{Li}, \text{Na}, \text{K}, \text{Cs}$). <i>Journal of Solid State Chemistry</i> , 1997 , 129, 287-297	3.3	44
286	Temperature-dependent Raman study of the spin-liquid pyrochlore $\text{Tb}_2\text{Ti}_2\text{O}_7$. <i>Physical Review B</i> , 2008 , 78,	3.3	44
285	IR and Raman spectroscopy study of YAG nanoceramics. <i>Chemical Physics Letters</i> , 2010 , 494, 279-283	2.5	43
284	The Structure and Spectroscopic Properties of $\text{Al}_{2-x}\text{Cr}_x(\text{WO}_4)_3$ Crystals in Orthorhombic and Monoclinic Phases. <i>Journal of Solid State Chemistry</i> , 1993 , 105, 49-69	3.3	42
283	Raman and IR studies of pressure- and temperature-induced phase transitions in $[(\text{CH}_2)_3\text{NH}_2][\text{Zn}(\text{HCOO})_3]$. <i>Inorganic Chemistry</i> , 2014 , 53, 12650-7	5.1	41
282	High-pressure Raman study of $\text{Al}_2(\text{WO}_4)_3$. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 2002-2006	3.3	40
281	Lattice dynamics and temperature-dependent Raman and infrared studies of multiferroic $\text{Mn}_{0.85}\text{Co}_{0.15}\text{WO}_4$ and $\text{Mn}_{0.97}\text{Fe}_{0.03}\text{WO}_4$ crystals. <i>Physical Review B</i> , 2011 , 83,	3.3	39
280	Structural, thermal, dielectric and phonon properties of perovskite-like imidazolium magnesium formate. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 13993-4000	3.6	38
279	Comparative studies of vibrational properties and phase transitions in metal-organic frameworks of $[\text{NH}_4][\text{M}(\text{HCOO})_3]$ with $\text{M} = \text{Mg}, \text{Zn}, \text{Ni}, \text{Fe}, \text{Mn}$. <i>Vibrational Spectroscopy</i> , 2015 , 77, 17-24	2.1	37
278	Synthesis, crystal structure, magnetic and vibrational properties of formamidine-templated Co and Fe formates. <i>Polyhedron</i> , 2015 , 85, 137-143	2.7	36
277	Structural phase transition in perovskite metal-formate frameworks: a Potts-type model with dipolar interactions. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 18528-35	3.6	36
276	Influence of thermally induced oxygen order on mobile ion dynamics in $\text{Gd}_2(\text{Ti}_{0.65}\text{Zr}_{0.35})_2\text{O}_7$. <i>Physical Review B</i> , 2007 , 75,	3.3	36
275	Phase transition and vibrational properties of $\text{A}_2(\text{BO}_4)_3$ compounds ($\text{A} = \text{Sc}, \text{In}; \text{B} = \text{Mo}, \text{W}$). <i>Journal of Molecular Structure</i> , 2005 , 744-747, 283-288	3.4	36

274	Low-temperature and high-pressure structural behaviour of NaBi(MoO ₄) ₂ ·n H ₂ O X-ray diffraction study. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 2218-2224	3.3	36
273	Temperature-induced phase transformations in Na ₂ WO ₄ and Na ₂ MoO ₄ crystals. <i>Journal of Raman Spectroscopy</i> , 2011 , 42, 799-802	2.3	35
272	EPR Study of Structural Phase Transition in Manganese-Doped [(CH ₃) ₂ NH ₂][Zn(HCOO) ₃] Metal-Organic Framework. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 24522-24528	3.8	34
271	Dielectric relaxation behavior in antiferroelectric metal organic framework [(CH ₃) ₂ NH ₂][Fe(III)Fe(II)(HCOO) ₆] single crystals. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 8462-7	3.6	34
270	Temperature-dependent Raman scattering studies on Na ₂ Mo ₂ O ₇ disodium dimolybdate. <i>Journal of Raman Spectroscopy</i> , 2011 , 42, 1114-1119	2.3	34
269	Biochemical, mechanical, and spectroscopic analyses of genetically engineered flax fibers producing bioplastic (poly-beta-hydroxybutyrate). <i>Biotechnology Progress</i> , 2009 , 25, 1489-98	2.8	34
268	Chemical composition and molecular structure of fibers from transgenic flax producing polyhydroxybutyrate, and mechanical properties and platelet aggregation of composite materials containing these fibers. <i>Composites Science and Technology</i> , 2009 , 69, 2438-2446	8.6	33
267	High-temperature thermal and X-ray diffraction studies, and room-temperature spectroscopic investigation of some inorganic pigments. <i>Dyes and Pigments</i> , 2011 , 91, 286-293	4.6	33
266	Raman scattering studies of pressure-induced phase transitions in perovskite formates [(CH ₃) ₂ NH ₂][Mg(HCOO) ₃] and [(CH ₃) ₂ NH ₂][Cd(HCOO) ₃]. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016 , 156, 112-7	4.4	32
265	Temperature- and pressure-induced phase transitions in the niccolite-type formate framework of [H ₃ N(CH ₃) ₄ NH ₃][Mn ₂ (HCOO) ₆]. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 3185-3194	7.1	32
264	Luminescence, electronic absorption and vibrational IR and Raman studies of binary and ternary cerium ortho-, pyro- and meta-phosphates doped with Pr ³⁺ ions. <i>Optical Materials</i> , 2007 , 29, 1192-1205	3.3	32
263	FT-Raman spectroscopic study of human skin subjected to uniaxial stress. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013 , 18, 240-52	4.1	31
262	Vibrational properties of the double molybdates MX(MoO ₄) ₂ family (M = Li,Na,K,Cs; X = Bi,Cr). <i>Vibrational Spectroscopy</i> , 1994 , 7, 85-96	2.1	31
261	Structural manipulation of pyrochlores: Thermal evolution of metastable Gd ₂ (Ti _{1-x} Zr _x) ₂ O ₇ powders prepared by mechanical milling. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 3805-3813	3.3	30
260	Phase transitions and chromium(III) luminescence in perovskite-type [CH ₃ NH][NaCrAl(HCOO)] (x = 0, 0.025, 0.5), correlated with structural, dielectric and phonon properties. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 29629-29640	3.6	30
259	Particle size effects on the magnetic and phonon properties of multiferroic CoCr ₂ O ₄ . <i>Journal of Solid State Chemistry</i> , 2013 , 199, 295-304	3.3	29
258	Brillouin scattering study of ferroelectric transition mechanism in multiferroic metal-organic frameworks of [NH ₄][Mn(HCOO) ₃] and [NH ₄][Zn(HCOO) ₃]. <i>Applied Physics Letters</i> , 2014 , 104, 222903	3.4	29
257	Crystal structure and vibrational properties of KMg ₄ (PO ₄) ₃ . <i>Solid State Sciences</i> , 2005 , 7, 1201-1208	3.4	29

256	[Methylhydrazinium]2PbBr4, a Ferroelectric Hybrid Organic-Inorganic Perovskite with Multiple Nonlinear Optical Outputs. <i>Chemistry of Materials</i> , 2021 , 33, 2331-2342	9.6	29
255	Electron paramagnetic resonance and electric characterization of a [CH3NH2NH2][Zn(HCOO)3] perovskite metal formate framework. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 4526-4536	7.1	28
254	Temperature-dependent IR and Raman studies of metal-organic frameworks [(CH3)2NH][M(HCOO)] M=Mg and Cd. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016 , 159, 35-41	4.4	28
253	On the origin of ferroelectric structural phases in perovskite-like metal-organic formate. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 9420-9429	7.1	28
252	Structural, phonon, magnetic and optical properties of novel perovskite-like frameworks of TriBuMe[M(dca)] (TriBuMe = tributylmethylammonium; dca = dicyanamide; M = Mn, Fe, Co, Ni). <i>Dalton Transactions</i> , 2019 , 48, 13006-13016	4.3	28
251	Polarized IR and Raman spectra of Ca2MgSi2O7, Ca2ZnSi2O7 and Sr2MgSi2O7 single crystals: Temperature-dependent studies of commensurate to incommensurate and incommensurate to normal phase transitions. <i>Journal of Solid State Chemistry</i> , 2012 , 191, 90-101	3.3	28
250	Polarized IR, spontaneous and stimulated Raman spectra of Y(HCOO)3·2H2O single crystal: a new Raman laser material. <i>Journal of Raman Spectroscopy</i> , 2006 , 37, 1257-1264	2.3	28
249	Spectroscopic Properties and Magnetic Phase Transitions in Scheelite MCr(MoO4)2 and Wolframite MCr(WO4)2 Crystals, where M=Li, Na, K, and Cs. <i>Journal of Solid State Chemistry</i> , 1999 , 148, 468-478	3.3	28
248	Poly-3-hydroxy butyric acid interaction with the transgenic flax fibers: FT-IR and Raman spectra of the composite extracted from a GM flax. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009 , 73, 286-94	4.4	27
247	Crystal structure and vibrational properties of nonlinear Eu3BWO9 and Nd3BWO9 crystals. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 3595-3602	3.3	27
246	Electrical and thermophysical properties of mechanochemically obtained lanthanide hafnates. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1994-2004	3.8	26
245	Temperature- and pressure-dependent studies of a highly flexible and compressible perovskite-like cadmium dicyanamide framework templated with protonated tetrapropylamine. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 2408-2420	7.1	26
244	Effect of intermolecular C-H...O interaction on the crystal structure and vibrational properties of 2,6-dimethyl-4-nitropyridine N-oxide. <i>Journal of Molecular Structure</i> , 1998 , 450, 201-212	3.4	26
243	Optical properties of chromium(III) in MIn(MoO4)2 hosts, where M= Li, Na, K, Rb, Cs. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 5807-5816	1.8	26
242	The effect of K cations on the phase transitions, and structural, dielectric and luminescence properties of [cat][KCr(HCOO)], where cat is protonated dimethylamine or ethylamine. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 12156-12166	3.6	25
241	Raman scattering study of NaAl(MoO4)2 crystal under high pressures. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 5151-5161	1.8	25
240	Structure and properties of the KNbW2O9 hexagonal bronze doped with Eu3+ ions as an optically active probe. <i>Journal of Alloys and Compounds</i> , 2004 , 380, 248-254	5.7	25
239	Suppression of phase transitions and glass phase signatures in mixed cation halide perovskites. <i>Nature Communications</i> , 2020 , 11, 5103	17.4	25

238	Structural, magnetic and phonon properties of Cr(III)-doped perovskite metal formate framework [(CH ₃) ₂ NH ₂][Mn(HCOO) ₃]. <i>Journal of Solid State Chemistry</i> , 2016 , 237, 150-158	3.3	24
237	Low-temperature synthesis, phonon and luminescence properties of Eu doped Y ₃ Al ₅ O ₁₂ (YAG) nanopowders. <i>Materials Chemistry and Physics</i> , 2014 , 143, 1039-1047	4.4	24
236	Optical properties of Eu and Er doped LaAlO ₃ nanopowders prepared by low-temperature method. <i>Journal of Solid State Chemistry</i> , 2012 , 194, 264-269	3.3	24
235	Crystal structure and phonon properties of noncentrosymmetric LiNaB ₄ O ₇ . <i>Journal of Solid State Chemistry</i> , 2007 , 180, 410-419	3.3	24
234	Spectroscopic Study of Structural Phase Transition and Dynamic Effects in a [(CH ₃) ₂ NH ₂][Cd(N ₃) ₃] Hybrid Perovskite Framework. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 11840-11849	3.8	23
233	Magnetic and low temperature phonon studies of CoCr ₂ O ₄ powders doped with Fe(III) and Ni(II) ions. <i>Journal of Solid State Chemistry</i> , 2014 , 212, 218-226	3.3	23
232	Synthesis and electrical, optical and phonon properties of nanosized Aurivillius phase Bi ₂ WO ₆ . <i>Materials Chemistry and Physics</i> , 2010 , 120, 289-295	4.4	23
231	Crystal structure and lattice dynamics of Sr ₃ Y(BO ₃) ₃ . <i>Journal of Solid State Chemistry</i> , 2008 , 181, 3211-3216	3.6	23
230	Room-temperature synthesis of apatite-type lanthanum silicates by mechanically milling constituent oxides. <i>Solid State Ionics</i> , 2006 , 177, 1869-1873	3.3	23
229	Bis(Guanidinium) Zirconium bis(Nitrilotriacetate) Hydrate, [C(NH ₂) ₃] ₂ Zr[N(CH ₂ COO) ₃] ₂ · 2H ₂ O: A New Crystal for Raman Laser Converters. <i>Physica Status Solidi A</i> , 2002 , 193, 167-178		23
228	High pressure effects on the structural and vibrational properties of antiferromagnetic KFe(MoO ₄) ₂ . <i>Journal of Physics Condensed Matter</i> , 2005 , 17, 6285-6300	1.8	23
227	Vibrational properties and DFT calculations of formamidine-templated Co and Fe formates. <i>Vibrational Spectroscopy</i> , 2014 , 75, 45-50	2.1	22
226	Thermodynamic modeling, structural and spectroscopic studies of the KNbWO ₆ /SbWO ₆ /TaWO ₆ system. <i>Thermochimica Acta</i> , 2010 , 506, 20-27	2.9	22
225	Size dependence on infrared spectra of NaGdF ₄ nanocrystals. <i>Chemical Physics Letters</i> , 2006 , 418, 75-78	2.5	22
224	Vibrational characteristics of the double oxygen bridge in the NaIn(WO ₄) ₂ and NaSc(WO ₄) ₂ tungstates with wolframite structure. <i>Journal of Molecular Structure</i> , 1999 , 511-512, 85-106	3.4	22
223	Temperature-dependent studies of a new two-dimensional cadmium dicyanamide framework exhibiting an unusual temperature-induced irreversible phase transition into a three-dimensional perovskite-like framework. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 29951-29958	3.6	22
222	Correlation between the structural and spectroscopic parameters for Cd _{1-x} Gd _{2x} xMoO ₄ solid solutions where x denotes cationic vacancies. <i>Materials Chemistry and Physics</i> , 2013 , 139, 890-896	4.4	21
221	Lattice dynamics and pressure-induced phase transitions in Bi ₂ W ₂ O ₉ : High-pressure Raman study. <i>Physical Review B</i> , 2010 , 81,	3.3	21

220	Observation of attractive intermolecular π -C=O interaction in the crystal packing of 3-chloro- and 3-bromo-2,6-dimethyl-4-nitropyridine N-oxide. <i>Vibrational Spectroscopy</i> , 1997 , 14, 49-58	2.1	21
219	Pressure-induced irreversible phase transition in $\text{KSc}(\text{MoO}_4)_2$. <i>Physical Review B</i> , 2003 , 67,	3.3	21
218	Synthesis and temperature-dependent studies of a perovskite-like manganese formate framework templated with protonated acetamidine. <i>Dalton Transactions</i> , 2017 , 46, 8476-8485	4.3	20
217	Exploring the Antipolar Nature of Methylammonium Lead Halides: A Monte Carlo and Pyrocurrent Study. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4906-4911	6.4	20
216	Low-temperature synthesis, luminescence and phonon properties of Er and/or Dy doped LaAlO_3 nanopowders. <i>Journal of Solid State Chemistry</i> , 2012 , 187, 249-257	3.3	20
215	Thermodynamic and spectroscopic properties of spinel with the formula $\text{Li}_{4/3}\text{Ti}_5/3\text{O}_4$. <i>Thermochimica Acta</i> , 2013 , 559, 40-45	2.9	20
214	Crystal structure, spectroscopy and thermodynamic properties of $\text{MgWO}_6(\text{M} = \text{Li, Na})$. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 3003-3012	3.3	20
213	Structure and phase composition of nanocrystalline $\text{Ce}_{1-x}\text{Lu}_x\text{O}_2$. <i>Journal of Solid State Chemistry</i> , 2008 , 181, 2306-2312	3.3	20
212	Non-centrosymmetric $\text{Y}(\text{HCOO})_3 \cdot 2 \text{H}_2\text{O}$ crystal. A new inorganic material for Raman lasers with large frequency shift of three promoting vibration modes of its $[\text{O}(\text{C}=\text{O})\text{C}(\text{O})\text{O}]^-$ formate anions: effective high-order Stokes and anti-Stokes generation and cascaded self-frequency $[(\text{B})(\text{SRS}) - (\text{R})(\text{SHG}, \text{SFM})]$ and $[(\text{R})(\text{SHG}, \text{SFM}) - (\text{B})(\text{SRS})]$ conversions. <i>Physica Status Solidi A</i> , 2004 , 201, 3200-3216		20
211	Spectroscopic Study of $[(\text{CH}_3)_2\text{NH}_2][\text{Zn}(\text{HCOO})_3]$ Hybrid Perovskite Containing Different Nitrogen Isotopes. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 10284-10292	3.8	19
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