

Aleksander S Krylov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

188
papers

2,005
citations

22
h-index

37
g-index

201
ext. papers

2,329
ext. citations

2.2
avg, IF

4.86
L-index

#	Paper	IF	Citations
188	New double nonlinear-optical borate Rb ₃ SmB ₆ O ₁₂ : synthesis, structure and spectroscopic properties. <i>Journal of Alloys and Compounds</i> , 2022 , 164022	5.7	0
187	The behavior of zeolites wairakite and phillipsite at high P-T parameters.. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022 , 273, 120979	4.4	0
186	Temperature dependent structural, dielectric, Raman, piezoresponse and photoluminescence investigations in sol-gel derived BCZT ceramics. <i>Materials Chemistry and Physics</i> , 2022 , 277, 125526	4.4	1
185	Spectroscopy of structurally disordered hydrated iron fluoridotitanate in the regions of vibrational and electronic excitations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022 , 264, 120244	4.4	0
184	Pressure-temperature Phase Diagram of Multiferroic TbFe _{2.46} Ga _{0.54} (BO ₃) ₄ . <i>Magnetochemistry</i> , 2022 , 8, 59	3.1	
183	High-pressure transformation of dithiazolylidene-dithiazolium polyiodide with N-H... hydrogen bond: A Raman Spectroscopy study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 268, 120635	4.4	0
182	Raman Study of Hydro-Cancrinite Compressed in an Aqueous Medium at High Pressures and Temperatures. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2021 , 85, 962-964	0.4	
181	Synthesis, Crystal Structure, and Physicochemical Properties of Bi _{4-x} Pr _x Ti ₃ O ₁₂ (x = 0.4, 0.8, 1.2, 1.6) Solid Solutions. <i>Inorganic Materials</i> , 2021 , 57, 919-928	0.9	0
180	Synthesis, structure, and properties of EuScCuS ₃ and SrScCuS ₃ . <i>Journal of Solid State Chemistry</i> , 2021 , 296, 121926	3.3	5
179	Electronic band structures of NdFe ₃ (BO ₃) ₄ and NdGa ₃ (BO ₃) ₄ crystals: ab initio calculations. <i>Ferroelectrics</i> , 2021 , 575, 11-17	0.6	1
178	Structural Phase Transition in (NH ₄) ₃ GeF ₇ B Raman Spectroscopy Data. <i>Crystals</i> , 2021 , 11, 506	2.3	
177	Synthesis, structure and photoluminescent properties of Eu:Gd ₂ O ₃ nanophosphor synthesized by cw CO ₂ laser vaporization. <i>Journal of Luminescence</i> , 2021 , 235, 118050	3.8	4
176	Temperature-dependent Raman spectroscopy, domain morphology and photoluminescence studies in lead-free BCZT ceramic. <i>Ceramics International</i> , 2021 , 47, 2828-2838	5.1	5
175	Tailoring adsorption induced switchability of a pillared layer MOF by crystal size engineering. <i>CrystEngComm</i> , 2021 , 23, 538-549	3.3	6
174	Crystal and electronic structure, thermochemical and photophysical properties of europium-silver sulfate monohydrate AgEu(SO ₄) ₂ ·H ₂ O. <i>Journal of Solid State Chemistry</i> , 2021 , 294, 121898	3.3	2
173	Negative thermal expansion in one-dimension of a new double sulfate AgHo(SO ₄) ₂ with isolated SO ₄ tetrahedra. <i>Journal of Materials Science and Technology</i> , 2021 , 76, 111-121	9.1	20
172	Study of flux crystal growth peculiarities, structure and Raman spectra of double (Mn,Ni) ₃ BO ₅ and triple (Mn,Ni,Cu) ₃ BO ₅ oxyborates with ludwigite structure. <i>CrystEngComm</i> , 2021 , 23, 5624-5635	3.3	1

171	Synthesis, Crystal Structure, Luminescence, and Thermophysical Properties of TbGaGe ₂ O ₇ . <i>Physics of the Solid State</i> , 2021 , 63, 75-78	0.8	1
170	Pseudo-Anomalous Size-Dependent Electron-Phonon Interaction in Graded Energy Band: Solving the Fano Paradox. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2044-2051	6.4	8
169	Synthesis, structure, melting and optical properties of three complex orthorhombic sulfides BaDyCuS ₃ , BaHoCuS ₃ and BaYbCuS ₃ . <i>Materials Research Bulletin</i> , 2021 , 140, 111314	5.1	3
168	Dynamical Immiscibility of Aqueous Carbonate Fluid in the Shortite-Water System at High-Pressure-Temperature Conditions. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 18501-18509	3.8	2
167	Crystal Structure, Vibrational, Spectroscopic and Thermochemical Properties of Double Sulfate Crystalline Hydrate [CsEu(H ₂ O) ₃ (SO ₄) ₂] _n H ₂ O and Its Thermal Dehydration Product CsEu(SO ₄) ₂ . <i>Crystals</i> , 2021 , 11, 1027	2.3	5
166	Exploration of the structural, spectroscopic and thermal properties of double sulfate monohydrate NaSm(SO ₄) ₂ ·H ₂ O and its thermal decomposition product NaSm(SO ₄) ₂ . <i>Advanced Powder Technology</i> , 2021 , 32, 3943-3943	4.6	1
165	Synthesizing Zinc Sulfide Films on the Gold Surface as the Sensor for Electrochemical Quartz Crystal Microbalance. <i>Russian Journal of Electrochemistry</i> , 2021 , 57, 1157-1163	1.2	
164	Ion Exchange Recovery of Platinum(IV) from Hydrochloric Acid Solutions in the Presence of Silver(I). <i>Russian Journal of Physical Chemistry A</i> , 2020 , 94, 828-834	0.7	
163	Optical properties of the HoGa ₃ (BO ₃) ₄ crystal: experiment and ab initio calculation. <i>Ferroelectrics</i> , 2020 , 559, 135-140	0.6	1
162	Single particle Raman spectroscopy analysis of the metal-organic framework DUT-8(Ni) switching transition under hydrostatic pressure. <i>Chemical Communications</i> , 2020 , 56, 8269-8272	5.8	3
161	Anharmonicity and local noncentrosymmetric regions in BaTiO ₃ pressed powder studied by the Raman line temperature dependence. <i>Ceramics International</i> , 2020 , 46, 22619-22623	5.1	3
160	Structural phase transition in TbFe _{2.5} Ga _{0.5} (BO ₃) ₄ single crystal. <i>Ferroelectrics</i> , 2020 , 559, 128-134	0.6	2
159	Synthesis of Samarium Oxysulfate SmOSO in the High-Temperature Oxidation Reaction and Its Structural, Thermal and Luminescent Properties. <i>Molecules</i> , 2020 , 25,	4.8	15
158	Raman Spectra of Diphenylalanine Microtubes: Polarisation and Temperature Effects. <i>Crystals</i> , 2020 , 10, 224	2.3	4
157	Luminescence of monoclinic Y ₂ O ₃ :Eu nanophosphor produced via laser vaporization. <i>Optical Materials</i> , 2020 , 104, 109843	3.3	12
156	Soft modes in HoFe _{2.5} Ga _{0.5} (BO ₃) ₄ solid solution. <i>Ferroelectrics</i> , 2020 , 556, 16-22	0.6	
155	Gallium Composition-Dependent Structural Phase Transitions in HoFe _{3-x} Ga _x (BO ₃) ₄ Solid Solutions: Crystal Growth, Structure, and Raman Spectroscopy Study. <i>Crystal Growth and Design</i> , 2020 , 20, 1058-1069	3.5	5
154	Ferroelastic phase transition in the family of double fluoride crystals by Raman spectroscopy. <i>Ferroelectrics</i> , 2020 , 568, 185-190	0.6	1

153	Formation, evolution and characteristics of copper sulfide nanoparticles in the reactions of aqueous cupric and sulfide ions. <i>Materials Chemistry and Physics</i> , 2020 , 255, 123600	4.4	5
152	Lattice Dynamics and Baric Behavior of Phonons in the Hg ₂ Br ₂ Model Ferroelastics. <i>Physics of the Solid State</i> , 2019 , 61, 187-191	0.8	2
151	Crystal size versus paddle wheel deformability: selective gated adsorption transitions of the switchable metal-organic frameworks DUT-8(Co) and DUT-8(Ni). <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21459-21475	13	34
150	Manifestations of Structural Phase Transitions in a Rb ₂ KLuF ₆ Crystal in Its Raman Spectra. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2019 , 126, 341-345	0.7	
149	High-temperature oxidation of europium (II) sulfide. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 79, 62-70	6.3	11
148	Residual mechanical stresses in pressure treated BaTiO ₃ powder. <i>Ceramics International</i> , 2019 , 45, 12455-12460		
147	Phase transitions in Rb ₂ KLuF ₆ crystal. <i>Ferroelectrics</i> , 2019 , 538, 28-34	0.6	0
146	Synthesis, structure, and properties of EuErCuS ₃ . <i>Journal of Alloys and Compounds</i> , 2019 , 805, 779-788	5.7	7
145	Soft modes condensation in Raman spectra of (Pb _{1-x} La _x)(Zr _{1-x} Sn _x)O ₃ ceramics. <i>Journal of Advanced Dielectrics</i> , 2019 , 09, 1950024	1.3	
144	Colloidal and Immobilized Nanoparticles of Lead Xanthates. <i>ACS Omega</i> , 2019 , 4, 11472-11480	3.9	8
143	Features of Raman spectra in barium titanate pressed powder. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 699, 012058	0.4	1
142	Exploration of structural, vibrational and spectroscopic properties of self-activated orthorhombic double molybdate RbEu(MoO ₄) ₂ with isolated MoO ₄ units. <i>Journal of Alloys and Compounds</i> , 2019 , 785, 692-697	5.7	47
141	Understanding perceived color through gradual spectroscopic variations in electrochromism. <i>Indian Journal of Physics</i> , 2019 , 93, 927-933	1.4	11
140	Raman scattering and phase transitions in (NH ₄) ₃ TiF ₇ . <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 1230-1235		2
139	Generalisation of phonon confinement model for interpretation of Raman line-shape from nano-silicon. <i>Advances in Materials and Processing Technologies</i> , 2018 , 4, 227-233	0.8	3
138	Exploration of structural, thermal and spectroscopic properties of self-activated sulfate Eu ₂ (SO ₄) ₃ with isolated SO ₄ groups. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 68, 109-116	6.3	24
137	Temperature-dependent absorption lines observation in Raman spectra of SmFe ₃ (BO ₃) ₄ ferroborate. <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 1732-1735	2.3	7
136	Structural, electronic and vibrational properties of LaF ₃ according to density functional theory and Raman spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 255901	1.8	4

135	Structural and spectroscopic properties of new noncentrosymmetric self-activated borate Rb ₃ EuB ₆ O ₁₂ with B ₅ O ₁₀ units. <i>Materials and Design</i> , 2018 , 140, 488-494	8.1	111
134	Structural and Thermoelectric Properties of Optically Transparent Thin Films Based on Single-Walled Carbon Nanotubes. <i>Physics of the Solid State</i> , 2018 , 60, 2649-2655	0.8	5
133	Ion-Exchange Sorption of Palladium(II) from Hydrochloric Acid Solutions in the Presence of Silver(I). <i>Russian Journal of Physical Chemistry A</i> , 2018 , 92, 2053-2059	0.7	2
132	Non-Hydrostatic Pressure-Induced Phase Transitions in Self-Assembled Diphenylalanine Microtubes. <i>Technical Physics</i> , 2018 , 63, 1311-1315	0.5	2
131	Colloidal and Deposited Products of the Interaction of Tetrachloroauric Acid with Hydrogen Selenide and Hydrogen Sulfide in Aqueous Solutions. <i>Minerals (Basel, Switzerland)</i> , 2018 , 8, 492	2.4	6
130	Structure, Thermal Stability, and Spectroscopic Properties of Triclinic Double Sulfate AgEu(SO) with Isolated SO Groups. <i>Inorganic Chemistry</i> , 2018 , 57, 13279-13288	5.1	43
129	Effects of Pressure-Induced Phase Transition in Model Hg ₂ Br ₂ Ferroelastics. <i>Technical Physics Letters</i> , 2018 , 44, 757-760	0.7	2
128	Manifestation of magnetoelastic interactions in Raman spectra of Ho _x Nd _{1-x} Fe ₃ (BO ₃) ₄ crystals. <i>Journal of Advanced Dielectrics</i> , 2018 , 08, 1850011	1.3	14
127	Nature of phase transitions in ammonium oxofluorovanadates, a vibrational spectroscopy study of (NH) ₂ VOF and (NH) ₄ VOF. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017 , 176, 106-113	4.4	7
126	Raman study of structural transformations in self-assembled diphenylalanine nanotubes at elevated temperatures. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 1401-1405	2.3	27
125	Raman and infrared characterization of gadolinium-doped manganese sulfide. <i>Spectroscopy Letters</i> , 2017 , 50, 55-58	1.1	6
124	Raman study of HoFe ₃ (BO ₃) ₄ at simultaneously high pressure and high temperature: p-T phase diagram. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 1406-1410	2.3	13
123	In-situ Raman study of phengite compressed in water medium under simultaneously high P-T parameters. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 1431-1437	2.3	7
122	Uniaxial mechanical stresses and their influence on the parameters of the ferroelectric phase transition in pressure-treated barium titanate. <i>Ferroelectrics</i> , 2017 , 508, 161-166	0.6	7
121	Low-temperature features of Raman spectra below magnetic transitions in multiferroic Ho _{1-x} Nd _x Fe ₃ (BO ₃) ₄ and Sm _{1-x} La _x Fe ₃ (BO ₃) ₄ single crystals. <i>Ferroelectrics</i> , 2017 , 509, 92-96	0.6	9
120	Polarized Raman spectroscopy of delta-BiB ₃ O ₆ at 7B50K. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 1414-1419	2.3	2
119	Exploration of structural, thermal, vibrational and spectroscopic properties of new noncentrosymmetric double borate Rb ₃ NdB ₆ O ₁₂ . <i>Advanced Powder Technology</i> , 2017 , 28, 1309-1315	4.6	53
118	Si/Fe flux ratio influence on growth and physical properties of polycrystalline FeSi ₂ thin films on Si(100) surface. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 440, 144-152	2.8	15

117	Structural and spectroscopic properties of self-activated monoclinic molybdate BaSm ₂ (MoO ₄) ₄ . <i>Journal of Alloys and Compounds</i> , 2017 , 729, 843-849	5.7	47
116	Raman scattering and phase transitions in fluorides with elpasolite structure. <i>Ferroelectrics</i> , 2017 , 512, 58-64	0.6	3
115	Ion-exchange sorption of silver(I) chloride complexes from aqueous HCl solutions. <i>Russian Journal of Physical Chemistry A</i> , 2017 , 91, 2383-2388	0.7	3
114	Raman spectroscopy studies of the terahertz vibrational modes of a DUT-8 (Ni) metal-organic framework. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 32099-32104	3.6	35
113	In situ Raman spectroscopic study of interaction between phengite and water under P-T conditions typical of subduction zones. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2017 , 81, 590-593	0.4	2
112	The Raman Spectroscopy, XRD, SEM, and AFM Study of Arabinogalactan Sulfates Obtained Using Sulfamic Acid. <i>Russian Journal of Bioorganic Chemistry</i> , 2017 , 43, 722-726	1	7
111	Crystal structure and phase transitions of a layered perovskite-like CsScF ₄ crystal. <i>CrystEngComm</i> , 2016 , 18, 8472-8486	3.3	9
110	Crystal Growth and Raman Spectroscopy Study of Sm _{1-x} LaxFe ₃ (BO ₃) ₄ Ferroborates. <i>Crystal Growth and Design</i> , 2016 , 16, 6915-6921	3.5	14
109	Vibrational spectra of NdF ₃ crystal. <i>Ferroelectrics</i> , 2016 , 501, 15-19	0.6	4
108	Raman scattering study of BiB ₃ O ₆ crystal. <i>Ferroelectrics</i> , 2016 , 501, 26-31	0.6	5
107	Lattice dynamics and baric behavior of phonons in Hg ₂ Cl ₂ crystals at high hydrostatic pressures. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2016 , 80, 1033-1037	0.4	4
106	Soft mode mechanism of the transition into the low-temperature ferroelastic phase in K ₃ Na(CrO ₄) ₂ crystals. <i>Physics of the Solid State</i> , 2016 , 58, 2511-2515	0.8	1
105	Raman light scattering in sodium nitrite crystals. <i>Bulletin of the Lebedev Physics Institute</i> , 2016 , 43, 167-173	0.3	2
104	Raman spectra and phase composition of MnGeO ₃ crystals. <i>Journal of Raman Spectroscopy</i> , 2016 , 47, 531-536	2.3	13
103	In situ Raman study of wairakite and dawsonite interaction with water at high P-T parameters. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2016 , 80, 522-524	0.4	2
102	Raman scattering in sodium nitrite crystals near the phase transition. <i>Physics of the Solid State</i> , 2016 , 58, 170-176	0.8	18
101	Heat capacity and magnetic properties of fluoride CsFe ₂ +Fe ₃ +F ₆ with defect pyrochlore structure. <i>Journal of Solid State Chemistry</i> , 2016 , 237, 330-335	3.3	6
100	In situ spectroscopic study of water intercalation into talc: New features of 10 Å phase formation. <i>American Mineralogist</i> , 2016 , 101, 431-436	2.9	10

99	Raman scattering in dried DNA and crystalline amino acids. <i>Physics of Wave Phenomena</i> , 2016 , 24, 272-278	2	
98	Anisotropic crystal of the BiB_3O_6 investigated by vibrational spectroscopy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 155, 012029	0.4	1
97	Phase transitions in $(\text{NH}_4)_2\text{MoO}_2\text{F}_4$ crystal. <i>Journal of Molecular Structure</i> , 2016 , 1124, 125-130	3.4	2
96	Raman scattering in a ferroelectric sodium nitrite crystal. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2016 , 80, 1127-1130	0.4	1
95	Behavior of $\text{CaBSiO}_4(\text{OH})$ datolite at high temperatures and pressures of a water medium. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2015 , 79, 794-797	0.4	3
94	Heat-induced transformations in coronene-single-walled carbon nanotube systems. <i>Journal of Nanophotonics</i> , 2015 , 10, 012504	1.1	0
93	Synthesis, structural and spectroscopic properties of acentric triple molybdate $\text{Cs}_2\text{NaBi}(\text{MoO}_4)_3$. <i>Journal of Solid State Chemistry</i> , 2015 , 225, 53-58	3.3	44
92	Electronic structure of $\text{RbSm}(\text{MoO}_4)_3$ and chemical bonding in molybdates. <i>Dalton Transactions</i> , 2015 , 44, 1805-15	4.3	71
91	Raman spectroscopy study of the behavior of the soft mode in a structural phase transition in the $\text{Pr}_3\text{Sb}_5\text{O}_{12}$ crystal. <i>Physics of the Solid State</i> , 2015 , 57, 2286-2289	0.8	1
90	Raman study of datolite $\text{CaBSiO}_4(\text{OH})$ at simultaneously high pressure and high temperature. <i>Journal of Raman Spectroscopy</i> , 2015 , 46, 177-181	2.3	16
89	Ion-exchange extraction of platinum(II,IV) from chloride solutions in the presence of iron(III). <i>Russian Journal of Physical Chemistry A</i> , 2015 , 89, 1464-1470	0.7	2
88	Influence of the Molecular Groups Ordering on Structural Phase Transitions in $(\text{NH}_4)_2\text{WO}_2\text{F}_4$ Crystal. <i>Crystal Growth and Design</i> , 2014 , 14, 374-380	3.5	8
87	Measurement of Raman-Scattering Spectra of $\text{Rb}_2\text{KMoO}_3\text{F}_3$ Crystal: Evidence for Controllable Disorder in the Lattice Structure. <i>Crystal Growth and Design</i> , 2014 , 14, 923-927	3.5	15
86	Spectroscopic properties of $\text{ErAl}_3(\text{BO}_3)_4$ single crystal. <i>Chemical Physics</i> , 2014 , 428, 137-143	2.3	22
85	Experimental and theoretical methods to study structural phase transition mechanisms in $\text{K}_3\text{WO}_3\text{F}_3$ oxyfluoride. <i>Journal of Solid State Chemistry</i> , 2014 , 218, 32-37	3.3	8
84	Synthesis and Spectroscopic Properties of Monoclinic $\text{Eu}_2(\text{MoO}_4)_3$. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15404-15411	3.8	180
83	Spectroscopic properties of $\text{HoAl}_3(\text{BO}_3)_4$ single crystal. <i>Optical Materials</i> , 2014 , 37, 257-261	3.3	18
82	Synthesis and spectroscopic properties of multiferroic $\text{Tb}_2(\text{MoO}_4)_3$. <i>Optical Materials</i> , 2014 , 36, 1631-1635	3.5	70

81	Structural, spectroscopic, and thermophysical investigations of the oxyfluorides CsZnMoO ₃ F ₃ and CsMnMoO ₃ F ₃ with the pyrochlore structure. <i>Physics of the Solid State</i> , 2014 , 56, 599-605	0.8	1
80	Local Raman spectroscopy of DNA. <i>Bulletin of the Lebedev Physics Institute</i> , 2014 , 41, 310-315	0.5	9
79	Behavior of natrolite zeolite and fluorapatite at high pressures in a water medium. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2013 , 77, 313-316	0.4	6
78	Magnetoelastic interactions in Raman spectra of Ho _{1-x} NdxFe ₃ (BO ₃) ₄ crystals. <i>Solid State Communications</i> , 2013 , 174, 26-29	1.6	18
77	Vibrational spectra and elastic, piezoelectric, and magnetoelectric properties of HoFe ₃ (BO ₃) ₄ and HoAl ₃ (BO ₃) ₄ crystals. <i>Journal of Experimental and Theoretical Physics</i> , 2013 , 117, 1032-1041	1	28
76	Structural transformations in a single-crystal Rb ₂ NaYF ₆ : Raman scattering study. <i>Journal of Raman Spectroscopy</i> , 2013 , 44, 763-769	2.3	25
75	Luminescence spectra of Ho ³⁺ in distorted parity-breaking HoF ₆ octahedra. <i>Journal of Luminescence</i> , 2012 , 132, 690-692	3.8	8
74	Ion exchange equilibria in simultaneous extraction of platinum(II, IV) and rhodium(III) from hydrochloric solutions. <i>Russian Journal of Physical Chemistry A</i> , 2012 , 86, 1018-1024	0.7	5
73	A raman study of hydrostatic pressure induced phase transitions in Rb ₂ KInF ₆ crystals. <i>Physics of the Solid State</i> , 2012 , 54, 934-936	0.8	7
72	Raman spectroscopic study of the lattice dynamics in the Rb ₂ KMoO ₃ F ₃ oxyfluoride. <i>Physics of the Solid State</i> , 2012 , 54, 1275-1280	0.8	10
71	Raman scattering study of temperature induced phase transitions in crystalline ammonium heptafluorozirconate, (NH ₄) ₃ ZrF ₇ . <i>Vibrational Spectroscopy</i> , 2012 , 62, 258-263	2.1	6
70	Spectroscopic properties of Nd _{0.5} Gd _{0.5} Fe ₃ (BO ₃) ₄ single crystal. <i>Journal of Alloys and Compounds</i> , 2012 , 529, 38-43	5.7	10
69	Raman investigation of fibrous zeolites of the natrolite group at high pressures of an aqueous medium. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2012 , 76, 804-807	0.4	7
68	Vibrational spectra and elastic piezoelectric and polarization properties of the Rb ₄ B ₄ O ₇ crystal. <i>Journal of Experimental and Theoretical Physics</i> , 2012 , 115, 455-461	1	6
67	Lattice Dynamics of Oxyfluoride Rb ₂ KMoO ₃ F ₃ . <i>Ferroelectrics</i> , 2012 , 441, 52-60	0.6	
66	Hydrostatic Pressure-Induced Phase Transitions in Rb ₂ KInF ₆ and Rb ₂ KScF ₆ Crystals: Raman Spectra and Lattice Dynamics Simulations. <i>Ferroelectrics</i> , 2012 , 440, 100-104	0.6	9
65	Raman investigation of hydrostatic and nonhydrostatic compressions of OH- and F-apophyllites up to 8 GPa. <i>Journal of Raman Spectroscopy</i> , 2012 , 43, 439-447	2.3	18
64	Raman spectroscopy of natural cordierite at high water pressure up to 5 GPa. <i>Journal of Raman Spectroscopy</i> , 2012 , 43, 559-563	2.3	17

63	Raman scattering study of temperature and hydrostatic pressure phase transitions in Rb ₂ KTiOF ₅ crystal. <i>Journal of Raman Spectroscopy</i> , 2012 , 43, 577-582	2.3	11
62	Raman Scattering Study of Temperature Phase Transitions in (NH ₄) ₃ MoO ₃ F ₃ . <i>Ferroelectrics</i> , 2012 , 430, 65-70	0.6	3
61	Experimental study of the structure of milled diamond-containing particles obtained by the detonation method. <i>EPJ Applied Physics</i> , 2012 , 57, 30701	1.1	
60	Raman Scattering Study Temperature Phase Transitions of Rb ₂ KInF ₆ Crystal. <i>Ferroelectrics</i> , 2011 , 416, 95-100	0.6	4
59	Raman spectra and phase transitions in Rb ₂ KInF ₆ elpasolite. <i>Crystallography Reports</i> , 2011 , 56, 18-23	0.6	8
58	Structure and lattice dynamics of the high-pressure phase in the ScF ₃ crystal. <i>Physics of the Solid State</i> , 2011 , 53, 564-569	0.8	14
57	Simultaneous ion exchange recovery of platinum and rhodium from chloride solutions. <i>Hydrometallurgy</i> , 2011 , 105, 341-349	4	42
56	Structural heterogeneity of diamond-containing detonation material. <i>EPJ Applied Physics</i> , 2010 , 52, 109011	1	
55	Influence of Acoustic and Magnetic Fields on the Formation of Fullerenes and Nanotubes in Carbon-Helium High-Frequency Plasma Under Atmospheric Pressure. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2010 , 18, 584-589	1.8	4
54	Vibrational Spectroscopy Studies of Temperature Phase Transitions in K ₃ WO ₃ F ₃ . <i>Ferroelectrics</i> , 2010 , 401, 168-172	0.6	6
53	Upconversion luminescence of YAl ₃ (BO ₃) ₄ :(Yb ³⁺ , Tm ³⁺) crystals. <i>Journal of Alloys and Compounds</i> , 2010 , 496, L18-L21	5.7	27
52	Resonant raman scattering and dispersion of polar optical and acoustic phonons in hexagonal inn. <i>Semiconductors</i> , 2010 , 44, 161-170	0.7	4
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44	Nickel-containing carbon nanotubes and nanoparticles prepared in a high-frequency arc plasma. <i>Physics of the Solid State</i> , 2009 , 51, 1972-1975	0.8	3
43	Spectroscopic properties and energy levels of Yb^{3+} ion in huntite structure. <i>Journal of Alloys and Compounds</i> , 2009 , 476, 64-69	5.7	13
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39	A raman scattering study of the phase transition in the ammonium oxyfluoride $(\text{NH}_4)_3\text{TiOF}_5$. <i>Physics of the Solid State</i> , 2008 , 50, 1534-1537	0.8	2
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35	Raman Spectra and Ordering Processes in Alkaline-Tungsten Oxyfluorides. <i>Ferroelectrics</i> , 2007 , 347, 79-85	1.6	4
34	Luminescence of yttrium aluminum borate single crystals doped with manganese. <i>Physics of the Solid State</i> , 2007 , 49, 1695-1699	0.8	32
33	Molecular structural nonuniformity of ultradispersed diamond-containing material and the reasons why it arises. <i>Russian Journal of Physical Chemistry B</i> , 2007 , 2, 485-492	1.2	3
32	Raman scattering study of ordering processes and phase transitions in $\text{A}_2\text{BWO}_3\text{F}_3$ oxyfluorides crystals. <i>Journal of Physics: Conference Series</i> , 2007 , 92, 012158	0.3	
31	Vibrational spectra of $\text{K Pb}_2\text{Cl}_5$ and $\text{K Pb}_2\text{Br}_5$ crystals. <i>Computational Materials Science</i> , 2006 , 36, 212-216	3.2	2
30	Symmetry analysis of calculated vibrational spectra of Rb_2KScF_6 crystal. <i>Computational Materials Science</i> , 2006 , 36, 221-224	3.2	5
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28	A study of phase transition in $(\text{NH}_4)_3\text{WO}_3\text{F}_3$ oxyfluoride by Raman scattering. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 435-441	1.3	

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26	Raman spectroscopic study of the phase transitions in the (NH ₄) ₃ WO ₃ F ₃ oxyfluoride. <i>Physics of the Solid State</i> , 2006 , 48, 1067-1069	0.8	1
25	Raman spectroscopic study of the phase transitions induced by hydrostatic pressure in a Rb ₂ KScF ₆ crystal. <i>Physics of the Solid State</i> , 2006 , 48, 1070-1072	0.8	3
24	A Raman scattering study of the phase transition in the (NH ₄) ₃ WO ₃ F ₃ oxyfluoride. <i>Physics of the Solid State</i> , 2006 , 48, 1356-1362	0.8	9
23	Vibrational spectrum and elastic properties of KPb ₂ Cl ₅ crystals. <i>Physics of the Solid State</i> , 2005 , 47, 531	0.8	3
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21	Europium doped strontium borate glasses and their optical properties. <i>Journal of Physics and Chemistry of Solids</i> , 2005 , 66, 75-79	3.9	20
20	Hydrostatic pressure-induced phase transitions in RbMnCl ₃ : Raman spectra and lattice dynamics. <i>Physics of the Solid State</i> , 2004 , 46, 1301-1310	0.8	7
19	Lattice dynamics and Raman scattering spectrum of elpasolite Rb ₂ KScF ₆ : Comparative analysis. <i>Physics of the Solid State</i> , 2004 , 46, 1311-1319	0.8	14
18	Raman spectra and pressure-induced lattice instabilities in RbMnCl ₃ crystal. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004 , 1, 3097-3100		2
17	Raman spectra and elastic properties of KPb ₂ Cl ₅ crystals. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004 , 1, 3142-3145		8
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15	Raman Spectra and Phase Transitions in the Rb ₂ KScF ₆ Elpasolite. <i>Ferroelectrics</i> , 2003 , 284, 47-64	0.6	9
14	Pressure-Induced Phase Transitions in ScF ₃ Crystal--Raman Spectra and Lattice Dynamics. <i>Ferroelectrics</i> , 2003 , 284, 31-45	0.6	8
13	Lattice dynamics and hydrostatic-pressure-induced phase transitions in ScF ₃ . <i>Journal of Experimental and Theoretical Physics</i> , 2002 , 94, 977-984	1	25
12	Optical Spectra of Gd ₃ Ga ₅ O ₁₂ :Mn Crystals. <i>Inorganic Materials</i> , 2002 , 38, 1032-1034	0.9	9
11	Soft-mode condensation in Raman spectra of the Rb ₂ KScF ₆ elpasolite. <i>Physics of the Solid State</i> , 2001 , 43, 2154-2157	0.8	3
10	The cubic-to-monoclinic phase transition in (NH ₄) ₃ ScF ₆ cryolite: A Raman scattering study. <i>Physics of the Solid State</i> , 2001 , 43, 2307-2310	0.8	12

9	Raman scattering study of the upper phase transition in CsScF ₄ . <i>Journal of Raman Spectroscopy</i> , 2000 , 31, 151-155	2.3	2
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