Aleksandr Oreshonkov

List of Publications by Year
in descending order

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66 papers	1,857 citations	331670 21 h-index	265206 42 g-index
68 all docs	68 docs citations	68 times ranked	1250 citing authors

#	Article	IF	Citations
1	Microâ€Raman study of cesanite (Ca₂Na₃ (OH)(SO₄)₃) in chloride segregations from Udachnayaâ€East kimberlites. Journal of Raman Spectroscopy, 2022, 53, 497-507.	2.5	5
2	Quaternary Selenides EuLnCuSe3: Synthesis, Structures, Properties and In Silico Studies. International Journal of Molecular Sciences, 2022, 23, 1503.	4.1	14
3	New double nonlinear-optical borate Rb3SmB6O12: Synthesis, structure and spectroscopic properties. Journal of Alloys and Compounds, 2022, 905, 164022.	5.5	14
4	Europium (II) Sulfate EuSO₄: Synthesis Methods, Crystal and Electronic Structure, Luminescence Properties. European Journal of Inorganic Chemistry, 2022, 2022, .	2.0	5
5	SI: Advances in Density Functional Theory (DFT) Studies of Solids. Materials, 2022, 15, 2099.	2.9	5
6	Raman Spectroscopy of Janus MoSSe Monolayer Polymorph Modifications Using Density Functional Theory. Materials, 2022, 15, 3988.	2.9	6
7	Exploration of the Crystal Structure and Thermal and Spectroscopic Properties of Monoclinic Praseodymium Sulfate Pr2(SO4)3. Molecules, 2022, 27, 3966.	3.8	14
8	Experimental and DFT study of BaLaCuS3: Direct band gap semiconductor. Journal of Physics and Chemistry of Solids, 2021, 148, 109670.	4.0	12
9	Synthesis and luminescent properties of (RE0.95Ln0.05)2O2S (RE = La, Y; Ln = Ho, Tm). Journal of Solid State Chemistry, 2021, 293, 121753.	2.9	2
10	Crystal and electronic structure, thermochemical and photophysical properties of europium-silver sulfate monohydrate AgEu(SO4)2Â·H2O. Journal of Solid State Chemistry, 2021, 294, 121898.	2.9	10
11	Negative thermal expansion in one-dimension of a new double sulfate AgHo(SO4)2 with isolated SO4 tetrahedra. Journal of Materials Science and Technology, 2021, 76, 111-121.	10.7	34
12	Structural Features of Y2O2SO4 via DFT Calculations of Electronic and Vibrational Properties. Materials, 2021, 14, 3246.	2.9	4
13	Synthesis, structure, melting and optical properties of three complex orthorhombic sulfides BaDyCuS3, BaHoCuS3 and BaYbCuS3. Materials Research Bulletin, 2021, 140, 111314.	5.2	11
14	Evolution of Structural, Thermal, Optical, and Vibrational Properties of Sc₂S₃, ScCuS₂, and BaScCuS₃ Semiconductors. European Journal of Inorganic Chemistry, 2021, 2021, 3355-3366.	2.0	2
15	Crystal Structure, Vibrational, Spectroscopic and Thermochemical Properties of Double Sulfate Crystalline Hydrate [CsEu(H2O)3(SO4)2]Â·H2O and Its Thermal Dehydration Product CsEu(SO4)2. Crystals, 2021, 11, 1027.	2.2	43
16	Exploration of the structural, spectroscopic and thermal properties of double sulfate monohydrate NaSm(SO4)2Â·H2O and its thermal decomposition product NaSm(SO4)2. Advanced Powder Technology, 2021, 32, 3943-3953.	4.1	11
17	Structural and Spectroscopic Effects of Li+ Substitution for Na+ in LixNa1-xCaGd0.5Ho0.05Yb0.45(MoO4)3 Scheelite-Type Upconversion Phosphors. Molecules, 2021, 26, 7357.	3.8	22
18	New candidate to reach Shockleyâ€“Queisser limit: The DFT study of orthorhombic silicon allotrope Si(oP32). Journal of Physics and Chemistry of Solids, 2020, 137, 109219.	4.0	15

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19	Microwave sol-gel synthesis, microstructural and spectroscopic properties of scheelite-type ternary molybdate upconversion phosphor NaPbLa(MoO4)3:Er3+/Yb3+. Journal of Alloys and Compounds, 2020, 826, 152095.	5.5	29
20	Synthesis, structural and spectroscopic properties of orthorhombic compounds BaLnCuS3 (LnÂ= Pr,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	5.5	26
21	Application of Raman spectroscopy for identification of rinneite (K 3 NaFeCl 6) in inclusions in minerals. Journal of Raman Spectroscopy, 2020, 51, 2505-2516.	2.5	4
22	Microwave-Employed Solâ€“Gel Synthesis of Scheelite-Type Microcrystalline AgGd(MoO4)2:Yb3+/Ho3+ Upconversion Yellow Phosphors and Their Spectroscopic Properties. Crystals, 2020, 10, 1000.	2.2	25
23	Monoclinic SmAl₃(BO₃)₄: synthesis, structural and spectroscopic properties. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 654-660.	1.1	5
24	Exploration of the Structural and Vibrational Properties of the Ternary Molybdate Tl₅BiHf(MoO₄)₆ with Isolated MoO₄ Units and Tl⁺ Conductivity. Inorganic Chemistry, 2020, 59, 12681-12689.	4.0	8
25	Raman study of 3.65â€…Ã…-phase MgSi(OH)₆under high pressure and the bands assignment. High Pressure Research, 2020, 40, 495-510.	1.2	4
26	Synthesis of Samarium OxysulfateSm2O2SO4 in the High-Temperature Oxidation Reaction and Its Structural, Thermal and Luminescent Properties. Molecules, 2020, 25, 1330.	3.8	19
27	Structural, Electronic and Vibrational Properties of YAl3(BO3)4. Materials, 2020, 13, 545.	2.9	17
28	High-temperature oxidation of europium (II) sulfide. Journal of Industrial and Engineering Chemistry, 2019, 79, 62-70.	5.8	17
29	Exploration of structural, vibrational and spectroscopic properties of self-activated orthorhombic double molybdate RbEu(MoO4)2 with isolated MoO4 units. Journal of Alloys and Compounds, 2019, 785, 692-697.	5.5	64
30	Fabrication of Microcrystalline NaPbLa(WO4)3:Yb3+/Ho3+ Phosphors and Their Upconversion Photoluminescent Characteristics. Korean Journal of Materials Research, 2019, 29, 741-746.	0.2	14
31	Raman scattering and phase transitions in <scp>(NH₄)₃TiF₇</scp>. Journal of Raman Spectroscopy, 2018, 49, 1230-1235.	2.5	3
32	Structural and spectroscopic properties of new noncentrosymmetric self-activated borate Rb3EuB6O12 with B5O10 units. Materials and Design, 2018, 140, 488-494.	7.0	153
33	Structure, Thermal Stability, and Spectroscopic Properties of Triclinic Double Sulfate AgEu(SO₄)₂ with Isolated SO₄ Groups. Inorganic Chemistry, 2018, 57, 13279-13288.	4.0	68
34	Exploration of structural, thermal and spectroscopic properties of self-activated sulfate Eu2(SO4)3 with isolated SO4 groups. Journal of Industrial and Engineering Chemistry, 2018, 68, 109-116.	5.8	37
35	Identification of anhydrous CaCl2 and KCaCl3 in natural inclusions by Raman spectroscopy. Chemical Geology, 2018, 493, 532-543.	3.3	9
36	Structural, electronic and vibrational properties of LaF₃ according to density functional theory and Raman spectroscopy. Journal of Physics Condensed Matter, 2018, 30, 255901.	1.8	5

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37	Nature of phase transitions in ammonium oxofluorovanadates, a vibrational spectroscopy study of (NH4)3VO2F4 and (NH4)3VOF5. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 176, 106-113.	3.9	7
38	Raman and infrared characterization of gadolinium-doped manganese sulfide. Spectroscopy Letters, 2017, 50, 55-58.	1.0	7
39	Microwave synthesis and spectroscopic properties of ternary scheelite-type molybdate phosphors NaSrLa(MoO4)3:Er3+,Yb3+. Journal of Alloys and Compounds, 2017, 713, 156-163.	5.5	95
40	Polarized Raman spectroscopy of deltaâ€BiB₃O₆ at 7â€“350ÂK. Journal of Raman Spectroscopy, 2017, 48, 1414-1419.	2.5	2
41	Exploration of structural, thermal, vibrational and spectroscopic properties of new noncentrosymmetric double borate Rb3NdB6O12. Advanced Powder Technology, 2017, 28, 1309-1315.	4.1	84
42	Structural and spectroscopic properties of self-activated monoclinic molybdate BaSm2(MoO4)4. Journal of Alloys and Compounds, 2017, 729, 843-849.	5.5	55
43	Incommensurately modulated structure and spectroscopic properties of CaGd2(MoO4)4:Ho3+/Yb3+ phosphors for up-conversion applications. Journal of Alloys and Compounds, 2017, 695, 737-746.	5.5	52
44	Anisotropic crystal of the Î´-BiB3O6investigated by vibrational spectroscopy. IOP Conference Series: Materials Science and Engineering, 2016, 155, 012029.	0.6	1
45	Triple molybdate scheelite-type upconversion phosphor NaCaLa(MoO₄)₃:Er³⁺/Yb³⁺: structural and spectroscopic properties. Dalton Transactions, 2016, 45, 15541-15551.	3.3	79
46	Crystal structure and phase transitions of a layered perovskite-like CsScF4crystal. CrystEngComm, 2016, 18, 8472-8486.	2.6	9
47	Vibrational spectra of NdF₃crystal. Ferroelectrics, 2016, 501, 15-19.	0.6	4
48	Raman scattering study of Î´-BiB₃O₆crystal. Ferroelectrics, 2016, 501, 26-31.	0.6	5
49	Raman spectra and phase composition of MnGeO₃ crystals. Journal of Raman Spectroscopy, 2016, 47, 531-536.	2.5	14
50	Infrared absorption spectra of a Nd0.5Ho0.5Fe3(BO3)4 crystal. Physics of the Solid State, 2016, 58, 155-159.	0.6	9
51	Raman spectroscopy study of the behavior of the soft mode in a structural phase transition in the Pr3Sb5O12 crystal. Physics of the Solid State, 2015, 57, 2286-2289.	0.6	1
52	Microwave Solâ€“Gel Synthesis of CaGd₂(MoO₄)₄:Er³⁺/Yb³⁺ Phosphors and Their Upconversion Photoluminescence Properties. Journal of the American Ceramic Society, 2015, 98, 3223-3230.	3.8	48
53	Raman Spectra and Structural Phase Transition in Pr3Sb5O12Crystal. Ferroelectrics, 2015, 486, 86-90.	0.6	0
54	The modulated structure and frequency upconversion properties of CaLa₂(MoO₄)₄:Ho³⁺/Yb³⁺phosphors prepared by microwave synthesis. Physical Chemistry Chemical Physics, 2015, 17, 19278-19287.	2.8	102

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55	Microwave solâ€“gel synthesis and upconversion photoluminescence properties of CaGd2(WO4)4:Er3+/Yb3+ phosphors with incommensurately modulated structure. Journal of Solid State Chemistry, 2015, 228, 160-166.	2.9	154
56	Synthesis, structural and spectroscopic properties of acentric triple molybdate Cs2NaBi(MoO4)3. Journal of Solid State Chemistry, 2015, 225, 53-58.	2.9	46
57	Crystal and local structure refinement in Ca₂Al₃O₆F explored by X-ray diffraction and Raman spectroscopy. Physical Chemistry Chemical Physics, 2014, 16, 5952-5957.	2.8	41
58	Synthesis and Spectroscopic Properties of Monoclinic Î±-Eu₂(MoO₄)₃. Journal of Physical Chemistry C, 2014, 118, 15404-15411.	3.1	218
59	Structural, spectroscopic, and thermophysical investigations of the oxyfluorides CsZnMoO3F3 and CsMnMoO3F3 with the pyrochlore structure. Physics of the Solid State, 2014, 56, 599-605.	0.6	2
60	Infrared absorption investigation of the role of octahedral groups upon the phase transition in the Rb2KMoO3F3 crystal. Physics of the Solid State, 2013, 55, 2331-2334.	0.6	12
61	Structural transformations in a singleâ€crystal Rb₂NaYF₆: Raman scattering study. Journal of Raman Spectroscopy, 2013, 44, 763-769.	2.5	27
62	Hydrostatic Pressure-Induced Phase Transitions in Rb2KInF6and Rb2KScF6Crystals: Raman Spectra and Lattice Dynamics Simulations. Ferroelectrics, 2012, 440, 100-104.	0.6	9
63	A raman study of hydrostatic pressure induced phase transitions in Rb2KInF6 crystals. Physics of the Solid State, 2012, 54, 934-936.	0.6	7
64	Raman Scattering Study Temperature Phase Transitions of Rb2KInF6Crystal. Ferroelectrics, 2011, 416, 95-100.	0.6	5
65	Raman spectra and phase transitions in Rb2KInF6 elpasolite. Crystallography Reports, 2011, 56, 18-23.	0.6	9
66	Structure and lattice dynamics of the high-pressure phase in the ScF3 crystal. Physics of the Solid State, 2011, 53, 564-569.	0.6	17