

# 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	Synthesis and Spectroscopic Properties of Monoclinic $\text{La-Eu}_2(\text{MoO}_4)_3$ . Journal of Physical Chemistry C, 2014, 118, 15404-15411.	3.1	218
2	Microwave sol-gel synthesis and upconversion photoluminescence properties of $\text{CaGd}_2(\text{WO}_4)_4:\text{Er}^{3+}/\text{Yb}^{3+}$ phosphors with incommensurately modulated structure. Journal of Solid State Chemistry, 2015, 228, 160-166.	2.9	154
3	Structural and spectroscopic properties of new noncentrosymmetric self-activated borate $\text{Rb}_3\text{EuB}_6\text{O}_{12}$ with $\text{B}_5\text{O}_{10}$ units. Materials and Design, 2018, 140, 488-494.	7.0	153
4	The modulated structure and frequency upconversion properties of $\text{CaLa}_2(\text{MoO}_4)_4:\text{Ho}^{3+}/\text{Yb}^{3+}$ phosphors prepared by microwave synthesis. Physical Chemistry Chemical Physics, 2015, 17, 19278-19287.	2.8	102
5	Microwave synthesis and spectroscopic properties of ternary scheelite-type molybdate phosphors $\text{NaSrLa}(\text{MoO}_4)_3:\text{Er}^{3+}, \text{Yb}^{3+}$ . Journal of Alloys and Compounds, 2017, 713, 156-163.	5.5	95
6	Exploration of structural, thermal, vibrational and spectroscopic properties of new noncentrosymmetric double borate $\text{Rb}_3\text{NdB}_6\text{O}_{12}$ . Advanced Powder Technology, 2017, 28, 1309-1315.	4.1	84
7	Triple molybdate scheelite-type upconversion phosphor $\text{NaCaLa}(\text{MoO}_4)_3:\text{Er}^{3+}/\text{Yb}^{3+}$ : structural and spectroscopic properties. Dalton Transactions, 2016, 45, 15541-15551.	3.3	79
8	Structure, Thermal Stability, and Spectroscopic Properties of Triclinic Double Sulfate $\text{AgEu}(\text{SO}_4)_2$ with Isolated $\text{SO}_4$ Groups. Inorganic Chemistry, 2018, 57, 13279-13288.	4.0	68
9	Exploration of structural, vibrational and spectroscopic properties of self-activated orthorhombic double molybdate $\text{RbEu}(\text{MoO}_4)_2$ with isolated $\text{MoO}_4$ units. Journal of Alloys and Compounds, 2019, 785, 692-697.	5.5	64
10	Structural and spectroscopic properties of self-activated monoclinic molybdate $\text{BaSm}_2(\text{MoO}_4)_4$ . Journal of Alloys and Compounds, 2017, 729, 843-849.	5.5	55
11	Incommensurately modulated structure and spectroscopic properties of $\text{CaGd}_2(\text{MoO}_4)_4:\text{Ho}^{3+}/\text{Yb}^{3+}$ phosphors for up-conversion applications. Journal of Alloys and Compounds, 2017, 695, 737-746.	5.5	52
12	Microwave Sol-gel Synthesis of $\text{CaGd}_2(\text{MoO}_4)_4:\text{Er}^{3+}/\text{Yb}^{3+}$ Phosphors and Their Upconversion Photoluminescence Properties. Journal of the American Ceramic Society, 2015, 98, 3223-3230.	3.8	48
13	Synthesis, structural and spectroscopic properties of acentric triple molybdate $\text{Cs}_2\text{NaBi}(\text{MoO}_4)_3$ . Journal of Solid State Chemistry, 2015, 225, 53-58.	2.9	46
14	Crystal Structure, Vibrational, Spectroscopic and Thermochemical Properties of Double Sulfate Crystalline Hydrate $[\text{CsEu}(\text{H}_2\text{O})_3(\text{SO}_4)_2]\cdot\text{H}_2\text{O}$ and Its Thermal Dehydration Product $\text{CsEu}(\text{SO}_4)_2$ . Crystals, 2021, 11, 1027.	2.2	43
15	Crystal and local structure refinement in $\text{CaAl}_3\text{O}_6\text{F}$ explored by X-ray diffraction and Raman spectroscopy. Physical Chemistry Chemical Physics, 2014, 16, 5952-5957.	2.8	41
16	Exploration of structural, thermal and spectroscopic properties of self-activated sulfate $\text{Eu}_2(\text{SO}_4)_3$ with isolated $\text{SO}_4$ groups. Journal of Industrial and Engineering Chemistry, 2018, 68, 109-116.	5.8	37
17	Negative thermal expansion in one-dimension of a new double sulfate $\text{AgHo}(\text{SO}_4)_2$ with isolated $\text{SO}_4$ tetrahedra. Journal of Materials Science and Technology, 2021, 76, 111-121.	10.7	34
18	Microwave sol-gel synthesis, microstructural and spectroscopic properties of scheelite-type ternary molybdate upconversion phosphor $\text{NaPbLa}(\text{MoO}_4)_3:\text{Er}^{3+}/\text{Yb}^{3+}$ . Journal of Alloys and Compounds, 2020, 826, 152095.	5.5	29

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19	Structural transformations in a single-crystal $\text{Rb}_2\text{NaYF}_6$ : Raman scattering study. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 763-769.	2.5	27
20	Synthesis, structural and spectroscopic properties of orthorhombic compounds $\text{BaLnCuS}_3$ (Ln = Pr, Tm, Er, Yb, Ho, Dy, Tb, Gd, Sm, Eu, Ce, La). <i>Journal of Solid State Chemistry</i> , 2019, 355, 1020-1026.	3.5	26
21	Microwave-Employed Sol-Gel Synthesis of Scheelite-Type Microcrystalline $\text{AgGd}(\text{MoO}_4)_2\text{Yb}^{3+}/\text{Ho}^{3+}$ Upconversion Yellow Phosphors and Their Spectroscopic Properties. <i>Crystals</i> , 2020, 10, 1000.	2.2	25
22	Structural and Spectroscopic Effects of $\text{Li}^+$ Substitution for $\text{Na}^+$ in $\text{Li}_x\text{Na}_{1-x}\text{CaGd}_{0.5}\text{Ho}_{0.05}\text{Yb}_{0.45}(\text{MoO}_4)_3$ Scheelite-Type Upconversion Phosphors. <i>Molecules</i> , 2021, 26, 7357.	3.8	22
23	Synthesis of Samarium Oxysulfate $\text{Sm}_2\text{O}_2\text{SO}_4$ in the High-Temperature Oxidation Reaction and Its Structural, Thermal and Luminescent Properties. <i>Molecules</i> , 2020, 25, 1330.	3.8	19
24	Structure and lattice dynamics of the high-pressure phase in the $\text{ScF}_3$ crystal. <i>Physics of the Solid State</i> , 2011, 53, 564-569.	0.6	17
25	High-temperature oxidation of europium (II) sulfide. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 79, 62-70.	5.8	17
26	Structural, Electronic and Vibrational Properties of $\text{YAl}_3(\text{BO}_3)_4$ . <i>Materials</i> , 2020, 13, 545.	2.9	17
27	New candidate to reach Shockley-Queisser limit: The DFT study of orthorhombic silicon allotrope $\text{Si}(\text{oP}32)$ . <i>Journal of Physics and Chemistry of Solids</i> , 2020, 137, 109219.	4.0	15
28	Raman spectra and phase composition of $\text{MnGeO}_3$ crystals. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 531-536.	2.5	14
29	Fabrication of Microcrystalline $\text{NaPbLa}(\text{WO}_4)_3\text{Yb}^{3+}/\text{Ho}^{3+}$ Phosphors and Their Upconversion Photoluminescent Characteristics. <i>Korean Journal of Materials Research</i> , 2019, 29, 741-746.	0.2	14
30	Quaternary Selenides $\text{EuLnCuSe}_3$ : Synthesis, Structures, Properties and In Silico Studies. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1503.	4.1	14
31	New double nonlinear-optical borate $\text{Rb}_3\text{SmB}_6\text{O}_{12}$ : Synthesis, structure and spectroscopic properties. <i>Journal of Alloys and Compounds</i> , 2022, 905, 164022.	5.5	14
32	Exploration of the Crystal Structure and Thermal and Spectroscopic Properties of Monoclinic Praseodymium Sulfate $\text{Pr}_2(\text{SO}_4)_3$ . <i>Molecules</i> , 2022, 27, 3966.	3.8	14
33	Infrared absorption investigation of the role of octahedral groups upon the phase transition in the $\text{Rb}_2\text{KMoO}_3\text{F}_3$ crystal. <i>Physics of the Solid State</i> , 2013, 55, 2331-2334.	0.6	12
34	Experimental and DFT study of $\text{BaLaCuS}_3$ : Direct band gap semiconductor. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 148, 109670.	4.0	12
35	Synthesis, structure, melting and optical properties of three complex orthorhombic sulfides $\text{BaDyCuS}_3$ , $\text{BaHoCuS}_3$ and $\text{BaYbCuS}_3$ . <i>Materials Research Bulletin</i> , 2021, 140, 111314.	5.2	11
36	Exploration of the structural, spectroscopic and thermal properties of double sulfate monohydrate $\text{NaSm}(\text{SO}_4)_2 \cdot \text{H}_2\text{O}$ and its thermal decomposition product $\text{NaSm}(\text{SO}_4)_2$ . <i>Advanced Powder Technology</i> , 2021, 32, 3943-3953.	4.1	11

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37	Crystal and electronic structure, thermochemical and photophysical properties of europium-silver sulfate monohydrate $\text{AgEu}(\text{SO}_4)_2 \cdot \text{H}_2\text{O}$ . <i>Journal of Solid State Chemistry</i> , 2021, 294, 121898.	2.9	10
38	Raman spectra and phase transitions in $\text{Rb}_2\text{KInF}_6$ elpasolite. <i>Crystallography Reports</i> , 2011, 56, 18-23.	0.6	9
39	Hydrostatic Pressure-Induced Phase Transitions in $\text{Rb}_2\text{KInF}_6$ and $\text{Rb}_2\text{KScF}_6$ Crystals: Raman Spectra and Lattice Dynamics Simulations. <i>Ferroelectrics</i> , 2012, 440, 100-104.	0.6	9
40	Crystal structure and phase transitions of a layered perovskite-like $\text{CsScF}_4$ crystal. <i>CrystEngComm</i> , 2016, 18, 8472-8486.	2.6	9
41	Infrared absorption spectra of a $\text{Nd}_0.5\text{Ho}_0.5\text{Fe}_3(\text{BO}_3)_4$ crystal. <i>Physics of the Solid State</i> , 2016, 58, 155-159.	0.6	9
42	Identification of anhydrous $\text{CaCl}_2$ and $\text{KCaCl}_3$ in natural inclusions by Raman spectroscopy. <i>Chemical Geology</i> , 2018, 493, 532-543.	3.3	9
43	Exploration of the Structural and Vibrational Properties of the Ternary Molybdate $\text{Tl}_5\text{BiHf}(\text{MoO}_4)_6$ with Isolated $\text{MoO}_4$ Units and $\text{Tl}^{+}$ Conductivity. <i>Inorganic Chemistry</i> , 2020, 59, 12681-12689.	4.0	8
44	A raman study of hydrostatic pressure induced phase transitions in $\text{Rb}_2\text{KInF}_6$ crystals. <i>Physics of the Solid State</i> , 2012, 54, 934-936.	0.6	7
45	Nature of phase transitions in ammonium oxofluorovanadates, a vibrational spectroscopy study of $(\text{NH}_4)_3\text{VO}_2\text{F}_4$ and $(\text{NH}_4)_3\text{VOF}_5$ . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 176, 106-113.	3.9	7
46	Raman and infrared characterization of gadolinium-doped manganese sulfide. <i>Spectroscopy Letters</i> , 2017, 50, 55-58.	1.0	7
47	Raman Spectroscopy of Janus $\text{MoSSe}$ Monolayer Polymorph Modifications Using Density Functional Theory. <i>Materials</i> , 2022, 15, 3988.	2.9	6
48	Raman Scattering Study Temperature Phase Transitions of $\text{Rb}_2\text{KInF}_6$ Crystal. <i>Ferroelectrics</i> , 2011, 416, 95-100.	0.6	5
49	Raman scattering study of $\text{BiB}_3\text{O}_6$ crystal. <i>Ferroelectrics</i> , 2016, 501, 26-31.	0.6	5
50	Structural, electronic and vibrational properties of $\text{LaF}_3$ according to density functional theory and Raman spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 255901.	1.8	5
51	Monoclinic $\text{SmAl}_3(\text{BO}_3)_4$ : synthesis, structural and spectroscopic properties. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020, 76, 654-660.	1.1	5
52	Micro-Raman study of cesanite ( $\text{Ca}_2\text{Na}_3(\text{OH})(\text{SO}_4)_3$ ) in chloride segregations from Udachnaya East kimberlites. <i>Journal of Raman Spectroscopy</i> , 2022, 53, 497-507.	2.5	5
53	Europium (II) Sulfate $\text{EuSO}_4$ : Synthesis Methods, Crystal and Electronic Structure, Luminescence Properties. <i>European Journal of Inorganic Chemistry</i> , 2022, 2022, .	2.0	5
54	SI: Advances in Density Functional Theory (DFT) Studies of Solids. <i>Materials</i> , 2022, 15, 2099.	2.9	5

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55	Vibrational spectra of NdF <sub>3</sub> crystal. Ferroelectrics, 2016, 501, 15-19.	0.6	4
56	Application of Raman spectroscopy for identification of rinneite (K <sub>3</sub> NaFeCl <sub>6</sub> ) in inclusions in minerals. Journal of Raman Spectroscopy, 2020, 51, 2505-2516.	2.5	4
57	Raman study of 3.65 Å <sup>-1</sup> -phase MgSi(OH) <sub>6</sub> under high pressure and the bands assignment. High Pressure Research, 2020, 40, 495-510.	1.2	4
58	Structural Features of Y <sub>2</sub> O <sub>2</sub> SO <sub>4</sub> via DFT Calculations of Electronic and Vibrational Properties. Materials, 2021, 14, 3246.	2.9	4
59	Raman scattering and phase transitions in (NH <sub>4</sub> ) <sub>3</sub> TiF <sub>7</sub> . Journal of Raman Spectroscopy, 2018, 49, 1230-1235.	2.5	3
60	Structural, spectroscopic, and thermophysical investigations of the oxyfluorides CsZnMoO <sub>3</sub> F <sub>3</sub> and CsMnMoO <sub>3</sub> F <sub>3</sub> with the pyrochlore structure. Physics of the Solid State, 2014, 56, 599-605.	0.6	2
61	Polarized Raman spectroscopy of delta-BiB <sub>3</sub> O <sub>6</sub> at 7 Å <sup>-1</sup> . Journal of Raman Spectroscopy, 2017, 48, 1414-1419.	2.5	2
62	Synthesis and luminescent properties of (RE <sub>0.95</sub> Ln <sub>0.05</sub> ) <sub>2</sub> O <sub>2</sub> S (RE = La, Y; Ln = Ho, Tm). Journal of Solid State Chemistry, 2021, 293, 121753.	2.9	2
63	Evolution of Structural, Thermal, Optical, and Vibrational Properties of Sc <sub>2</sub> S <sub>3</sub> , ScCuS <sub>2</sub> , and BaScCuS <sub>3</sub> Semiconductors. European Journal of Inorganic Chemistry, 2021, 2021, 3355-3366.	2.0	2
64	Raman spectroscopy study of the behavior of the soft mode in a structural phase transition in the Pr <sub>3</sub> Sb <sub>5</sub> O <sub>12</sub> crystal. Physics of the Solid State, 2015, 57, 2286-2289.	0.6	1
65	Anisotropic crystal of the Î-BiB <sub>3</sub> O <sub>6</sub> investigated by vibrational spectroscopy. IOP Conference Series: Materials Science and Engineering, 2016, 155, 012029.	0.6	1
66	Raman Spectra and Structural Phase Transition in Pr <sub>3</sub> Sb <sub>5</sub> O <sub>12</sub> Crystal. Ferroelectrics, 2015, 486, 86-90.	0.6	0