Victor Atuchin

List of Publications by Year
in descending order

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363	12,577	19655 61	38392 95
papers	citations	h-index	g-index

369	369	369	7038
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural and Luminescence Properties of Yellow-Emitting NaScSi₂O₆:Eu²⁺ Phosphors: Eu²⁺ Site Preference Analysis and Generation of Red Emission by Codoping Mn²⁺ for White-Light-Emitting Diode Applications. Journal of Physical Chemistry C, 2013, 117, 20847-20854.	3.1	366
2	Ti 2p and O 1s core levels and chemical bonding in titanium-bearing oxides. Journal of Electron Spectroscopy and Related Phenomena, 2006, 152, 18-24.	1.7	292
3	Structure evolution and photoluminescence of Lu₃(Al,Mg)₂(Al,Si)₃O₁₂:Ce³⁺ phosphors: new yellow-color converters for blue LED-driven solid state lighting. Journal of Materials Chemistry C, 2016, 4, 6855-6863.	5.5	271
4	New Yellow-Emitting Whitlockite-type Structure Sr_{1.75}Ca_{1.25}(PO₄)₂:Eu²⁺ Phosphor for Near-UV Pumped White Light-Emitting Devices. Inorganic Chemistry, 2014, 53, 5129-5135.	4.0	258
5	Photoluminescence Tuning via Cation Substitution in Oxonitridosilicate Phosphors: DFT Calculations, Different Site Occupations, and Luminescence Mechanisms. Chemistry of Materials, 2014, 26, 2991-3001.	6.7	244
6	Crystal chemistry and luminescence properties of red-emitting CsGd_{1â^'x}Eu_x(MoO₄)₂ solid-solution phosphors. Dalton Transactions, 2014, 43, 9669-9676.	3.3	222
7	Synthesis and Spectroscopic Properties of Monoclinic Î±-Eu₂(MoO₄)₃. Journal of Physical Chemistry C, 2014, 118, 15404-15411.	3.1	218
8	Pressure-Stimulated Synthesis and Luminescence Properties of Microcrystalline (Lu,Y)₃Al₅O₁₂:Ce³⁺ Garnet Phosphors. ACS Applied Materials & Interfaces, 2015, 7, 26235-26243.	8.0	217
9	Nb 3d and O 1s core levels and chemical bonding in niobates. Journal of Electron Spectroscopy and Related Phenomena, 2005, 142, 129-134.	1.7	203
10	Linear structural evolution induced tunable photoluminescence in clinopyroxene solid-solution phosphors. Scientific Reports, 2013, 3, 3310.	3.3	202
11	Discovery of New Solid Solution Phosphors via Cation Substitution-Dependent Phase Transition in M₃(PO₄)₂:Eu²⁺ (M = Ca/Sr/Ba) Quasi-Binary Sets. Journal of Physical Chemistry C, 2015, 119, 2038-2045.	3.1	187
12	Comparative investigations of the crystal structure and photoluminescence property of eulytite-type Ba₃Eu(PO₄)₃and Sr₃Eu(PO₄)₃. Dalton Transactions, 2015, 44, 7679-7686.	3.3	161
13	Structure, morphology and optical properties of nanocrystalline yttrium oxide (Y2O3) thin films. Optical Materials, 2012, 34, 893-900.	3.6	160
14	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
15	Structural and Electronic Properties of ZnWO₄(010) Cleaved Surface. Crystal Growth and Design, 2011, 11, 2479-2484.	3.0	153
16	Structural and spectroscopic properties of new noncentrosymmetric self-activated borate Rb3EuB6O12 with B5O10 units. Materials and Design, 2018, 140, 488-494.	7.0	153
17	Blue-shift of Eu²⁺emission in (Ba,Sr)₃Lu(PO₄)₃:Eu²⁺eulytite solid-solution phosphors resulting from release of neighbouring-cation-induced stress. Dalton Transactions, 2014, 43, 16800-16804.	3.3	148
18	Green Light-Excitable Ce-Doped Nitridomagnesoaluminate Sr[Mg₂Al₂N₄] Phosphor for White Light-Emitting Diodes. Chemistry of Materials, 2016, 28, 6822-6825.	6.7	138

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19	Growth and surface characterization of sputter-deposited molybdenum oxide thin films. Applied Surface Science, 2007, 253, 5368-5374.	6.1	130
20	Electronic structure and charge transport properties of amorphous Ta2O5 films. Journal of Non-Crystalline Solids, 2008, 354, 3025-3033.	3.1	118
21	X-ray Photoelectron Spectroscopy Depth Profiling of La₂O₃/Si Thin Films Deposited by Reactive Magnetron Sputtering. ACS Applied Materials & Interfaces, 2011, 3, 4370-4373.	8.0	118
22	Morphology and structure of hexagonal MoO3 nanorods. Inorganic Materials, 2008, 44, 622-627.	0.8	117
23	Sublimation growth and vibrational microspectrometry of Î±-MoO3 single crystals. Journal of Crystal Growth, 2011, 318, 987-990.	1.5	116
24	Cation Substitution Dependent Bimodal Photoluminescence in Whitlockite Structural Ca_{3â€“x}Sr_x(PO₄)₂:Eu²⁺ (0 â‰¤	4.0	0 0 0 rg BT /Ove
25	Formation of Inert Bi₂Se₃(0001) Cleaved Surface. Crystal Growth and Design, 2011, 11, 5507-5514.	3.0	112
26	Electromagnetic properties of BaFe12O19:Ti at centimeter wavelengths. Journal of Alloys and Compounds, 2018, 755, 177-183.	5.5	105
27	Phase Transformation in Ca₃(PO₄)₂:Eu²⁺ via the Controlled Quenching and Increased Eu²⁺ Content: Identification of New Cyanâ€Emitting Î±â€Ca₃(PO₄)₂:Eu²⁺ Phosphor. Journal of the American Ceramic Society, 2015, 98, 3280-3284.	3.8	103
28	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
29	Electronic structure of layered titanate Nd2Ti2O7. Surface Science, 2008, 602, 3095-3099.	1.9	97
30	Synthesis of Y3Al5O12:Ce3+ phosphor in the Y2O3â€“Al metalâ€“CeO2 ternary system. Journal of Materials Science, 2017, 52, 13033-13039.	3.7	97
31	Low-Temperature Chemical Synthesis and Microstructure Analysis of GeO₂ Crystals with Î±-Quartz Structure. Crystal Growth and Design, 2009, 9, 1829-1832.	3.0	96
32	Flux Crystal Growth and the Electronic Structure of BaFe₁₂O₁₉ Hexaferrite. Journal of Physical Chemistry C, 2016, 120, 5114-5123.	3.1	96
33	Exploration on anion ordering, optical properties and electronic structure in K3WO3F3 elpasolite. Journal of Solid State Chemistry, 2012, 187, 159-164.	2.9	95
34	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
35	Synthesis, structural and vibrational properties of microcrystalline RbNd(MoO4)2. Journal of Crystal Growth, 2011, 318, 683-686.	1.5	91
36	Synthesis and spectroscopic properties of multiferroic Î²â€²-Tb2(MoO4)3. Optical Materials, 2014, 36, 1631-1635.	3.6	86

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37	Electronic structure of Î²-RbSm(MoO₄)₂and chemical bonding in molybdates. Dalton Transactions, 2015, 44, 1805-1815.	3.3	85
38	Exploration of structural, thermal, vibrational and spectroscopic properties of new noncentrosymmetric double borate Rb3NdB6O12. Advanced Powder Technology, 2017, 28, 1309-1315.	4.1	84
39	Electronic parameters of Sr2Nb2O7 and chemical bonding. Journal of Solid State Chemistry, 2008, 181, 1285-1291.	2.9	81
40	Electronic Structure and Optical Quality of Nanocrystalline Y₂O₃ Film Surfaces and Interfaces on Silicon. Journal of Physical Chemistry C, 2014, 118, 13644-13651.	3.1	81
41	Optical properties and thermal stability of germanium oxide (GeO2) nanocrystals with Î±-quartz structure. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 174, 279-284.	3.5	80
42	Exploration of the Electronic Structure of Monoclinic Î±-Eu₂(MoO₄)₃: DFT-Based Study and X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 10559-10568.	3.1	80
43	Antimicrobial potential of ZnO, TiO2 and SiO2 nanoparticles in protecting building materials from biodegradation. International Biodeterioration and Biodegradation, 2020, 146, 104821.	3.9	80
44	Electronic structure of layered ferroelectric high-ktitanate La₂Ti₂O₇. Journal Physics D: Applied Physics, 2009, 42, 035305.	2.8	79
45	Enhanced optical constants of nanocrystalline yttrium oxide thin films. Applied Physics Letters, 2011, 98, .	3.3	79
46	Triple molybdate scheelite-type upconversion phosphor NaCaLa(MoO₄)₃:Er³⁺/Yb³⁺: structural and spectroscopic properties. Dalton Transactions, 2016, 45, 15541-15551.	3.3	79
47	Low-temperature synthesis of morphology controlled metastable hexagonal molybdenum trioxide (MoO3). Solid State Communications, 2009, 149, 6-9.	1.9	78
48	Surface crystallography and electronic structure of potassium yttrium tungstate. Journal of Applied Physics, 2008, 104, .	2.5	77
49	Structural evolution induced preferential occupancy of designated cation sites by Eu²⁺ in M₅(Si₃O₉)₂ (M = Sr, Ba, Y, Mn) phosphors. RSC Advances, 2016, 6, 57261-57265.	3.6	74
50	Prediction of refractive index of inorganic compound by chemical formula. Optics Communications, 2008, 281, 2132-2138.	2.1	72
51	Calcium and strontium thiobarbiturates with discrete and polymeric structures. Journal of Coordination Chemistry, 2013, 66, 4119-4130.	2.2	72
52	Electronic properties of ZnWO4 based on ab initio FP-LAPW band-structure calculations and X-ray spectroscopy data. Materials Chemistry and Physics, 2013, 140, 588-595.	4.0	72
53	Tellurium and sulfur doped GaSe for mid-IR applications. Applied Physics B: Lasers and Optics, 2012, 108, 545-552.	2.2	71
54	Wavefront reconstruction of an optical vortex by a Hartmann-Shack sensor. Optics Letters, 2007, 32, 2291.	3.3	70

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55	Microstructural and vibrational properties of PVT grown Sb2Te3 crystals. Solid State Communications, 2014, 177, 16-19.	1.9	70
56	Synthesis, structural and vibrational properties of microcrystalline Î²-RbSm(MoO4)2. Materials Letters, 2013, 106, 26-29.	2.6	69
57	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
58	Spectroscopic ellipsometry characterization of the optical properties and thermal stability of ZrO2 films made by ion-beam assisted deposition. Applied Physics Letters, 2008, 92, .	3.3	67
59	Low-Energy Ar+Ion-Beam-Induced Amorphization and Chemical Modification of Potassium Titanyl Arsenate (001) Crystal Surfaces. Journal of Physical Chemistry C, 2007, 111, 2702-2708.	3.1	66
60	Structural and vibrational properties of microcrystalline TlM(MoO4)2 (M=Nd, Pr) molybdates. Optical Materials, 2012, 34, 812-816.	3.6	64
61	Engineering oxygen vacancies towards self-activated BaLuAl_xZn_{4â^'x}O_{7â^'(1â^'x)/2}photoluminescent materials: an experimental and theoretical analysis. Physical Chemistry Chemical Physics, 2015, 17, 31188-31194.	2.8	64
62	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
63	Phenomenological modeling and design of new acentric crystals for optoelectronics. Computational Materials Science, 2004, 30, 411-418.	3.0	60
64	Structure and chemical properties of molybdenum oxide thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2007, 25, 1166-1171.	2.1	60
65	Crystal structure and properties of the precursor [Ni(H2O)6](HTBA)2Â·2Ð2Ðž and the complexes M(HTBA)2(H2O)2 (M=Ni, Co, Fe). Polyhedron, 2014, 70, 71-76.	2.2	60
66	Growth, real structure and applications of GaSe1â^'xSx crystals. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 128, 205-210.	3.5	59
67	Preparation and structural properties of nonlinear optical borates K2(1â^'x)Rb2xAl2B2O7, 0<x<0.75. Journal of Alloys and Compounds, 2012, 515, 119-122.	5.5	59
68	Core level spectroscopy and RHEED analysis of KGd0.95 Nd0.05(WO4)2 surface. European Physical Journal B, 2006, 51, 293-300.	1.5	55
69	Structural and spectroscopic properties of self-activated monoclinic molybdate BaSm2(MoO4)4. Journal of Alloys and Compounds, 2017, 729, 843-849.	5.5	55
70	The Ag2Sâ€“In2S3â€“Si(Ge)S2 systems and crystal structure of quaternary sulfides Ag2In2Si(Ge)S6. Journal of Alloys and Compounds, 2008, 452, 348-358.	5.5	53
71	Growth and structural properties of Î±-MoO3 (010) microplates with atomically flat surface. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 174, 159-163.	3.5	53
72	Synthesis, Structural, Magnetic, and Electronic Properties of Cubic CsMnMoO₃F₃ Oxyfluoride. Journal of Physical Chemistry C, 2012, 116, 10162-10170.	3.1	52

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73	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
74	Investigation of Dual-Ion Beam Sputter-Instigated Plasmon Generation in TCOs: A Case Study of GZO. ACS Applied Materials & Interfaces, 2018, 10, 5464-5474.	8.0	52
75	Causes of refractive indices changes in He-implanted LiNbO3 and LiTaO3 waveguides. Nuclear Instruments & Methods in Physics Research B, 2000, 168, 498-502.	1.4	51
76	Core level photoemission spectroscopy and chemical bonding in Sr2Ta2O7. Chemical Physics, 2009, 360, 74-78.	1.9	51
77	Synthesis and thermal transformation of a neodymium(III) complex [Nd(HTBA)₂(C₂H₃O₂)(H₂O)₂]Â·2H₂O to non-centrosymmetric oxosulfate Nd₂O₂SO₄. Journal of Coordination Chemistry, 2015, 68, 1865-1877.	2.2	50
78	Low Thermal Gradient Czochralski growth of large CdWO4 crystals and electronic properties of (010) cleaved surface. Journal of Solid State Chemistry, 2016, 236, 24-31.	2.9	50
79	Electronic structure of KTiOAsO4: A comparative study by the full potential linearized augmented plane wave method, X-ray emission spectroscopy and X-ray photoelectron spectroscopy. Journal of Alloys and Compounds, 2009, 477, 768-775.	5.5	49
80	Electronic structure of monoclinic Î±-KY(WO4)2 tungstate as determined from first-principles FP-LAPW calculations and X-ray spectroscopy studies. Journal of Alloys and Compounds, 2009, 485, 51-58.	5.5	49
81	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
82	Crystal growth and the electronic structure of Tl3PbCl5. Journal of Physics and Chemistry of Solids, 2011, 72, 705-713.	4.0	47
83	Preparation of NaSrLa(WO4)3:Ho3+/Yb3+ ternary tungstates and their upconversion photoluminescence properties. Materials Letters, 2016, 181, 38-41.	2.6	47
84	Band alignment of Cd-free (Zn, Mg)O layer with Cu2ZnSn(S,Se)4 and its effect on the photovoltaic properties. Optical Materials, 2018, 84, 748-756.	3.6	47
85	Synthesis, structural and spectroscopic properties of acentric triple molybdate Cs2NaBi(MoO4)3. Journal of Solid State Chemistry, 2015, 225, 53-58.	2.9	46
86	Linear optical properties of LiIn(S1â€“xSex)2 crystals and tuning of phase matching conditions. Solid State Sciences, 2005, 7, 1188-1193.	3.2	45
87	Spectroscopic ellipsometry and x-ray photoelectron spectroscopy of La2O3 thin films deposited by reactive magnetron sputtering. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2011, 29, .	2.1	44
88	Structural and vibrational properties of PVT grown Bi2Te3 microcrystals. Solid State Communications, 2012, 152, 1119-1122.	1.9	44
89	Large and Uniform Single Crystals of MoS₂ Monolayers for ppb-Level NO₂ Sensing. ACS Applied Nano Materials, 2022, 5, 9415-9426.	5.0	44
90	Electronic structure of HgGa2S4. Solid State Communications, 2006, 138, 250-254.	1.9	43

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91	First and second harmonic generation of the optical susceptibilities for the non-centro-symmetric orthorhombic AgCd₂GaS₄. Journal of Physics Condensed Matter, 2008, 20, 325234.	1.8	43
92	ELECTRONIC AND STRUCTURAL PARAMETERS OF PHOSPHORUSâ€“OXYGEN BONDS IN INORGANIC PHOSPHATE CRYSTALS. Surface Review and Letters, 2008, 15, 391-399.	1.1	43
93	Crystal Structure, Vibrational, Spectroscopic and Thermochemical Properties of Double Sulfate Crystalline Hydrate [CsEu(H2O)3(SO4)2]·H2O and Its Thermal Dehydration Product CsEu(SO4)2. Crystals, 2021, 11, 1027.	2.2	43
94	Core level photoelectron spectroscopy of LiGaS2 and Gaâ€“S bonding in complex sulfides. Journal of Alloys and Compounds, 2010, 497, 244-248.	5.5	42
95	Study of KTiOPO4 surface by x-ray photoelectron spectroscopy and reflection high-energy electron diffraction. Surface and Interface Analysis, 2002, 34, 320-323.	1.8	41
96	Electronic structure of layered ferroelectric high-k titanate Pr2Ti2O7. Journal of Solid State Chemistry, 2012, 195, 125-131.	2.9	41
97	K[AsW2O9], the first member of the arsenateâ€“tungsten bronze family: Synthesis, structure, spectroscopic and non-linear optical properties. Journal of Solid State Chemistry, 2013, 204, 59-63.	2.9	41
98	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
99	S, N Co-Doped Carbon Dot-Functionalized WO₃ Nanostructures for NO₂ and H₂S Detection. ACS Applied Nano Materials, 2022, 5, 2492-2500.	5.0	40
100	Synthesis and Luminescence Properties of Blue-Emitting Phosphor Li₃Sc₂(PO₄)₃:Eu²⁺. ECS Journal of Solid State Science and Technology, 2014, 3, R159-R163.	1.8	39
101	Core level spectroscopy and RHEED analysis of KGd(WO4)2 surface. Solid State Communications, 2005, 133, 347-351.	1.9	38
102	Structural, Spectroscopic, and Electronic Properties of Cubic G0-Rb₂KTiOF₅ Oxyfluoride. Journal of Physical Chemistry C, 2013, 117, 7269-7278.	3.1	38
103	Two salts and the salt cocrystal of ciprofloxacin with thiobarbituric and barbituric acids: The structure and properties. Journal of Physical Organic Chemistry, 2018, 31, e3773.	1.9	37
104	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
105	Crystallographic, ferroelectric and optical properties of TiO₂-doped LiNbO₃crystals. Ferroelectrics, 1989, 100, 261-269.	0.6	36
106	X-ray photoelectron spectroscopy study of Î²-BaB2O4 optical surface. Applied Surface Science, 2004, 223, 352-360.	6.1	36
107	A comparative analysis of Rb:KTP and Cs:KTP optical waveguides. Journal Physics D: Applied Physics, 1998, 31, 1667-1672.	2.8	35
108	SUPERSTRUCTURE FORMATION AND X-RAY PHOTOEMISSION PROPERTIES OF THE TlTiOPO4 SURFACE. Surface Review and Letters, 2004, 11, 191-198.	1.1	35

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109	Universal Crystal Classification System â€œPoint Symmetryâ€“Physical Propertyâ€• Ferroelectrics, 2007, 360, 96-99.	0.6	35
110	Structural and electronic properties of the KTiOAsO4(001) surface. Optical Materials, 2008, 30, 1149-1152.	3.6	35
111	Optical Properties of TiO2 Films Deposited by Reactive Electron Beam Sputtering. Journal of Electronic Materials, 2017, 46, 6089-6095.	2.2	35
112	Negative thermal expansion and electronic structure variation of chalcopyrite type LiGaTe₂. RSC Advances, 2018, 8, 9946-9955.	3.6	35
113	Epitaxial growth of ZnO nanocrystals at ZnWO4(010) cleaved surface. Journal of Crystal Growth, 2011, 318, 1147-1150.	1.5	34
114	Single crystal preparation and properties of the AgGaGeS4â€“AgGaGe3Se8 solid solution. Journal of Crystal Growth, 2011, 318, 708-712.	1.5	34
115	Genes and Eating Preferences, Their Roles in Personalized Nutrition. Genes, 2020, 11, 357.	2.4	34
116	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
117	Synthesis, Structural, Thermal, and Electronic Properties of Palmierite-Related Double Molybdate Î±-Cs₂Pb(MoO₄)₂. Inorganic Chemistry, 2017, 56, 3276-3286.	4.0	33
118	Potentials of LiGa(S1â^'xSex)2 mixed crystals for optical frequency conversion. Journal of Crystal Growth, 2006, 292, 500-504.	1.5	32
119	The electronic structure of RbTiOPO₄and the effects of the A-site cation substitution in KTiOPO₄-family crystals. Journal of Physics Condensed Matter, 2012, 24, 405503.	1.8	32
120	Growth and optical parameters of GaSe:Te crystals. Russian Physics Journal, 2010, 53, 346-352.	0.4	31
121	Electronic structure and vibrational properties of KRbAl2B2O7. Materials Research Bulletin, 2013, 48, 929-934.	5.2	31
122	Electronic structure of Î²-RbNd(MoO4)2 by XPS and XES. Journal of Physics and Chemistry of Solids, 2015, 77, 101-108.	4.0	31
123	The electronic structure of Pb2MoO5: First-principles DFT calculations and X-ray spectroscopy measurements. Materials and Design, 2016, 105, 315-322.	7.0	31
124	Crystal growth of Bi2Te3 and noble cleaved (0001) surface properties. Journal of Solid State Chemistry, 2016, 236, 203-208.	2.9	31
125	Optical properties of textured V2O5/Si thin films deposited by reactive magnetron sputtering. Optical Materials, 2008, 30, 1145-1148.	3.6	29
126	Microstructural and optical properties of ZrON/Si thin films. Materials Letters, 2013, 105, 72-75.	2.6	29

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127	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
128	Comprehensive Density Functional Theory Studies of Vibrational Spectra of Carbonates. Nanomaterials, 2020, 10, 2275.	4.1	29
129	Distribution, structures and nonlinear properties of noncentrosymmetric niobates and tantalates. Journal of Solid State Chemistry, 2006, 179, 1177-1182.	2.9	28
130	Chemical shifts of atomic core levels and structure of K1â^'xTi1â^'xSbxOPO4, x=0â€“0.23, solid solutions. Journal of Solid State Chemistry, 2006, 179, 2349-2355.	2.9	28
131	Electronic structure of LiGaS2. Solid State Communications, 2009, 149, 572-575.	1.9	28
132	Electrochemical properties of sputter-deposited MoO3 films in lithium microbatteries. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2012, 30, .	2.1	28
133	Waveguide formation mechanism generated by double doping in ferroelectric crystals. Journal of Applied Physics, 1995, 78, 6936-6939.	2.5	27
134	Electrical properties of germanium oxide with Î±-quartz structure prepared by chemical precipitation. Ceramics International, 2012, 38, 5251-5255.	4.8	27
135	Two-photon absorption in undoped LiTaO3 crystals. Optical Materials, 2018, 78, 253-258.	3.6	27
136	Single crystal growth and surface chemical stability of KPb2Br5. Journal of Crystal Growth, 2011, 318, 1000-1004.	1.5	26
137	Structure and micromorphology of titanium dioxide nanoporous microspheres formed in water solution. Physics Procedia, 2012, 23, 65-68.	1.2	26
138	Facile solution-precipitation assisted synthesis and luminescence property of greenish-yellow emitting Ca6Ba(PO4)4O:Eu2+ phosphor. Materials Research Bulletin, 2016, 75, 233-238.	5.2	26
139	Synthesis, structural and spectroscopic properties of orthorhombic compounds BaLnCuS3 (LnÂ= Pr,) Tj ETQq1 1 0.784314 rgBT /Ove	5.5	26
140	Systematic and design of noncentrosymmetric sulfides and selenides for nonlinear optics. Computational Materials Science, 2006, 37, 507-511.	3.0	25
141	ELECTRONIC STRUCTURE OF AgCd2GaS4. Surface Review and Letters, 2007, 14, 403-409.	1.1	25
142	Correction of vortex laser beam in a closed-loop adaptive system with bimorph mirror. Optics Letters, 2009, 34, 2264.	3.3	25
143	Impact of fs and ns pulses on indium and sulfur doped gallium selenide crystals. AIP Advances, 2014, 4, .	1.3	25
144	A new autostabilization mechanism in the Bennet doubler circuit-based electrostatic vibrational energy harvester. Sensors and Actuators A: Physical, 2018, 272, 259-266.	4.1	25

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145	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
146	Shortest chemical bond length as a criterion for searching new noncentrosymmetric phosphate crystals. Ceramics International, 2004, 30, 2005-2009.	4.8	24
147	Accurate prediction of refractive index of inorganic oxides by chemical formula. Journal of Physics and Chemistry of Solids, 2010, 71, 958-964.	4.0	24
148	Electronic structure of Î±-SrB₄O₇: experiment and theory. Journal of Physics Condensed Matter, 2013, 25, 085503.	1.8	24
149	Physical and dispersive optical characteristics of ZrON/Si thin-film system. Applied Physics A: Materials Science and Processing, 2014, 115, 1069-1072.	2.3	24
150	Electronic Structure of Noncentrosymmetric Î±-GeO2 with Oxygen Vacancy: Ab Initio Calculations and Comparison with Experiment. Journal of Physical Chemistry C, 2014, 118, 3644-3650.	3.1	24
151	The 5-(isopropylidene)-2-thiobarbituric acid: Preparation, crystal structure, thermal stability and IR-characterization. Journal of Molecular Structure, 2014, 1068, 216-221.	3.6	24
152	Hydrated and anhydrous cobalt (II) barbiturates: Crystal structures, spectroscopic and thermal properties. Inorganica Chimica Acta, 2017, 467, 39-45.	2.4	24
153	Interrelationship of Micro- and Macro-Structure with Physical Properties of Binary Acentric Oxide Ferroelastic and Paraelastic Crystals. Ferroelectrics, 2007, 360, 104-110.	0.6	23
154	Electron microscopy characterization of hexagonal molybdenum trioxide (MoO3) nanorods. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2010, 28, 726-729.	2.1	23
155	The formation and structural parameters of new double molybdates RbLn(MoO₄)₂(Ln = Pr, Nd, Sm, Eu). Proceedings of SPIE, 2013, , .	0.8	23
156	Thiobarbiturate and barbiturate salts of pefloxacin drug: Growth, structure, thermal stability and IR-spectra. Journal of Molecular Structure, 2017, 1149, 367-372.	3.6	23
157	Sellmeier equations for green, yellow, and orange colored HgGa2S4 crystals. Applied Physics Letters, 2007, 90, 181913.	3.3	22
158	Growth, chromium distribution and electrical properties of GaSe:Cr single crystals. Materials Chemistry and Physics, 2014, 146, 12-17.	4.0	22
159	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
160	Cesium accumulation at CsB3O5 optical surface. Optical Materials, 2003, 23, 377-383.	3.6	21
161	Quenching effects on crystallographic and optical properties of HÂ:ÂLiNbO3layers. Journal Physics D: Applied Physics, 2004, 37, 1829-1833.	2.8	21
162	Defects in GaSe grown by Bridgman method. Journal of Microscopy, 2014, 256, 208-212.	1.8	21

#	Article	IF	Citations
163	Terahertz dielectric properties of multiwalled carbon nanotube/polyethylene composites. Materials Research Express, 2017, 4, 106201.	1.6	21
164	Synthesis, Crystal Structure, and Optical Gap of Two-Dimensional Halide Solid Solutions CsPb₂(Cl_{1â€“x}Br_x)₅. Inorganic Chemistry, 2018, 57, 9531-9537.	4.0	21
165	Composition-sensitive growth kinetics and dispersive optical properties of thin HfxTi1â^'xO2 (0â€‰â‰¤â€‰xâ€‰â‰¤â€‰1) films prepared by the ALD method. Journal of Materials Science: Materials in Electronics, 2019, 30, 812-823.	2.2	21
166	Crystal growth, structural characteristics and electronic structure of Ba1-xPbxFe12O19 (xÂ=) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	5.5	21
167	Comparative analysis of electronic structure of and surfaces. Journal of Crystal Growth, 2005, 275, e1603-e1607.	1.5	20
168	Stability of the (0001) surface of the Bi2Se3 topological insulator. JETP Letters, 2011, 94, 465-468.	1.4	20
169	Direct nitridation synthesis and characterization of Si3N4 nanofibers. Research on Chemical Intermediates, 2015, 41, 10037-10048.	2.7	20
170	Amorphization and chemical modification of Î²-BaB2O4 surface by polishing. Optical Materials, 2003, 23, 385-392.	3.6	19
171	Two-band conduction in TiO2. Physics of the Solid State, 2006, 48, 224-228.	0.6	19
172	Electronic parameters and top surface chemical stability of RbPb2Br5. Materials Chemistry and Physics, 2012, 132, 82-86.	4.0	19
173	Precise sputtering of silicon dioxide by argon cluster ion beams. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	19
174	Synthesis of Samarium OxysulfateSm2O2SO4 in the High-Temperature Oxidation Reaction and Its Structural, Thermal and Luminescent Properties. Molecules, 2020, 25, 1330.	3.8	19
175	Metastable states in proton exchanged layers H:LiMO3 (M=Nb,Ta). Optical Materials, 1999, 12, 157-162.	3.6	18
176	Shortest chemical bond length as a criterion for searching new noncentrosymmetric niobate and tantalate crystals with high optical nonlinearity. Journal of Crystal Growth, 2005, 275, e1941-e1946.	1.5	18
177	X-ray photoelectron spectrometry and binding energies of Be 1s and O 1s core levels in clinobarylite, BaBe2Si2O7, from Khibiny massif, Kola peninsula. Materials Characterization, 2008, 59, 1329-1334.	4.4	18
178	Optical properties of the HfO2 â^' x N x and TiO2 â^' x N x films prepared by ion beam sputtering. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2009, 106, 72-77.	0.6	18
179	Optical properties of LiGaS₂: anab initiostudy and spectroscopic ellipsometry measurement. Journal of Physics Condensed Matter, 2009, 21, 455502.	1.8	18
180	Chemical bonding between uranium and oxygen in U6+-containing compounds. Journal of Nuclear Materials, 2012, 420, 222-225.	2.7	18

#	Article	IF	Citations
181	Growth and microstructure of heterogeneous crystal GaSe:InS. CrystEngComm, 2013, 15, 1365.	2.6	18
182	The cisâ€“trans isomer transformation, spectroscopic and thermal properties of Li, Na, K 1,3-diethyl-2-thiobarbiturate complexes. Polyhedron, 2015, 85, 493-498.	2.2	18
183	Conduction mechanism of metal-TiO 2 â€“Si structures. Chinese Journal of Physics, 2017, 55, 59-63.	3.9	18
184	Structural and optical properties of noncentrosymmetric quaternary crystal AgCd2GaS4. Journal of Crystal Growth, 2006, 292, 494-499.	1.5	17
185	Growth of CdWO4 crystals by the low thermal gradient Czochralski technique and the properties of a (010) cleaved surface. Journal of Crystal Growth, 2014, 401, 156-159.	1.5	17
186	Preparation and thermo-physical parameters of diamond/W,Cu heat-conducting composite substrates. International Journal of Advanced Manufacturing Technology, 2016, 86, 475-478.	3.0	17
187	High-temperature oxidation of europium (II) sulfide. Journal of Industrial and Engineering Chemistry, 2019, 79, 62-70.	5.8	17
188	Nanofaceting of LiNbO3 X-cut surface by high temperature annealing and titanium diffusion. Optics Communications, 2003, 221, 359-363.	2.1	16
189	Physical vapor transport growth and morphology of Bi2Se3 microcrystals. Particuology, 2016, 26, 118-122.	3.6	16
190	Broadband and narrowband terahertz generation and detection in GaSe1â^'x S x crystals. Journal of Optics (United Kingdom), 2017, 19, 115503.	2.2	16
191	First-Principle Studies of the Vibrational Properties of Carbonates under Pressure. Sensors, 2021, 21, 3644.	3.8	16
192	Growth and real structure of KTiOAsO4 crystals from self-fluxes. Journal of Crystal Growth, 1997, 171, 146-153.	1.5	15
193	Restoration of KTiOPO4 surface by annealing. Optical Materials, 2003, 23, 363-367.	3.6	15
194	X-ray topography study of LiB3O5crystals grown from molybdate flux. Journal of Physics Condensed Matter, 2003, 15, 6801-6808.	1.8	15
195	Distribution, structures and nonlinear properties of noncentrosymmetric titanates. Materials Research Bulletin, 2006, 41, 1861-1867.	5.2	15
196	Structural and electronic parameters of ferroelectric. Solid State Communications, 2010, 150, 2085-2088.	1.9	15
197	The low thermal gradient Czochralski crystal growth and microstructural properties of a Pb₂MoO₅(20â^'1) cleaved surface. CrystEngComm, 2015, 17, 4512-4516.	2.6	15
198	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

#	Article	IF	Citations
199	Improving the Cu₂ZnSn(S,Se)₄-Based Photovoltaic Conversion Efficiency by Back-Contact Modification. IEEE Transactions on Electron Devices, 2021, 68, 2748-2752.	3.0	15
200	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
201	New double nonlinear-optical borate Rb3SmB6O12: Synthesis, structure and spectroscopic properties. Journal of Alloys and Compounds, 2022, 905, 164022.	5.5	14
202	Exploration of the Crystal Structure and Thermal and Spectroscopic Properties of Monoclinic Praseodymium Sulfate Pr2(SO4)3. Molecules, 2022, 27, 3966.	3.8	14
203	Influence of composition ratio variations on optical frequency conversion in mixed crystals II Random variation of composition ratio. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 3081.	2.1	13
204	Interrelation of the macrostructure and microstructure with the nonlinear optical properties of iodate and titanate crystals. Physics of the Solid State, 2009, 51, 1548-1552.	0.6	13
205	Formation of native oxide crystallites on GaSe(0 0 1) surface. Infrared Physics and Technology, 2016, 76, 126-130.	2.9	13
206	The influence of the cooling rate on the stability of z-cut H: waveguides. Journal Physics D: Applied Physics, 1997, 30, 2698-2703.	2.8	12
207	Photoelectrical characteristics of TiO₂â€Nâ€SI heterostructures. Microwave and Optical Technology Letters, 2016, 58, 1113-1116.	1.4	12
208	<title>Optical properties of Cs:KTiOPO<formula><inf><roman>4</roman></inf></formula> and Rb:KTiOPO<formula><inf><roman>4</roman></inf></formula> waveguide layers</title>. , 1993, 1932, 152.		11
209	Structure and chemical composition of LiB3O5 surfaces. Crystal Research and Technology, 2003, 38, 896-902.	1.3	11
210	<title>Distribution and structures of acentric borates for non-linear laser optics</title>. , 2006, , .		11
211	Growth, optical and microstructural properties of PbB4O7 plate crystals. Optical Materials, 2014, 37, 298-301.	3.6	11
212	Crystal structure, spectroscopic and thermal properties of the coordination compounds M(1,3-diethyl-2-thiobarbiturate) M = Rb+, Cs+, Tl+ and NH4+. Polyhedron, 2015, 98, 113-119.	2.2	11
213	Influence of alkyl substituents in 1,3-diethyl-2-thiobarbituric acid on the coordination environment in M(H₂O)₂(1,3-diethyl-2-thiobarbiturate)₂ÂMÂ=ÂCa²⁺, Sr²⁺. Journal of Coordination Chemistry, 2016, 69, 957-965.	2.2	11
214	Crystal growth and electronic structure of low-temperature phase SrMgF4. Journal of Solid State Chemistry, 2016, 236, 89-93.	2.9	11
215	Controllable electronic transformer based on the resonance structure with switching capacitor for low-rise buildings residential area power supply stabilization systems. International Journal of Electrical Power and Energy Systems, 2017, 91, 117-120.	5.5	11
216	Synthesis, structure, melting and optical properties of three complex orthorhombic sulfides BaDyCuS3, BaHoCuS3 and BaYbCuS3. Materials Research Bulletin, 2021, 140, 111314.	5.2	11

#	Article	IF	Citations
217	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
218	Synthesis, Structure, and Properties of EuLnCuSe3 (Ln = Nd, Sm, Gd, Er). Crystals, 2022, 12, 17.	2.2	11
219	<title>Proton exchange in LiTaO<formula><inf><roman>3</roman></inf></formula> with different stoichiometric composition</title>. , 1991, , .		10
220	Structure and Refractive Indices of Proton-Implanted LiNbO3. Japanese Journal of Applied Physics, 2000, 39, 2653-2656.	1.5	10
221	Precipitation of HNbO3 at the Ti:LiNbO3 surface. Applied Surface Science, 2004, 225, 1-6.	6.1	10
222	Low-temperature synthesis and structural properties of ferroelectric K3WO3F3 elpasolite. Chemical Physics Letters, 2010, 493, 83-86.	2.6	10
223	The CuGaSe2â€“CuInSe2â€“2CdS system and single crystal growth of the Î³-phase. Journal of Crystal Growth, 2011, 318, 332-336.	1.5	10
224	DISPERSIVE OPTICAL PARAMETERS OFNi(100) CRYSTAL AND THERMALLY EVAPORATED NICKEL FILMS. Modern Physics Letters B, 2012, 26, 1150029.	1.9	10
225	Synthesis, structure and properties of Na[AsW2O9]. Materials Research Bulletin, 2014, 60, 258-263.	5.2	10
226	First outer-sphere 1,3-diethyl-2-thiobarbituric compounds [M(H2O)6](1,3-diethyl-2-thiobarbiturate)2Â·2H2O (M = Co2+, Ni2+): Crystal structure, spectroscopic and thermal properties. Chemical Physics Letters, 2016, 653, 54-59.	2.6	10
227	Cu₂ZnSnS₄ crystal growth using an SnCl₂ based flux. CrystEngComm, 2021, 23, 1025-1032.	2.6	10
228	Insights into the sputter-instigated valence plasmon oscillations in CIGSe thin films. Surfaces and Interfaces, 2021, 25, 101146.	3.0	10
229	Interrelationship of Micro- and Macro-Structure with Physical Properties of Binary Acentric Sulfide Ferroelastic and Paraelastic Crystals. Ferroelectrics, 2007, 360, 100-103.	0.6	9
230	Crystal structural premises to epitaxial contacts for a series of mercury-containing compounds. Journal of Crystal Growth, 2011, 318, 1125-1128.	1.5	9
231	Electronic Structure of <i>h</i>-WO₃ and CuWO₄ Nanocrystals, Harvesting Materials for Renewable Energy Systems and Functional Devices. Applied Mechanics and Materials, 0, 110-116, 2188-2193.	0.2	9
232	Hydrates [Na₂(H₂O)_x](2-thiobarbiturate)₂ (xÂ=Â3, 4, 5): crystal structure, spectroscopic and thermal properties. Journal of Coordination Chemistry, 2016, 69, 3219-3230.	2.2	9
233	Terahertz generation from electron- and neutron-irradiated semiconductor crystal surfaces. Infrared Physics and Technology, 2016, 77, 100-103.	2.9	9
234	Structural and vibrational properties of PVT grown BiTeCl microcrystals. Materials Research Express, 2019, 6, 045912.	1.6	9

#	Article	IF	Citations
235	Formation and decay of high temperature phase in HxLi1â^'xNbO3 layers. Optical Materials, 2003, 23, 281-284.	3.6	8
236	Optical characteristics of thin rutile films on fused quartz substrates. Russian Physics Journal, 2006, 49, 468-474.	0.4	8
237	Interrelationship of Micro- and Macrostructure with Nonlinear Optical Properties of Simple and Binary Acentric Niobate Crystals. Ferroelectrics, 2010, 397, 159-168.	0.6	8
238	Synthesis and structural properties of cubic G0-Rb2KMoO3F3 oxyfluoride. Ceramics International, 2012, 38, 2455-2459.	4.8	8
239	Sphalerite Framework in Polar Sulfides. Journal of Chemical Crystallography, 2013, 43, 488-492.	1.1	8
240	Interrelationship â€œStructure-Propertyâ€•for the Crystals of Noncentrosymmetric Tungstates. Ferroelectrics, 2013, 444, 144-149.	0.6	8
241	Growth of Na₂W₂O₇ Single Crystals as Possible Optical Host Material. Solid State Phenomena, 0, 213, 160-164.	0.3	8
242	Synthesis and luminescence properties of Li2Oâ€“Y2O3â€“TeO2:Eu3+ tellurite glass. Materials Chemistry and Physics, 2014, 147, 1191-1194.	4.0	8
243	Comment on â€œA â€˜one potâ€™ gel combustion strategy towards Ti³⁺ self-doped â€˜blackâ€™ anatase TiO_{2â^'x} solar photocatalyst,â€•by S. G. Ullattil and P. Periyat, J. Mater. Chem. A, 2016, 4, 5854. Journal of Materials Chemistry A, 2017, 5, 426-427.	10.3	8
244	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
245	Two-photon holographic recording in LiTaO3:Fe crystals with high intensity nanosecond pulses at 532Ânm. Materials Chemistry and Physics, 2020, 253, 122956.	4.0	8
246	Elastic and elastooptic properties of LiB3O5. Ceramics International, 2004, 30, 1675-1677.	4.8	7
247	<title>Multilevel kinoform microlens arrays in fused silica for high-power laser optics</title>. , 2004, , .		7
248	The system Ag2Seâ€“Ho2Se3 in the 0â€“50 mol.% Ho2Se3 range and the crystal structure of two polymorphic forms of AgHoSe2. Materials Research Bulletin, 2007, 42, 1091-1098.	5.2	7
249	STRUCTURAL AND OPTICAL PROPERTIES OF Î³-MO₂N THIN FILMS DEPOSITED BY DC REACTIVE MAGNETRON SPUTTERING. International Journal of Modern Physics B, 2009, 23, 4817-4823.	2.0	7
250	Low-Temperature Synthesis and Structural Properties of PbMoO4 Nanocrystals. Asian Journal of Chemistry, 2014, 26, 1287-1289.	0.3	7
251	Effects of process parameters on the optical constants of highly textured V2O5 thin films. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2014, 117, 423-427.	0.6	7
252	The crystal growth and properties of novel magnetic double molybdate RbFe₅(MoO₄)₇with mixed Fe³⁺/Fe²⁺states and 1D negative thermal expansion. CrystEngComm, 2021, 23, 3297-3307.	2.6	7

#	Article	IF	Citations
253	Single-phase CZTSe via isothermal recrystallization in a KIâ€“KCl flux. CrystEngComm, 2022, 24, 2291-2296.	2.6	7
254	<title>Cs:KTiOAsO₄ optical ion-exchanged waveguides</title>. , 1996, , .		6
255	Wave front sensing of an optical vortex and its correction in the close-loop adaptive system with bimorph mirror. Proceedings of SPIE, 2007, , .	0.8	6
256	High-accuracy contactless method for determination of chemical composition of lithium niobate crystals by their birefringence. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 617 Td (S	0.6	6
257	Systematization of Simple and Binary Silicates According to Relationship â€œCompositionâ€“ Structureâ€“Propertyâ€• Ferroelectrics, 2010, 397, 169-176.	0.6	6
258	Comment on â€œParticle Size and Structural Control of ZnWO₄ Nanocrystals via Sn²⁺ Doping for Tunable Optical and Visible Photocatalytic Propertiesâ€• Journal of Physical Chemistry C, 2012, 116, 26106-26107.	3.1	6
259	Interrelationship of Micro- and Macrostructure with Physical Properties of Noncentrosymmetric Germanates. Ferroelectrics, 2013, 444, 137-143.	0.6	6
260	Planar Dual-Frequency Quasi-Yagi Antenna. Electromagnetics, 2016, 36, 328-339.	0.7	6
261	Borate nonlinear optical single crystal surface finishing by argon cluster ion sputtering. Surfaces and Interfaces, 2021, 27, 101520.	3.0	6
262	Optical Pumpâ€“Terahertz Probe Study of HR GaAs:Cr and SI GaAs:EL2 Structures with Long Charge Carrier Lifetimes. Photonics, 2021, 8, 575.	2.0	6
263	Stabilization of LiB 3 O 5 crystal surfaces. , 2001, , .		5
264	Formation of TiO2 and KTiOPO4 nanoclusters on the (001) surface of KTiOPO4 crystal upon annealing. Journal of Structural Chemistry, 2004, 45, S84-S87.	1.0	5
265	<title>Shortest chemical bond length as a criterion for searching new noncentrosymmetric borate crystals</title>. , 2006, , .		5
266	<title>Influence of composition ratio on the nonlinear optical properties of AgGa<formula><inf><roman>1-x</roman></inf></formula>In<formula><inf><roman>x</roman></inf></formula>Se<formula><inf><ro and Hg<formula><inf><roman>1-x</roman></inf></formula>Cd<formula><inf><roman>x</roman></inf></formula>Ga<formula><inf><rom , 2007, , .		5
267	Correction of vortex laser beams in a closed-loop adaptive system with bimorph mirror. Proceedings of SPIE, 2008, , .	0.8	5
268	Crystal structure-property relationship as a factor in the refinement of structural physical data. Journal of Structural Chemistry, 2010, 51, 1119-1125.	1.0	5
269	B-O chemical bond length as a criterion for searching new acentric borate crystals. , 2011, , .		5
270	Optimal doping of GaSe with isovalent elements. Proceedings of SPIE, 2013, , .	0.8	5

#	Article	IF	Citations
271	Cyclic MAM synthesis of SPION/BaMoO₄:Er³⁺,Yb³⁺composite and its optical properties. Proceedings of SPIE, 2013, , .	0.8	5
272	Microwave-Assisted Solvothermal Synthesis of Sr3V2O8 Nanoparticles and Their Spectroscopic Properties. Asian Journal of Chemistry, 2014, 26, 1290-1292.	0.3	5
273	The linearly polarized waveguide-fed dipole-like antenna. Journal of Electromagnetic Waves and Applications, 2015, 29, 1720-1727.	1.6	5
274	Synthesis and characterization of polycrystalline CdSiP₂. Materials Research Express, 2018, 5, 056204.	1.6	5
275	Elastic and elasto-optic properties of KTiOPO 4. , 2003, , .		4
276	<title>New mixed LiIn(S<formula><inf><roman>1-x</roman></inf></formula>Se<formula><inf><roman>x</roman></inf></formula>)<formula><inf><ron crystals for frequency conversion of IR lasers</title>. , 2004, , .		
277	Generation of optical vortex for an adaptive optical system for phase correction of laser beams with wave front dislocations. , 2004, 5572, 400.		4
278	Interrelationship â€œCompositionâ€“Structureâ€“Nonlinear Optical Propertiesâ€•in Aluminate Crystals. Ferroelectrics, 2010, 397, 151-158.	0.6	4
279	Interaction of high intensity optical pulses with modified nonlinear GaSe crystals. , 2013, , .		4
280	Microstructure and Optical Properties of BaMO4 (M = Mo, W) Particles Synthesized by Microwave-Assisted Metathetic Method. Asian Journal of Chemistry, 2014, 26, 1293-1296.	0.3	4
281	Synthesis of Mesoporous CaMoO₄ in Aqueous Solution. Solid State Phenomena, 2015, 245, 80-85.	0.3	4
282	Coordination effects in hydrated manganese(II) 1,3-diethyl-2-thiobarbiturates and their thermal stability. Polyhedron, 2017, 134, 120-125.	2.2	4
283	The dual-band reentrant power splitter. AEU - International Journal of Electronics and Communications, 2018, 84, 21-26.	2.9	4
284	Synthesis and Electronic Properties of b-RbNd(MoO4)2. Asian Journal of Chemistry, 2014, 26, 1284-1286.	0.3	4
285	High refractive index metastable phases in proton exchanged H:LiTaO3 optical waveguides. Materials Letters, 2000, 46, 189-192.	2.6	3
286	Metastable phases in HxLi1-xTaO3 waveguide layers and pure LiTaO3. Applied Physics B: Lasers and Optics, 2001, 73, 559-563.	2.2	3
287	<title>Kinoform generator of vortex laser beams</title>. , 2005, 6054, 188.		3
288	<title>Deformations in Ti-diffused proton-exchanged X-cut LiNbO<formula><inf><roman>3</roman></inf></formula> waveguide layers</title>. , 2006, , .		3

#	Article	IF	Citations
289	Compact printed dualâ€frequency quasiâ€‹<scp>Y</scp>agi antenna with a monopole driver. Microwave and Optical Technology Letters, 2017, 59, 1845-1850.	1.4	3
290	Structure, microrelief and optical properties of chromium films deposited by sublimation in vacuum. Letters on Materials, 2013, 3, 326-329.	0.7	3
291	Influence of Substrate Temperature and Sulfurization on Sputtered Cu₂SnGe(S,Se)₃ Thin Films for Solar Cell Application. IEEE Transactions on Electron Devices, 2022, 69, 2488-2493.	3.0	3
292	Development of an adaptive optical system for phase correction of laser beams with wavefront dislocations: generation of an optical vortex. , 2005, , .		2
293	Wavefront registration of an optical vortex generated with the help of spiral phase plates. , 2005, , .		2
294	Precipitation of at (100) by high-temperature annealing. Journal of Crystal Growth, 2005, 275, e1585-e1589.	1.5	2
295	<title>Classification of noncentrosymmetric oxides with RE<formula>^{<roman>3+</roman>}</formula> ions applicable for self frequency doubling (SFD) laser crystals</title>. , 2007, , .		2
296	Prediction of nonlinear optical susceptibility of the crystal by chemical formula. , 2008, , .		2
297	Prediction of crystal transparency range on the basis of chemical composition. , 2009, , .		2
298	Chemical Bonding in Photocatalytic Niobates and Tantalates. Applied Mechanics and Materials, 0, 110-116, 534-539.	0.2	2
299	Comment on â€œForming-free resistive switching behavior in Nd2O3, Dy2O3, and Er2O3 films fabricated in full room temperatureâ€•[Appl. Phys. Lett. 99, 113509 (2011)]. Applied Physics Letters, 2012, 100, 076101.	3.3	2
300	Micromorphology and spectroscopic ellipsometry of Ni(100) crystal surface. Physics Procedia, 2012, 23, 61-64.	1.2	2
301	Electronic structure of KTiOAsO4, a novel material for non-linear optical applications. , 2013, , .		2
302	Preparation and characterization of Sr₃V₂O₈nanoparticles performed via cyclic MAS route. Proceedings of SPIE, 2013, , .	0.8	2
303	Structural field of K2Al2B2O7-family crystals. , 2013, , .		2
304	New class of bicyclic compounds derived from thiobarbituric acid with representative compound 1,3-diethyl-7-hydroxy-5,5,7-trimethyl-2-thioxo-1,2,3,5,6,7-hexahydro-4H-pyrano[2,3-d]pyrimidin-4-one. Preparation, crystal structure, mass spectrometry and IR spectroscopy. Journal of Molecular Structure, 2015, 1102, 101-107.	3.6	2
305	The Reentrant Four-Layer Quasi-Elliptic Bandstop Filter. Electronics (Switzerland), 2019, 8, 81.	3.1	2
306	Microstructure and dispersive optical parameters of iron films deposited by the thermal evaporation method. Optik, 2019, 188, 120-125.	2.9	2

#	Article	IF	Citations
307	Flying apparatus DCâ€“DC starter-generator converter based on switching capacitor structures. Electrical Engineering, 2020, 102, 643-650.	2.0	2
308	Acentric tantalate crystals as promising materials for quantum and optoelectronics. , 2003, , .		1
309	High quality double doped polarizing insertion in titanium diffused lithium niobate waveguides. , 2004, , .		1
310	<title>Growth and acoustical properties of B-BaB<formula><inf><roman>2</roman></inf></formula>O<formula><inf><roman>4</roman></inf></formula> crystals</title>. , 2005, 5851, 381.		1
311	<title>Cation polyhedra space formations in non-linear optical crystals</title>. , 2007, , .		1
312	Prediction of Averaged Refractive Index of Multicomponent Oxide Crystals by Chemical Formula. Siberian Russian Workshop and Tutorial on Electron Devices and Materials, 2007, , .	0.0	1
313	Classification and relationship «structure - property» for binary noncentrosymmetric tungstates and molybdates. , 2007, , .		1
314	Nonlinear Optical Properties of Ln2Ti2O7 (Ln = La, Pr, Nd) Oxides. Siberian Russian Workshop and Tutorial on Electron Devices and Materials, 2007, , .	0.0	1
315	Design of new nonlinear optical niobates and iodates. , 2008, , .		1
316	Optical components of adaptive systems for improving laser beam quality. Proceedings of SPIE, 2008, , .	0.8	1
317	GaSe<inf>1−x</inf>S<inf>x</inf> crystals for teraherz frequency range. , 2009, , .		1
318	Electronic parameters of Sr<inf>2</inf>M<inf>2</inf>O<inf>7</inf> (M) Tj ETQq0 0 0 rgBT /Overlock 10		1
319	S-Doped GaSe for sub-microwave generation. , 2010, , .		1
320	AFM study of atomic-flat terraces on ZnWO<inf>4</inf> (010) cleaved surface. , 2011, , .		1
321	DECREASED REFRACTIVE INDEX OF NANOCRYSTALLINE ZIRCONIUM OXIDE THIN FILMS. International Journal of Modern Physics B, 2012, 26, 1250012.	2.0	1
322	Hydrothermal synthesis of anatase nanocrystals. , 2012, , .		1
323	Taxonomy, chemical bonding relations and nonlinear optical properties of noncentrosymmetric sulfide crystals. , 2013, , .		1
324	Synthesis and Micromorphology Transformation of Monoclinic Î±-Gd₂(MoO₄)₃. Solid State Phenomena, 0, 213, 165-169.	0.3	1

#	Article	IF	Citations
325	Reentrant wideband quasi-elliptic bandpass filter. Journal of Electromagnetic Waves and Applications, 2019, 33, 320-334.	1.6	1
326	Printed dualâ€frequency quasiâ€Yagi antenna with a monopole driver. Microwave and Optical Technology Letters, 2019, 61, 644-648.	1.4	1
327	High-temperature phases in H/sub x/Li/sub 1-x/TaO/sub 3/ waveguide layers. , 0, , .		0
328	Surface structure and optical properties of Ti-diffused LiNbO/sub 3/ waveguides. , 2002, , .		0
329	High temperature phases in protonated lithium niobate and tantalate properties [optical waveguide applications]. , 0, , .		0
330	Kinoform optical elements in fused silica for high-power laser optics. , 0, , .		0
331	New noncentrosymmetric sulfides promising for high optical nonlinearity. , 0, , .		0
332	Multilevel kinoform optical elements in fused silica for high-power laser optics. , 0, , .		0
333	Optical properties of ZrO<inf>2</inf> films fabricated by ion beam sputtering deposition at low temperature. , 2007, , .		0
334	Mechanism of Hightemperature Phase Formation in HxLi1-xMO3 (M = Nb, Ta) Optical Waveguide Layers. Siberian Russian Workshop and Tutorial on Electron Devices and Materials, 2007, , .	0.0	0
335	Analysis of Electron Structure of Virgin and Ti-doped Lithium Niobate Crystals. Siberian Russian Workshop and Tutorial on Electron Devices and Materials, 2007, , .	0.0	0
336	Electronic structure of La<inf>2</inf>Ti<inf>2</inf>O<inf>7</inf>. , 2007, , .		0
337	Calculation of Space Formations of Cation Polyhedra by Chemical Formula of Oxide. Siberian Russian Workshop and Tutorial on Electron Devices and Materials, 2007, , .	0.0	0
338	X-ray photoelectron spectroscopy of complex oxides and chemical bonding. , 2008, , .		0
339	Study of GaSe<inf>1−x</inf>S<inf>x</inf> properties for terahertz applications. , 2009, , .		0
340	Synthesis of molybdenum oxide nanocrystals for functional electronics. , 2009, , .		0
341	Nanostructured kinoform optical elements for high power laser systems. , 2009, , .		0
342	Prediction of acentric crystal structure of complex crystals by neural net analysis. , 2009, , .		0

#	Article	IF	Citations
343	Top surface properties of nonlinear optical borates. , 2009, , .		0
344	Electronic parameters of K<inf>3</inf>WO<inf>3</inf>F<inf>3</inf> and W-O bonding. , 2009, , .		0
345	Physical properties of electrooptical GaSe:Al. , 2010, , .		0
346	Classification of binary acentric tellurides. , 2010, , .		0
347	Interrelationship “structure — Nonlinear optical properties” for acentric chlorides. , 2010, , .		0
348	Doped GaSe crystals for optical frequency conversion in infrared and terahertz spectral ranges. , 2010, , .		0
349	Synthesis, micromorphology and structural properties of rubidium neodymium molybdate, RbNd(MoO<inf>4</inf>)<inf>2</inf>. , 2010, , .		0
350	Dispersive optical parameters of evaporated nickel films. , 2010, , .		0
351	Synthesis, structural and vibrational properties of rare-earth molybdates MNd(MoO<inf>4</inf>)<inf>2</inf> (M=Rb, Tl) and TlPr(MoO<inf>4</inf>)<inf>2</inf>. , 2011, , .		0
352	Negative dispersion in γ-Mo<inf>2</inf>N/Si(100) films. , 2011, , .		0
353	Exploration of optical and electronic parameters of lithium thiogallate (LiGaS<inf>2</inf>). , 2011, , .		0
354	Nanoporous rutile (TiO<inf>2</inf>) microspheres formed in water-based solution. , 2011, , .		0
355	Interrelationship “composition - structure - property” for Cu- and Ge-bearing sulfides. , 2011, , .		0
356	Nanointervention into crystal flatland. III. Crystal growth and micromorphology of cleaved GaSe(001) surface. , 2012, , .		0
357	Relationship of spectral characteristics and crystal morphology of h-WO<inf>3</inf> nanoplates. , 2012, , .		0
358	Microstructure and chemical composition of heterogeneous crystal GaSe:AgGaS<inf>2</inf>. , 2013, , .		0
359	Comment on â€œThe Effect of Barium Substitution on the Ferroelectric Properties of <scp><scp>Sr</scp></scp>₂<scp><scp>Nb</scp></scp>₂<scp><scp>O</scp></scp>₇ Ceramics,â€•J. Am. Ceram. Soc., 96 [4] 1163â€“70 (2013). Journal of the American Ceramic Society, 2014, 97, 326-327.	3.8	0
360	Optical methods in diagnostics of liver fibrosis via blood observation. , 2016, , .		0

#	Article	IF	Citations
361	Synthesis of Polycrystalline CdSiP2 in a Gradient Temperature Field. Russian Physics Journal, 2018, 61, 191-195.	0.4	0
362	The center-end-fed dipole-like antenna excited by the cross-like reentrant in-phase power divider. Journal of Electromagnetic Waves and Applications, 2022, 36, 2115-2134.	1.6	0
363	Robust Algorithms for Drone-Assisted Monitoring of Big Animals in Harsh Conditions of Siberian Winter Forests: Recovery of European elk (Alces alces) in Salair Mountains. Animals, 2022, 12, 1483.	2.3	0