

Mikhail G Brik

List of Publications by Year in descending order

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419
papers

12,767
citations

30047

54
h-index

46771

89
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423
all docs

423
docs citations

423
times ranked

7239
citing authors

#	ARTICLE	IF	CITATIONS
1	Mn ²⁺ and Mn ⁴⁺ red phosphors: synthesis, luminescence and applications in WLEDs. A review. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2652-2671.	2.7	511
2	50th anniversary of the Judd–Ofelt theory: An experimentalist's view of the formalism and its application. <i>Journal of Luminescence</i> , 2013, 136, 221-239.	1.5	319
3	Site Occupancy Preference, Enhancement Mechanism, and Thermal Resistance of Mn ⁴⁺ Red Luminescence in Sr ₄ Al ₁₄ O ₂₅ : Mn ⁴⁺ for Warm WLEDs. <i>Chemistry of Materials</i> , 2015, 27, 2938-2945.	3.2	309
4	On the optical properties of the Mn ⁴⁺ ion in solids. <i>Journal of Luminescence</i> , 2013, 133, 69-72.	1.5	258
5	Influence of Covalency on the Mn ⁴⁺ E _g Emission Energy in Crystals. <i>ECS Journal of Solid State Science and Technology</i> , 2015, 4, R39-R43.	0.9	254
6	Narrow Red Emission Band Fluoride Phosphor KNaSiF ₆ :Mn ⁴⁺ for Warm White Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11194-11203.	4.0	228
7	Spin-Forbidden Transitions in the Spectra of Transition Metal Ions and Nephelauxetic Effect. <i>ECS Journal of Solid State Science and Technology</i> , 2016, 5, R3067-R3077.	0.9	197
8	Highly Stable K ₂ SiF ₆ :Mn ⁴⁺ @K ₂ SiF ₆ Composite Phosphor with Narrow Red Emission for White LEDs. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18082-18092.	4.0	195
9	A low-temperature co-precipitation approach to synthesize fluoride phosphors K ₂ MF ₆ :Mn ⁴⁺ (M = Ge, Si) for white LED applications. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1655-1660.	2.7	182
10	High Color Rendering Index of Rb ₂ GeF ₆ :Mn ⁴⁺ for Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2017, 29, 935-939.	3.2	172
11	Electronic Energy Levels of the Mn ⁴⁺ Ion in the Perovskite, CaZrO ₃ . <i>ECS Journal of Solid State Science and Technology</i> , 2013, 2, R148-R152.	0.9	151
12	Revisiting Cr ³⁺ -Doped Bi ₂ Ga ₄ O ₉ Spectroscopy: Crystal Field Effect and Optical Thermometric Behavior of Near-Infrared-Emitting Singly-Activated Phosphors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41512-41524.	4.0	124
13	White light emission from Sm ³⁺ /Tb ³⁺ codoped oxyfluoride aluminosilicate glasses under UV light excitation. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 015414.	1.3	116
14	Spectroscopic and crystal field analysis of absorption and photoluminescence properties of red phosphor CaAl ₁₂ O ₁₉ :Mn ⁴⁺ modified by MgO. <i>Journal of Alloys and Compounds</i> , 2011, 509, 1452-1456.	2.8	116
15	Pushing the Limit of Boltzmann Distribution in Cr ³⁺ -Doped CaHfO ₃ for Cryogenic Thermometry. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38325-38332.	4.0	116
16	Effective Ratiometric Luminescent Thermal Sensor by Cr ³⁺ -Doped Mullite Bi ₂ Al ₄ O ₉ with Robust and Reliable Performances. <i>Advanced Optical Materials</i> , 2020, 8, 2000124.	3.6	114
17	Lattice Parameters and Stability of the Spinel Compounds in Relation to the Ionic Radii and Electronegativities of Constituting Chemical Elements. <i>Inorganic Chemistry</i> , 2014, 53, 5088-5099.	1.9	112
18	A far-red-emitting NaMgLaTeO ₆ :Mn ⁴⁺ phosphor with perovskite structure for indoor plant growth. <i>Dyes and Pigments</i> , 2019, 162, 214-221.	2.0	107

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19	Facile synthesis, morphology and photoluminescence of a novel red fluoride nanophosphor $K_2NaAlF_6:Mn^{4+}$. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6420-6426.	2.7	104
20	Modeling of lattice constant and their relations with ionic radii and electronegativity of constituting ions of A_2XY_6 cubic crystals (A=K, Cs, Rb, Tl; X=tetravalent cation, Y=F, Cl, Br, I). <i>Journal of Physics and Chemistry of Solids</i> , 2011, 72, 1256-1260.	1.9	102
21	Comparative analysis of crystal field effects and optical spectroscopy of six-coordinated Mn^{4+} ion in the $Y_2Ti_2O_7$ and $Y_2Sn_2O_7$ pyrochlores. <i>Optical Materials</i> , 2011, 33, 1671-1676.	1.7	101
22	First-principles studies of the electronic and elastic properties of metal nitrides XN (X= Sc, Ti, V, Cr, Tj). <i>ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	1.4	100
23	Ratiometric optical thermometry using deep red luminescence from $4T_2$ and $2E$ states of Cr^{3+} in $ZnGa_2O_4$ host. <i>Optical Materials</i> , 2018, 85, 510-516.	1.7	97
24	Spectroscopic studies of Sm^{3+} and Eu^{3+} co-doped lithium borate glass. <i>Journal of Alloys and Compounds</i> , 2010, 492, 712-716.	2.8	95
25	Control of Luminescence by Tuning of Crystal Symmetry and Local Structure in Mn^{4+} -Activated Narrow Band Fluoride Phosphors. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1797-1801.	7.2	93
26	Structural investigations on $PbO \cdot Sb_2O_3 \cdot B_2O_3 \cdot CoO$ glass ceramics by means of spectroscopic and dielectric studies. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 245104.	0.7	90
27	Boltzmann Thermometry in Cr^{3+} -Doped Ga_2O_3 Polymorphs: The Structure Matters!. <i>Advanced Optical Materials</i> , 2021, 9, 2100033.	3.6	90
28	Luminescence of Cr^{3+} ions in $ZnAl_2O_4$ and $MgAl_2O_4$ spinels: correlation between experimental spectroscopic studies and crystal field calculations. <i>Journal of Luminescence</i> , 2016, 177, 145-151.	1.5	86
29	Chromium(III)-Doped Fluoride Phosphors with Broadband Infrared Emission for Light-Emitting Diodes. <i>Inorganic Chemistry</i> , 2020, 59, 376-385.	1.9	84
30	First-principles calculations of electronic, optical and elastic properties of $ZnAl_2S_4$ and $ZnGa_2O_4$. <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 1435-1442.	1.9	83
31	Influence of tungsten on the emission features of Nd^{3+} , Sm^{3+} and Eu^{3+} ions in $ZnF_2 \cdot WO_3 \cdot TeO_2$ glasses. <i>Journal of Alloys and Compounds</i> , 2010, 508, 278-291.	2.8	83
32	Ab initio and crystal field studies of the Mn^{4+} -doped Ba_2LaNbO_6 double-perovskite. <i>Journal of Luminescence</i> , 2012, 132, 579-584.	1.5	83
33	Influence of Al^{3+} ions on luminescence efficiency of Eu^{3+} ions in barium boro-phosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2015, 419, 75-81.	1.5	83
34	Recent insights into upconverting nanoparticles: spectroscopy, modeling, and routes to improved luminescence. <i>Nanoscale</i> , 2019, 11, 12015-12029.	2.8	83
35	Crystal field studies of the Mn^{4+} energy levels in the perovskite, $LaAlO_3$. <i>Optical Materials</i> , 2013, 35, 1544-1548.	1.7	82
36	Deep-Red Emitting Mn^{4+} Doped Mg_2TiO_4 Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 724-730.	1.5	78

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37	The electronic and optical properties of a narrow-band red-emitting nanophosphor $K_2NaGaF_6:Mn^{4+}$ for warm white light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3016-3025.	2.7	78
38	Critical Review "A Review of the Electronic Structure and Optical Properties of Ions with d^{3+} Electron Configuration (V^{2+} , Cr^{3+} , Mn^{4+} .) <i>Tj ETQq0 0 0 rgBT/Overlogg 10 Tf 50</i> Technology, 2018, 7, R3079-R3085.	0.9	78
39	High-performance and moisture-resistant red-emitting $Cs_2SiF_6:Mn^{4+}$ for high-brightness LED backlighting. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2401-2407.	2.7	74
40	Novel efficient phosphors on the base of Mg and Zn co-doped $SrTiO_3:Pr^{3+}$. <i>Acta Materialia</i> , 2008, 56, 358-363.	3.8	73
41	A new reductive d^1 -mandelic acid loading approach for moisture-stable Mn^{4+} doped fluorides. <i>Chemical Communications</i> , 2018, 54, 11857-11860.	2.2	73
42	Calculations of the transitions intensities in the optical spectra of $Dy^{3+}:LiYF_4$. <i>Journal of Alloys and Compounds</i> , 2004, 374, 63-68.	2.8	67
43	Soft synthesis and vacuum ultraviolet spectra of $YAG:Ce^{3+}$ nanocrystals: reassignment of Ce^{3+} energy levels. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 216213.	0.7	66
44	Pyrochlore Structural Chemistry: Predicting the Lattice Constant by the Ionic Radii and Electronegativities of the Constituting Ions. <i>Journal of the American Ceramic Society</i> , 2012, 95, 1454-1460.	1.9	66
45	Spectroscopy of Mn^{4+} in Double Perovskites, La_2LiSbO_6 and La_2MgTiO_6 : Deep Red Photon Generators for Agriculture LEDs. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, R3158-R3162.	0.9	66
46	Photoluminescence of Eu^{3+} , Tb^{3+} , Dy^{3+} - and Tm^{3+} -doped transparent $GeO_2 \cdot TiO_2 \cdot K_2O$ glass ceramics. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 335106.	0.7	65
47	High moisture resistance of an efficient Mn^{4+} -activated red phosphor $Cs_2NbOF_5:Mn^{4+}$ for WLEDs. <i>Chemical Engineering Journal</i> , 2021, 405, 126678.	6.6	61
48	Structural, optical and crystal field analyses of undoped and Mn^{2+} -doped ZnS nanoparticles synthesized via reverse micelle route. <i>Journal of Luminescence</i> , 2014, 146, 133-140.	1.5	60
49	$La_6Ba_4Si_6O_{24}F_2:Sm^{3+}$ novel red-emitting phosphors: Synthesis, photoluminescence and theoretical calculations. <i>Journal of Luminescence</i> , 2019, 206, 417-425.	1.5	60
50	Significantly conquering moisture-induced luminescence quenching of red line-emitting phosphor $Rb_2SnF_6:Mn^{4+}$ through H_2CO_4 triggered particle surface reduction for blue converted warm white light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2019, 7, 247-255.	2.7	59
51	Ratiometric Luminescent Thermometers with a Customized Phase-Transition-Driven Fingerprint in Perovskite Oxides. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 38937-38945.	4.0	57
52	On the Mn^{4+} R-line emission intensity and its tunability in solids. <i>Optical Materials</i> , 2019, 91, 338-343.	1.7	57
53	Optical spectra and energy levels of the Cr^{3+} ions in MWO_4 (M=Mg, Zn, Cd) and $MgMoO_4$ crystals. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 29-34.	1.9	56
54	Role of titanium valence states in optical and electronic features of $PbO \cdot Sb_2O_3 \cdot B_2O_3:TiO_2$ glass alloys. <i>Journal of Alloys and Compounds</i> , 2009, 482, 283-297.	2.8	56

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55	Optical properties and electronic band structure of BiMg ₂ PO ₆ , BiMg ₂ VO ₆ , BiMg ₂ VO ₆ :Pr ³⁺ and BiMg ₂ VO ₆ :Eu ³⁺ . <i>Optical Materials</i> , 2014, 36, 1724-1729.	1.7	56
56	Phase-transition-induced giant enhancement of red emission in Mn ⁴⁺ -doped fluoride elpasolite phosphors. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3951-3960.	2.7	56
57	De-quenching influence of aluminum ions on Y/B ratio of Dy ³⁺ ions in lead silicate glass matrix. <i>Journal of Alloys and Compounds</i> , 2013, 575, 375-381.	2.8	55
58	Synthesis and optical properties of infrared-emitting YF ₃ :Nd nanoparticles. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	54
59	First-principles calculations of the structural and electronic properties of the cubic CaZrO ₃ (001) surfaces. <i>Surface Science</i> , 2013, 608, 146-153.	0.8	54
60	Epitaxial growth <i>via</i> anti-solvent-induced deposition towards a highly efficient and stable Mn ⁴⁺ doped fluoride red phosphor for application in warm WLEDs. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6077-6084.	2.7	54
61	Optical spectra of trivalent lanthanides in LiYF ₄ crystal. <i>Journal of Solid State Chemistry</i> , 2005, 178, 412-418.	1.4	53
62	Fully relativistic calculations of the L _{2,3} -edge XANES spectra for vanadium oxides. <i>European Physical Journal B</i> , 2006, 51, 345-355.	0.6	53
63	Narrow Band Deep Red Photoluminescence of Y ₂ Mg ₃ Ge ₃ O ₁₂ :Mn ⁴⁺ , Li ⁺ Inverse Garnet for High Power Phosphor Converted LEDs. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, R3086-R3092.	0.9	53
64	Spectral analysis of Er ³⁺ , Er ³⁺ /Yb ³⁺ and Er ³⁺ /Tm ³⁺ /Yb ³⁺ -doped TeO ₂ –ZnO–WO ₃ –TiO ₂ –Na ₂ O glasses. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 375101.	0.7	52
65	Fluorescence features of Sm ³⁺ ions in Na ₂ SO ₄ –MO–P ₂ O ₅ glass system—Influence of modifier oxide. <i>Journal of Luminescence</i> , 2011, 131, 212-217.	1.5	52
66	Luminescence enhancement in the Sr ₂ ZnW _{1-x} MoxO ₆ :Eu ³⁺ , Li ⁺ phosphor for near ultraviolet based solid state lighting. <i>Journal of Alloys and Compounds</i> , 2016, 685, 917-926.	2.8	52
67	Crystal field splitting of 5d states and luminescence mechanism in SrAl ₂ O ₄ :Eu ²⁺ phosphor. <i>Journal of Luminescence</i> , 2017, 182, 79-86.	1.5	51
68	Non-equivalent Mn ⁴⁺ doping into A ₂ NaScF ₆ (A = K, Rb, Cs) hosts toward short fluorescence lifetime for backlight display application. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9203-9210.	2.7	51
69	First-principles calculations of structural, electronic, optical and elastic properties of magnesite MgCO ₃ and calcite CaCO ₃ . <i>Physica B: Condensed Matter</i> , 2011, 406, 1004-1012.	1.3	50
70	Structural and electronic properties of SrAl ₂ O ₄ :Eu ²⁺ from density functional theory calculations. <i>Journal of Alloys and Compounds</i> , 2013, 573, 6-10.	2.8	50
71	Semi-ab initio calculations of superposition model and crystal field parameters for Co ²⁺ ions using the exchange charge model. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 2401-2410.	1.9	49
72	Optical Spectroscopy and Crystal Field Studies of the Mn ⁴⁺ Ion (3d ³) in the Double Perovskite NaLaMgTeO ₆ . <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2014, 69, 141-149.	0.3	49

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73	Enhanced Green Emission of Eu^{2+} by Energy Transfer from the D^{3+} Level of Tb^{3+} in NaCaPO_4 . Journal of Physical Chemistry C, 2014, 118, 7002-7009.	1.5	49
74	Crystal growth, spectroscopic and crystal field studies of $[\text{N}(\text{CH}_3)_4]_2\text{MnCl}_4$ and $[\text{N}(\text{CH}_3)_4]_2\text{CoCl}_4$ single crystals in the paraelectric phase. Solid State Communications, 2005, 135, 298-303.	0.9	48
75	Calculations of spin Hamiltonian parameters and analysis of trigonal distortions in $\text{LiSr}(\text{Al,Ga})\text{F}_6:\text{Cr}^{3+}$ crystals. Physica B: Condensed Matter, 2006, 384, 78-81.	1.3	48
76	Ground and excited state absorption of Ni^{2+} ions in MgAl_2O_4 : Crystal field analysis. Journal of Alloys and Compounds, 2007, 432, 61-68.	2.8	48
77	Photoluminescence properties of a novel red fluoride $\text{K}_2\text{LiGaF}_6:\text{Mn}^{4+}$ nanophosphor. RSC Advances, 2017, 7, 30588-30593.	1.7	47
78	Lanthanide Compounds with Fluorinated Aryloxy Ligands: Near-Infrared Emission from Nd, Tm, and Er. Inorganic Chemistry, 2009, 48, 3573-3580.	1.9	46
79	Influence of Bi^{3+} ions on the amplification of 1.3 μm emission of Pr^{3+} ions in lead silicate glasses for the applications in second telecom window communications. Journal of Luminescence, 2017, 182, 312-322.	1.5	46
80	Mn^{4+} -Doped Heterodialkyl Fluorogermanate Red Phosphor with High Quantum Yield and Spectral Luminous Efficacy for Warm-White-Light-Emitting Device Application. Inorganic Chemistry, 2018, 57, 14705-14714.	1.9	44
81	Influence of Crystallization on the Luminescence Characteristics of Pr^{3+} Ions in $\text{PbO}-\text{Sb}_2\text{O}_3-\text{B}_2\text{O}_3$ Glass System. Journal of the American Ceramic Society, 2010, 93, 2004-2011.	1.9	43
82	First-principles calculations of hydrostatic pressure effects on the structural, elastic and thermodynamic properties of cubic monocarbides XC ($\text{X}=\text{Ti, V, Cr, Nb, Mo, Hf}$). Solid State Sciences, 2012, 14, 1431-1444.	1.5	43
83	Comparative crystal field analysis of energy level schemes and nephelauxetic effect for Cr^{4+} , Cr^{3+} , and Mn^{4+} ions in $\text{Y}_2\text{Sn}_2\text{O}_7$ pyrochlore. Optical Materials, 2013, 35, 1251-1256.	1.7	43
84	Energy level schemes of f electronic configurations for the di-, tri-, and tetravalent lanthanides and actinides in a free state. Journal of Luminescence, 2016, 170, 369-374.	1.5	43
85	Crystal field analysis of the energy level structure of $\text{Cs}_2\text{NaAlF}_6:\text{Cr}^{3+}$. Journal of Physics Condensed Matter, 2006, 18, 5221-5234.	0.7	42
86	Lanthanide Clusters with Chalcogen Encapsulated Ln: NIR Emission from Nanoscale Nd_2S_3 . Journal of the American Chemical Society, 2011, 133, 373-378.	6.6	41
87	$\text{Li}_2\text{TiO}_3:\text{Mn}^{4+}$ Deep-Red Phosphor for the Lifetime-Based Luminescence Thermometry. ChemistrySelect, 2019, 4, 7067-7075.	0.7	41
88	Electronic structure of Ce^{3+} multicenters in yttrium aluminum garnets. Applied Physics Letters, 2013, 102, .	1.5	40
89	Microscopic analysis of the crystal field strength and electron-vibrational interaction in cubic SrTiO_3 doped with Cr^{3+} , Mn^{4+} and Fe^{5+} ions. Journal of Physics Condensed Matter, 2009, 21, 155502.	0.7	39
90	Thermal quenching of Mn^{4+} luminescence in $\text{SrAl}_2\text{O}_9:\text{Mn}^{4+}$. Journal of Luminescence, 2019, 206, 84-90.	1.5	39

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109	The nature of Mn ⁴⁺ luminescence in the orthorhombic perovskite, GdAlO ₃ . <i>Optical Materials</i> , 2017, 63, 207-212.	1.7	32
110	Calculations of Complete 4f and 4f-15d Energy Level Schemes of Free Trivalent Rare-Earth Ions. <i>Japanese Journal of Applied Physics</i> , 2004, 43, L611-L613.	0.8	31
111	Electron-phonon vibrational interaction in the 5d states of Ce ³⁺ ions in halosulphate phosphors. <i>Materials Chemistry and Physics</i> , 2011, 128, 326-330.	2.0	31
112	Ab-initio studies of the electronic and optical properties of ZnWO ₄ and CdWO ₄ single crystals. <i>Materials Chemistry and Physics</i> , 2012, 134, 1113-1120.	2.0	31
113	Influence of Al de-clustering on the photoluminescent properties of Pr ³⁺ ions in PbO-SiO ₂ glasses. <i>Journal of Non-Crystalline Solids</i> , 2013, 362, 201-206.	1.5	31
114	Luminescence of Mn ⁴⁺ ions in CaTiO ₃ and MgTiO ₃ perovskites: Relationship of experimental spectroscopic data and crystal field calculations. <i>Optical Materials</i> , 2017, 74, 46-51.	1.7	31
115	Ultrabroadband red luminescence of Mn ⁴⁺ in MgAl ₂ O ₄ peaking at 651 nm. <i>Dalton Transactions</i> , 2020, 49, 5711-5721.	1.6	31
116	Crystal field analysis of the absorption spectra and electron-phonon interaction in Ca ₃ Sc ₂ Ge ₃ O ₁₂ :Ni ²⁺ . <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 738-744.	1.9	30
117	Evidence of multicenter structure of cerium ions in gadolinium gallium garnet crystals studied by infrared absorption spectroscopy. <i>Physical Review B</i> , 2013, 87, .	1.1	30
118	Judd-Ofelt Analysis of Eu ³⁺ ; Emission in TiO ₂ ; Anatase Nanoparticles. <i>Materials Transactions</i> , 2015, 56, 1416-1418.	0.4	30
119	Crystal field analysis of energy level structure of the Cr ₂ O ₃ antiferromagnet. <i>Solid State Communications</i> , 2004, 132, 831-835.	0.9	29
120	Hybrid density-functional calculations of structural, elastic and electronic properties for a series of cubic perovskites CsMF ₃ (M=Ca, Cd, Hg, and Pb). <i>Computational Materials Science</i> , 2012, 58, 101-112.	1.4	28
121	Empirical relation between covalence and the energy position of the Ni ²⁺ 1E state in octahedral complexes. <i>Journal of Luminescence</i> , 2014, 148, 338-341.	1.5	28
122	Particle Size and Crystal Phase Dependent Photoluminescence of La ₂ Zr ₂ O ₇ :Eu ³⁺ Nanoparticles. <i>Journal of the American Ceramic Society</i> , 2015, 98, 3192-3201.	1.9	28
123	A computation study of site occupancy in the commercial Mg ₂₈ Ge _{7.55} O ₃₂ F _{15.04} :Mn ⁴⁺ phosphor. <i>Optical Materials</i> , 2016, 54, 245-251.	1.7	28
124	Luminescence and Cationic-Size-Driven Site Selection of Eu ³⁺ and Ce ³⁺ Ions in Ca ₈ Mg(SiO ₄) ₄ Cl ₂ . <i>Inorganic Chemistry</i> , 2018, 57, 14872-14881.	1.9	28
125	Optical and Photoluminescence Properties of Erbium-Doped Chalcogenide Glasses (GeGaS:Er). <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2008, 14, 1353-1360.	1.9	27
126	Comparative ab initio study of electronic, optical and chemical bonding properties of pyrochlores, Y ₂ B ₂ O ₇ (B=Ti ⁴⁺ , Sn ⁴⁺). <i>Journal of Luminescence</i> , 2010, 130, 2368-2376.	1.5	27

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127	Spectroscopic and crystal-field analysis of energy levels of Eu ³⁺ in SnO ₂ in comparison with ZrO ₂ and TiO ₂ . Journal of Alloys and Compounds, 2011, 509, 3441-3451.	2.8	27
128	Rare-earth antisites in lutetium aluminum garnets: Influence on lattice parameter and Ce ³⁺ multicenter structure. Optical Materials, 2014, 36, 1515-1519.	1.7	27
129	Luminescence of Ce ³⁺ -Doped MB ₂ Si ₂ O ₈ (M = Sr, Ba): A Deeper Insight into the Effects of Electronic Structure and Stokes Shift. Journal of Physical Chemistry C, 2016, 120, 569-580.	1.5	27
130	Vacuum Referred Binding Energy Scheme, Electron-Vibrational Interaction, and Energy Transfer Dynamics in BaMg ₂ Si ₂ O ₇ :Ln (Ce ³⁺ , Eu ²⁺) Phosphors. Journal of Physical Chemistry C, 2018, 122, 2959-2967.	1.5	27
131	Ab-initio studies of the electronic and optical properties of Al ₂ O ₃ :Ti ³⁺ laser crystals. Physica B: Condensed Matter, 2018, 532, 178-183.	1.3	27
132	Photoluminescence of Pr ³⁺ , Dy ³⁺ and Tm ³⁺ -doped transparent nanocrystallized KNbGeO ₅ glasses. Journal Physics D: Applied Physics, 2008, 41, 175106.	1.3	26
133	The de-clustering influence of aluminum ions on the emission features of Nd ³⁺ ions in PbO-SiO ₂ glasses. Optics Communications, 2013, 298-299, 135-140.	1.0	26
134	Structural, Electronic, and Optical Features of CuAl(S _{1-x} Se _x) ₂ Solar Cell Materials. Inorganic Chemistry, 2014, 53, 2645-2651.	1.9	26
135	Structural and electrical properties of zinc tantalum borate glass ceramic. Ceramics International, 2016, 42, 17269-17282.	2.3	26
136	Spectroscopy of Mn ⁴⁺ in orthorhombic perovskite, LaInO ₃ . Journal of Luminescence, 2019, 206, 398-402.	1.5	26
137	First principles studies of the structural, electronic and optical properties of LiInSe ₂ and LiInTe ₂ chalcopyrite crystals. Solid State Communications, 2015, 203, 69-74.	0.9	25
138	Luminescence of Mn ⁴⁺ in the orthorhombic perovskite, LaGaO ₃ . Journal of Luminescence, 2017, 183, 437-441.	1.5	25
139	Spectroscopic and crystal field study of Sm ³⁺ in different phases of TiO ₂ . Journal Physics D: Applied Physics, 2009, 42, 125107.	1.3	24
140	Spectroscopic and crystal field studies of LiAlO ₂ :Mn ²⁺ single crystals. Journal of Alloys and Compounds, 2010, 506, 4-9.	2.8	24
141	The dependence of 10 Dq crystal field parameter for Mn ⁴⁺ (3d ³ configuration) and the magnitude of 7F ₁ level splitting for Eu ³⁺ (4f ⁶ configuration) on pyrochlore compositions. Optical Materials, 2012, 35, 196-200.	1.7	24
142	Structural and spectroscopic studies of Eu ³⁺ doped Lu ₂ O ₃ -Gd ₂ O ₃ solid solutions. Optical Materials, 2014, 36, 1083-1091.	1.7	24
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