

Ilya E Kolesnikov

List of Publications by Year in Descending Order

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

104
papers

1,464
citations

23
h-index

34
g-index

115
ext. papers

1,997
ext. citations

3.6
avg, IF

5.07
L-index

#	Paper	IF	Citations
104	Novel red-emitting color-tunable phosphors BaBi ₂ -Eu B ₂ O ₇ (x = 0.40): Study of the crystal structure and luminescence. <i>Journal of Solid State Chemistry</i> , 2022 , 307, 122837	3.3	1
103	Mixed-valent MgAl ₂ O ₄ :Eu ²⁺ /Eu ³⁺ phosphor for ratiometric optical thermometry. <i>Physica B: Condensed Matter</i> , 2022 , 624, 413456	2.8	2
102	The impact of the molecular structure on aggregation and solid state luminescence of 2,3-diarylfumaronitriles. <i>Journal of Molecular Structure</i> , 2022 , 1248, 131503	3.4	1
101	Lanthanide(III)-Incorporating Polysiloxanes as Materials for Light-Emitting Devices. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 2683-2690	4.3	2
100	Synthesis of weakly-agglomerated luminescent CaWO ₄ :Nd ³⁺ particles by modified Pechini method. <i>Ceramics International</i> , 2021 , 48, 5100-5100	5.1	0
99	Assembly of Heterometallic Au/Cu Cores on the Scaffold of NPPN-Bridging Cyclic Bisphosphine. <i>Inorganic Chemistry</i> , 2021 , 60, 5402-5411	5.1	3
98	Platinum(II) Complexes with 10-(Aryl)phenoxarsines: Synthesis, Cis/Trans Isomerization, and Luminescence. <i>Inorganic Chemistry</i> , 2021 , 60, 6804-6812	5.1	1
97	Microcrystalline Anti-Stokes Luminophores NaYF ₄ Doped with Ytterbium, Erbium, and Lutetium Ions. <i>Russian Journal of General Chemistry</i> , 2021 , 91, 844-849	0.7	1
96	Water-soluble multimode fluorescent thermometers based on porphyrins photosensitizers. <i>Materials and Design</i> , 2021 , 203, 109613	8.1	7
95	Synthesis and study of upconversion Lu ₂ (WO ₄) ₃ : Yb ³⁺ , Tm ³⁺ nanoparticles synthesized by modified Pechini method. <i>Optical Materials</i> , 2021 , 117, 111179	3.3	3
94	Synthesis and luminescent properties of (RE _{0.95} Ln _{0.05}) ₂ O ₂ S (RE = La, Y; Ln = Ho, Tm). <i>Journal of Solid State Chemistry</i> , 2021 , 293, 121753	3.3	0
93	Laser-induced twisting of phosphorus functionalized thiazolotriazole as a way of cholinesterase activity change. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 246, 118979	4.4	2
92	Crystal structure, thermal expansion and fluorescence of Sr ₃ [_{1-5x} Eu B ₂ +Si ₁₀₈] ₂ phosphors. <i>Materials Chemistry and Physics</i> , 2021 , 260, 124151	4.4	1
91	Multimode luminescence thermometry based on emission and excitation spectra. <i>Journal of Luminescence</i> , 2021 , 231, 117828	3.8	8
90	Europium-activated phosphor Ba ₃ Lu ₂ B ₆ O ₁₅ : Influence of isomorphous substitution on photoluminescence properties. <i>Ceramics International</i> , 2021 , 47, 8030-8034	5.1	2
89	The effect of Eu ³⁺ and Gd ³⁺ co-doping on the morphology and luminescence of NaYF ₄ :Eu ³⁺ , Gd ³⁺ phosphors. <i>New Journal of Chemistry</i> , 2021 , 45, 10599-10607	3.6	1
88	In situ microsynthesis of polyaniline: synthesis structure conductivity correlation. <i>New Journal of Chemistry</i> , 2021 , 45, 15968-15976	3.6	0

87	Eu ³⁺ -doped ratiometric optical thermometers: Experiment and Judd-Ofelt modelling. <i>Optical Materials</i> , 2021 , 112, 110797	3.3	6
86	Optical Thermometry by Monitoring Dual Emissions from YVO ₄ and Eu ³⁺ in YVO ₄ :Eu ³⁺ Nanoparticles. <i>ACS Applied Nano Materials</i> , 2021 , 4, 1959-1966	5.6	9
85	Binuclear charged copper(I) complex as a multimode luminescence thermal sensor. <i>Sensors and Actuators A: Physical</i> , 2021 , 325, 112722	3.9	5
84	Structure and Luminescence Properties of Gd ₂ (WO ₄) ₃ and Gd ₂ (WO ₄) ₃ :Tm ³⁺ ,Yb ³⁺ Nanopowders Prepared by Solid-State Sintering and the Pechini Methods. <i>Inorganic Materials</i> , 2021 , 57, 805-810	0.9	0
83	Laser-induced switching of the biological activity of phosphonate molecules. <i>New Journal of Chemistry</i> , 2021 , 45, 15195-15199	3.6	1
82	Rare Earth Ion Based Luminescence Thermometry. <i>Springer Series in Chemical Physics</i> , 2021 , 69-94	0.3	0
81	Novel CaBi ₂ B ₄ O ₁₀ :Eu ³⁺ red phosphor: Synthesis, crystal structure, luminescence and thermal expansion. <i>Solid State Sciences</i> , 2020 , 106, 106280	3.4	4
80	Synthesis and luminescence properties of YVO ₄ : Nd ³⁺ , Er ³⁺ and Tm ³⁺ nanoparticles. <i>Inorganic Chemistry Communication</i> , 2020 , 118, 107990	3.1	5
79	Nd ³⁺ concentration effect on luminescent properties of MgAl ₂ O ₄ nanopowders synthesized by modified Pechini method. <i>Journal of Solid State Chemistry</i> , 2020 , 289, 121486	3.3	7
78	Formation of Au Nanoparticles and Features of Etching of a Si Substrate under Irradiation with Atomic and Molecular Ions. <i>Semiconductors</i> , 2020 , 54, 137-143	0.7	1
77	New Cu(I) halide complexes showing TADF combined with room temperature phosphorescence: the balance tuned by halogens. <i>Dalton Transactions</i> , 2020 , 49, 3155-3163	4.3	32
76	Luminescent properties of YVO ₄ :Eu ³⁺ ceramic phosphors according to Li ⁺ content. <i>Materials Today: Proceedings</i> , 2020 , 30, 365-368	1.4	1
75	Construction of efficient dual activating ratiometric YVO:Nd/Eu nanothermometers using co-doped and mixed phosphors. <i>Nanoscale</i> , 2020 , 12, 5953-5960	7.7	23
74	Solid-state fluorescent 1,2,4-triazole zinc(II) complexes: Self-organization via bifurcated (N H) ₂ ?Cl contacts. <i>Inorganica Chimica Acta</i> , 2020 , 510, 119660	2.7	0
73	New Solid Solutions of Ca ₃ □ _{1.5} Er _x ?0.5xB ₂ SiO ₈ : Synthesis, Phase Transition under the Influence of Isomorphic Substitutions and Temperature, Thermal Expansion, and Luminescent Properties of Polymorphs. <i>Glass Physics and Chemistry</i> , 2020 , 46, 415-423	0.7	0
72	Morphology and doping concentration effect on the luminescence properties of SnO ₂ :Eu ³⁺ nanoparticles. <i>Journal of Alloys and Compounds</i> , 2020 , 822, 153640	5.7	21
71	Binuclear Gold(I) Phosphine Alkynyl Complexes Templated on a Flexible Cyclic Phosphine Ligand: Synthesis and Some Features of Solid-State Luminescence. <i>Inorganic Chemistry</i> , 2020 , 59, 244-253	5.1	9
70	Concentration series of Sm ³⁺ -doped YVO ₄ nanoparticles: Structural, luminescence and thermal properties. <i>Journal of Luminescence</i> , 2020 , 219, 116946	3.8	20

69	Structural and luminescence properties of Ce ³⁺ -doped hydroxyapatite nanocrystalline powders. <i>Optical Materials</i> , 2020 , 99, 109550	3.3	8
68	Luminescence and energy transfer mechanisms in photo-thermo-refractive glasses co-doped with silver molecular clusters and Eu. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 23342-23350	3.6	5
67	Photophysical properties of new anthracene-ended calix[4]resorcinols. <i>Mendeleev Communications</i> , 2020 , 30, 650-653	1.9	3
66	Multimode high-sensitivity optical YVO:Ln nanothermometers (Ln = Eu, Dy, Sm) using charge transfer band features. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 28183-28190	3.6	11
65	Aggregation-induced emission of scandium complexes with 2-naphtoyltrifluoroacetone. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 402, 112826	4.7	
64	Triple-bridged helical binuclear copper(i) complexes: Head-to-head and head-to-tail isomerism and the solid-state luminescence. <i>Dalton Transactions</i> , 2020 , 49, 11997-12008	4.3	7
63	Gd-Doping Effect on Upconversion Emission of NaYF: Yb, Er/Tm Microparticles. <i>Materials</i> , 2020 , 13,	3.5	7
62	Intermolecular interactions-photophysical properties relationships in phenanthrene-9,10-dicarbonitrile assemblies. <i>Journal of Molecular Structure</i> , 2020 , 1199, 126789	3.4	4
61	Fluorescence enhancement of monodisperse carbon nanodots treated with aqueous ammonia and hydrogen peroxide. <i>Nanotechnology</i> , 2019 , 30, 475601	3.4	3
60	A novel thermally stable Ba ₃ Bi ₂ (BO ₃) ₄ :Eu ³⁺ red phosphor for solid state lighting application. <i>Journal of Luminescence</i> , 2019 , 216, 116714	3.8	10
59	Porphyryns as efficient ratiometric and lifetime-based contactless optical thermometers. <i>Materials and Design</i> , 2019 , 184, 108188	8.1	19
58	Fresh Look on the Nature of Dual-Band Emission of Octahedral Copper-Iodide Clusters Promising Ratiometric Luminescent Thermometers. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 25863-25870	3.8	18
57	Synthesis and optical properties RE ₂ O ₂ S:Ln (RE = La, Y; Ln = Ce, Eu, Dy, Er). <i>Journal of Solid State Chemistry</i> , 2019 , 279, 120964	3.3	7
56	Structural data of phenanthrene-9,10-dicarbonitriles. <i>Data in Brief</i> , 2019 , 27, 104605	1.2	
55	Molecular-Plasmon Nanostructures for Biomedical Application. <i>Springer Series in Chemical Physics</i> , 2019 , 173-193	0.3	1
54	Intriguing Near-Infrared Solid-State Luminescence of Binuclear Silver(I) Complexes Based on Pyridylphospholane Scaffolds. <i>Inorganic Chemistry</i> , 2019 , 58, 7698-7704	5.1	15
53	New Luminescent BaBi ₂ ̄xEu _x B ₂ O ₇ Glassmaterials. <i>Glass Physics and Chemistry</i> , 2019 , 45, 74-78	0.7	2
52	Yb ³⁺ /Er ³⁺ -doped GeO ₂ B ₂ O ₃ B ₂ F ₂ glass ceramics for ratiometric upconversion temperature sensing based on thermally and non-thermally coupled levels. <i>Optical Materials</i> , 2019 , 90, 200-207	3.3	16

51	Platinum(II)-mediated aminonitrene-bisocyanide interplay: A new route to acyclic diaminocarbene complexes. <i>Inorganica Chimica Acta</i> , 2019 , 490, 267-271	2.7	11
50	Photoluminescence properties of Eu ³⁺ -doped MgAl ₂ O ₄ nanoparticles in various surrounding media. <i>Journal of Rare Earths</i> , 2019 , 37, 806-811	3.7	10
49	Synthesis and photophysical properties of copolyfluorenes for light-emitting applications: Spectroscopic experimental study and theoretical DFT consideration. <i>Polymer</i> , 2019 , 168, 185-198	3.9	4
48	Ratiometric Optical Thermometry Based on Emission and Excitation Spectra of YVO ₄ :Eu ³⁺ Nanophosphors. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 5136-5143	3.8	45
47	Solution versus solid-state dual emission of the Au(I)-alkynyl diphosphine complexes via modification of polyaromatic spacers. <i>New Journal of Chemistry</i> , 2019 , 43, 13741-13750	3.6	5
46	Photoluminescence of Ag(I) complexes with a square-planar coordination geometry: the first observation. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 2855-2864	6.8	6
45	Plasmonic carbon nanohybrids from laser-induced deposition: controlled synthesis and SERS properties. <i>Journal of Materials Science</i> , 2019 , 54, 8177-8186	4.3	9
44	Structural, luminescence and thermometric properties of nanocrystalline YVO:Dy temperature and concentration series. <i>Scientific Reports</i> , 2019 , 9, 2043	4.9	45
43	Syntheses and Structures of a Series of Acyclic Diaminocarbene Palladium(II) Complexes Derived from 3,4-Diaryl-1H-pyrrol-2,5-diimines and Bisocyanide Palladium(II) Complexes. <i>Organometallics</i> , 2019 , 38, 300-309	3.8	6
42	The Assembly of Unique Hexanuclear Copper(I) Complexes with Effective White Luminescence. <i>Inorganic Chemistry</i> , 2019 , 58, 1048-1057	5.1	24
41	Bifunctional heater-thermometer Nd-doped nanoparticles with multiple temperature sensing parameters. <i>Nanotechnology</i> , 2019 , 30, 145501	3.4	39
40	Asymmetry ratio as a parameter of Eu ³⁺ local environment in phosphors. <i>Journal of Rare Earths</i> , 2018 , 36, 474-481	3.7	52
39	In-situ laser-induced synthesis of associated YVO ₄ :Eu ³⁺ @SiO ₂ @Au-Ag/C nanohybrids with enhanced luminescence. <i>Journal of Solid State Chemistry</i> , 2018 , 258, 835-840	3.3	4
38	Effect of synthesis conditions on structural, morphological and luminescence properties of MgAl ₂ O ₄ :Eu ³⁺ nanopowders. <i>Journal of Luminescence</i> , 2018 , 194, 387-393	3.8	13
37	Raman fingerprints for unambiguous identification of organotin compounds. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 204, 158-163	4.4	9
36	Nucleophilic addition of hydrazine and benzophenone hydrazone to 2-acetonitrilium closo-decaborate cluster: Structural and photophysical study. <i>Inorganica Chimica Acta</i> , 2018 , 482, 838-845	2.7	10
35	Y ₂ O ₃ :Nd ³⁺ nanocrystals as ratiometric luminescence thermal sensors operating in the optical windows of biological tissues. <i>Journal of Luminescence</i> , 2018 , 204, 506-512	3.8	33
34	Near-infrared emitting YVO ₄ :Nd ³⁺ nanoparticles for high sensitive fluorescence thermometry. <i>Journal of Luminescence</i> , 2018 , 195, 61-66	3.8	40

33	Synthesis and characterization of Y ₂ O ₃ :Nd ³⁺ nanocrystalline powders and ceramics. <i>Optical Materials</i> , 2018 , 75, 680-685	3.3	12
32	Effect of silica coating on luminescence and temperature sensing properties of Nd ³⁺ doped nanoparticles. <i>Journal of Alloys and Compounds</i> , 2018 , 734, 136-143	5.7	14
31	Optical temperature sensing in Tm ³⁺ /Yb ³⁺ -doped GeO ₂ /B ₂ O ₃ /PbF ₂ glass ceramics based on ratiometric and spectral line position approaches. <i>Sensors and Actuators A: Physical</i> , 2018 , 284, 251-259	3.9	19
30	The impact of doping concentration on structure and photoluminescence of Lu ₂ O ₃ :Eu ³⁺ nanocrystals. <i>Journal of Luminescence</i> , 2017 , 187, 26-32	3.8	34
29	Formation of oriented LaF ₃ and LaF ₃ :Eu ³⁺ nanocrystals at the gas solution interface. <i>Journal of Fluorine Chemistry</i> , 2017 , 200, 18-23	2.1	16
28	Nd ³⁺ single doped YVO ₄ nanoparticles for sub-tissue heating and thermal sensing in the second biological window. <i>Sensors and Actuators B: Chemical</i> , 2017 , 243, 338-345	8.5	63
27	Pyridyl Containing 1,5-Diaza-3,7-diphosphacyclooctanes as Bridging Ligands for Dinuclear Copper(I) Complexes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017 , 643, 895-902	1.3	11
26	Novel Sr ₃ Bi ₂ (BO ₃) ₄ :Eu ³⁺ red phosphor: Synthesis, crystal structure, luminescent and thermal properties. <i>Solid State Sciences</i> , 2017 , 70, 93-100	3.4	14
25	New strategy for thermal sensitivity enhancement of Nd ³⁺ -based ratiometric luminescence thermometers. <i>Journal of Luminescence</i> , 2017 , 192, 40-46	3.8	37
24	Structures and photophysical properties of 3,4-diaryl-1H-pyrrol-2,5-diimines and 2,3-diarylmaleimides. <i>Journal of Molecular Structure</i> , 2017 , 1146, 554-561	3.4	10
23	Modified Pechini method for the synthesis of weakly-agglomerated nanocrystalline yttrium aluminum garnet (YAG) powders. <i>Materials Chemistry and Physics</i> , 2017 , 189, 245-251	4.4	13
22	The luminescence properties of nanocrystalline phosphors Mg ₂ SiO ₄ :Eu ³⁺ . <i>Journal of Physics: Conference Series</i> , 2017 , 929, 012068	0.3	1
21	Europium concentration effect on characteristics and luminescent properties of hydroxyapatite nanocrystalline powders. <i>Journal of Molecular Structure</i> , 2017 , 1149, 323-331	3.4	14
20	Spectral properties of glass (15Ga ₂ S ₃ □85Ge ₂) doped with erbium. <i>Glass Physics and Chemistry</i> , 2017 , 43, 298-301	0.7	
19	Iridium(III)-catalysed cross-linking of polysiloxanes leading to the thermally resistant luminescent silicone rubbers. <i>Catalysis Science and Technology</i> , 2017 , 7, 5843-5846	5.5	27
18	Fluorescent (pyrazolyl acetoxime)ZnII complexes: Synthetic, structural, and photophysical studies. <i>Inorganica Chimica Acta</i> , 2017 , 455, 9-14	2.7	3
17	Determining the mechanism of interaction between molecules of porphyrin and fullerene and gold nanoparticles, based on luminescence spectroscopy data. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2017 , 81, 1391-1395	0.4	1
16	YVO:Nd nanophosphors as NIR-to-NIR thermal sensors in wide temperature range. <i>Scientific Reports</i> , 2017 , 7, 18002	4.9	53

15	Structural and luminescence properties of MgAl ₂ O ₄ :Eu ³⁺ nanopowders. <i>Journal of Alloys and Compounds</i> , 2016 , 654, 32-38	5.7	41
14	Ratiometric thermal sensing based on Eu ³⁺ -doped YVO ₄ nanoparticles. <i>Journal of Nanoparticle Research</i> , 2016 , 18, 1	2.3	25
13	Synthesis of novel pyridyl containing phospholanes and their polynuclear luminescent copper(i) complexes. <i>Dalton Transactions</i> , 2016 , 45, 2250-60	4.3	57
12	Nanopowders of aluminum-magnesium spinel doped with europium(3+) ions: Synthesis by hydroxocarbonates coprecipitation and study of their physicochemical properties. <i>Russian Journal of General Chemistry</i> , 2016 , 86, 2728-2729	0.7	2
11	Nd ³⁺ -doped YVO ₄ nanoparticles for luminescence nanothermometry in the first and second biological windows. <i>Sensors and Actuators B: Chemical</i> , 2016 , 235, 287-293	8.5	61
10	Double tandem cyclization of 4-(1-acyl-2,2-diaminovinyl)-6-arylpyrimidine-5-carbonitriles. Synthesis of novel peri-annulated azines. <i>Tetrahedron Letters</i> , 2016 , 57, 5192-5196	2	
9	Photoluminescence properties of Eu ³⁺ ions in yttrium oxide nanoparticles: defect vs. normal sites. <i>RSC Advances</i> , 2016 , 6, 76533-76541	3.7	45
8	Phosphorescent Platinum(II) Complexes Featuring Chelated Acetoxime Pyrazoles: Synthetic, Structural, and Photophysical Study. <i>ChemistrySelect</i> , 2016 , 1, 456-461	1.8	4
7	Concentration effect on structural and luminescent properties of YVO ₄ :Nd ³⁺ nanophosphors. <i>Materials Research Bulletin</i> , 2015 , 70, 799-803	5.1	31
6	Synthesis and study of Y ₂ O ₃ :Eu ³⁺ nanoparticles. <i>Nanotechnologies in Russia</i> , 2015 , 10, 701-705	0.6	3
5	Concentration effect on photoluminescence of Eu ³⁺ -doped nanocrystalline YVO ₄ . <i>Journal of Luminescence</i> , 2015 , 158, 469-474	3.8	48
4	Luminescence of Y ₃ Al ₅ O ₁₂ :Eu ³⁺ nanophosphors in blood and organic media. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 075401	3	24
3	Effect of synthesis conditions and surrounding medium on luminescence properties of YVO ₄ :Eu ³⁺ nanopowders. <i>Journal of Rare Earths</i> , 2015 , 33, 129-134	3.7	31
2	Eu ³⁺ concentration effect on luminescence properties of YAG:Eu ³⁺ nanoparticles. <i>Optical Materials</i> , 2014 , 37, 306-310	3.3	46
1	Sol-gel synthesis and luminescent properties of YVO ₄ : Eu nanoparticles. <i>Glass Physics and Chemistry</i> , 2013 , 39, 308-310	0.7	20