Ilya E Kolesnikov

List of Publications by Citations

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	Nd3+ single doped YVO4 nanoparticles for sub-tissue heating and thermal sensing in the second biological window. *Sensors and Actuators B: Chemical*, **2017**, 243, 338-345	8.5	63
103	Nd3+-doped YVO4 nanoparticles for luminescence nanothermometry in the first and second biological windows. *Sensors and Actuators B: Chemical*, **2016**, 235, 287-293	8.5	61
102	Synthesis of novel pyridyl containing phospholanes and their polynuclear luminescent copper(i) complexes. *Dalton Transactions*, **2016**, 45, 2250-60	4.3	57
101	YVO:Nd nanophosphors as NIR-to-NIR thermal sensors in wide temperature range. *Scientific Reports*, **2017**, 7, 18002	4.9	53
100	Asymmetry ratio as a parameter of Eu3+ local environment in phosphors. *Journal of Rare Earths*, **2018**, 36, 474-481	3.7	52
99	Concentration effect on photoluminescence of Eu3+-doped nanocrystalline YVO4. *Journal of Luminescence*, **2015**, 158, 469-474	3.8	48
98	Eu3+ concentration effect on luminescence properties of YAG:Eu3+ nanoparticles. *Optical Materials* , **2014**, 37, 306-310	3.3	46
97	Ratiometric Optical Thermometry Based on Emission and Excitation Spectra of YVO4:Eu3+ Nanophosphors. *Journal of Physical Chemistry C*, **2019**, 123, 5136-5143	3.8	45
96	Photoluminescence properties of Eu3+ ions in yttrium oxide nanoparticles: defect vs. normal sites. *RSC Advances*, **2016**, 6, 76533-76541	3.7	45
95	Structural, luminescence and thermometric properties of nanocrystalline YVO:Dy temperature and concentration series. *Scientific Reports*, **2019**, 9, 2043	4.9	45
94	Structural and luminescence properties of MgAl2O4:Eu3+ nanopowders. *Journal of Alloys and Compounds*, **2016**, 654, 32-38	5.7	41
93	Near-infrared emitting YVO 4 :Nd 3+ nanoparticles for high sensitive fluorescence thermometry. *Journal of Luminescence*, **2018**, 195, 61-66	3.8	40
92	Bifunctional heater-thermometer Nd-doped nanoparticles with multiple temperature sensing parameters. *Nanotechnology*, **2019**, 30, 145501	3.4	39
91	New strategy for thermal sensitivity enhancement of Nd3+-based ratiometric luminescence thermometers. *Journal of Luminescence*, **2017**, 192, 40-46	3.8	37
90	The impact of doping concentration on structure and photoluminescence of Lu 2 O 3 :Eu 3+ nanocrystals. *Journal of Luminescence*, **2017**, 187, 26-32	3.8	34
89	Y2O3:Nd3+ nanocrystals as ratiometric luminescence thermal sensors operating in the optical windows of biological tissues. *Journal of Luminescence*, **2018**, 204, 506-512	3.8	33
88	New Cu(i) halide complexes showing TADF combined with room temperature phosphorescence: the balance tuned by halogens. *Dalton Transactions*, **2020**, 49, 3155-3163	4.3	32

87	Concentration effect on structural and luminescent properties of YVO4:Nd3+ nanophosphors. *Materials Research Bulletin*, **2015**, 70, 799-803	5.1	31
86	Effect of synthesis conditions and surrounding medium on luminescence properties of YVO4:Eu3+ nanopowders. *Journal of Rare Earths*, **2015**, 33, 129-134	3.7	31
85	Iridium(III)-catalysed cross-linking of polysiloxanes leading to the thermally resistant luminescent silicone rubbers. *Catalysis Science and Technology*, **2017**, 7, 5843-5846	5.5	27
84	Ratiometric thermal sensing based on Eu3+-doped YVO4 nanoparticles. *Journal of Nanoparticle Research*, **2016**, 18, 1	2.3	25
83	Luminescence of Y3Al5O12:Eu3+ nanophosphors in blood and organic media. *Journal Physics D: Applied Physics*, **2015**, 48, 075401	3	24
82	The Assembly of Unique Hexanuclear Copper(I) Complexes with Effective White Luminescence. *Inorganic Chemistry*, **2019**, 58, 1048-1057	5.1	24
81	Construction of efficient dual activating ratiometric YVO:Nd/Eu nanothermometers using co-doped and mixed phosphors. *Nanoscale*, **2020**, 12, 5953-5960	7.7	23
80	Morphology and doping concentration effect on the luminescence properties of SnO2:Eu3+ nanoparticles. *Journal of Alloys and Compounds*, **2020**, 822, 153640	5.7	21
79	Sol-gel synthesis and luminescent properties of YVO4 : Eu nanoparticles. *Glass Physics and Chemistry*, **2013**, 39, 308-310	0.7	20
78	Concentration series of Sm3+-doped YVO4 nanoparticles: Structural, luminescence and thermal properties. *Journal of Luminescence*, **2020**, 219, 116946	3.8	20
77	Porphyrins as efficient ratiometric and lifetime-based contactless optical thermometers. *Materials and Design*, **2019**, 184, 108188	8.1	19
76	Optical temperature sensing in Tm3+/Yb3+-doped GeO2PbOPbF2 glass ceramics based on ratiometric and spectral line position approaches. *Sensors and Actuators A: Physical*, **2018**, 284, 251-259	3.9	19
75	Fresh Look on the Nature of Dual-Band Emission of Octahedral Copper-Iodide ClustersPromising Ratiometric Luminescent Thermometers. *Journal of Physical Chemistry C*, **2019**, 123, 25863-25870	3.8	18
74	Formation of oriented LaF3 and LaF3:Eu3+ nanocrystals at the gas Solution interface. *Journal of Fluorine Chemistry*, **2017**, 200, 18-23	2.1	16
73	Yb3+/Er3+odoped GeO2PbOPbF2 glass ceramics for ratiometric upconversion temperature sensing based on thermally and non-thermally coupled levels. *Optical Materials*, **2019**, 90, 200-207	3.3	16
72	Intriguing Near-Infrared Solid-State Luminescence of Binuclear Silver(I) Complexes Based on Pyridylphospholane Scaffolds. *Inorganic Chemistry*, **2019**, 58, 7698-7704	5.1	15
71	Novel Sr3Bi2(BO3)4:Eu3+ red phosphor: Synthesis, crystal structure, luminescent and thermal properties. *Solid State Sciences*, **2017**, 70, 93-100	3.4	14
70	Europium concentration effect on characteristics and luminescent properties of hydroxyapatite nanocrystalline powders. *Journal of Molecular Structure*, **2017**, 1149, 323-331	3.4	14

69	Effect of silica coating on luminescence and temperature sensing properties of Nd3+ doped nanoparticles. *Journal of Alloys and Compounds*, **2018**, 734, 136-143	5.7	14
68	Modified Pechini method for the synthesis of weakly-agglomerated nanocrystalline yttrium aluminum garnet (YAG) powders. *Materials Chemistry and Physics*, **2017**, 189, 245-251	4.4	13
67	Effect of synthesis conditions on structural, morphological and luminescence properties of MgAl2O4:Eu3+ nanopowders. *Journal of Luminescence*, **2018**, 194, 387-393	3.8	13
66	Synthesis and characterization of Y2O3:Nd3+ nanocrystalline powders and ceramics. *Optical Materials*, **2018**, 75, 680-685	3.3	12
65	Pyridyl Containing 1,5-Diaza-3,7-diphosphacyclooctanes as Bridging Ligands for Dinuclear Copper(I) Complexes. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2017**, 643, 895-902	1.3	11
64	Platinum(II)-mediated aminonitrone□socyanide interplay: A new route to acyclic diaminocarbene complexes. *Inorganica Chimica Acta*, **2019**, 490, 267-271	2.7	11
63	Multimode high-sensitivity optical YVO:Ln nanothermometers (Ln = Eu, Dy, Sm) using charge transfer band features. *Physical Chemistry Chemical Physics*, **2020**, 22, 28183-28190	3.6	11
62	Structures and photophysical properties of 3,4-diaryl-1H-pyrrol-2,5-diimines and 2,3-diarylmaleimides. *Journal of Molecular Structure*, **2017**, 1146, 554-561	3.4	10
61	A novel thermally stable Ba3Bi2(BO3)4:Eu3+ red phosphor for solid state lighting application. *Journal of Luminescence*, **2019**, 216, 116714	3.8	10
60	Photoluminescence properties of Eu3+-doped MgAl2O4 nanoparticles in various surrounding media. *Journal of Rare Earths*, **2019**, 37, 806-811	3.7	10
59	Nucleophilic addition of hydrazine and benzophenone hydrazone to 2-acetonitrilium closo-decaborate cluster: Structural and photophysical study. *Inorganica Chimica Acta*, **2018**, 482, 838-845	2.7	10
58	Raman fingerprints for unambiguous identification of organotin compounds. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2018**, 204, 158-163	4.4	9
57	Binuclear Gold(I) Phosphine Alkynyl Complexes Templated on a Flexible Cyclic Phosphine Ligand: Synthesis and Some Features of Solid-State Luminescence. *Inorganic Chemistry*, **2020**, 59, 244-253	5.1	9
56	Plasmonic carbon nanohybrids from laser-induced deposition: controlled synthesis and SERS properties. *Journal of Materials Science*, **2019**, 54, 8177-8186	4.3	9
55	Optical Thermometry by Monitoring Dual Emissions from YVO4 and Eu3+ in YVO4:Eu3+ Nanoparticles. *ACS Applied Nano Materials*, **2021**, 4, 1959-1966	5.6	9
54	Structural and luminescence properties of Ce3+-doped hydroxyapatite nanocrystalline powders. *Optical Materials*, **2020**, 99, 109550	3.3	8
53	Multimode luminescence thermometry based on emission and excitation spectra. *Journal of Luminescence*, **2021**, 231, 117828	3.8	8
52	Synthesis and optical properties RE2O2S:Ln (RE = La, Y; Ln = Ce, Eu, Dy, Er). *Journal of Solid State Chemistry*, **2019**, 279, 120964	3.3	7

51	Nd3+ concentration effect on luminescent properties of MgAl2O4 nanopowders synthesized by modified Pechini method. *Journal of Solid State Chemistry*, **2020**, 289, 121486	3.3	7
50	Triple-bridged helical binuclear copper(i) complexes: Head-to-head and head-to-tail isomerism and the solid-state luminescence. *Dalton Transactions*, **2020**, 49, 11997-12008	4.3	7
49	Gd-Doping Effect on Upconversion Emission of NaYF: Yb, Er/Tm Microparticles. *Materials*, **2020**, 13,	3.5	7
48	Water-soluble multimode fluorescent thermometers based on porphyrins photosensitizers. *Materials and Design*, **2021**, 203, 109613	8.1	7
47	Photoluminescence of Ag(I) complexes with a square-planar coordination geometry: the first observation. *Inorganic Chemistry Frontiers*, **2019**, 6, 2855-2864	6.8	6
46	Syntheses and Structures of a Series of Acyclic Diaminocarbene Palladium(II) Complexes Derived from 3,4-Diaryl-1H-pyrrol-2,5-diimines and Bisisocyanide Palladium(II) Complexes. *Organometallics*, **2019**, 38, 300-309	3.8	6
45	Eu3+-doped ratiometric optical thermometers: Experiment and Judd-Ofelt modelling. *Optical Materials*, **2021**, 112, 110797	3.3	6
44	Synthesis and luminescence properties of YVO4: Nd3+, Er3+ and Tm3+ nanoparticles. *Inorganic Chemistry Communication*, **2020**, 118, 107990	3.1	5
43	Solution versus solid-state dual emission of the Au(I)-alkynyl diphosphine complexes via modification of polyaromatic spacers. *New Journal of Chemistry*, **2019**, 43, 13741-13750	3.6	5
42	Luminescence and energy transfer mechanisms in photo-thermo-refractive glasses co-doped with silver molecular clusters and Eu. *Physical Chemistry Chemical Physics*, **2020**, 22, 23342-23350	3.6	5
41	Binuclear charged copper(I) complex as a multimode luminescence thermal sensor. *Sensors and Actuators A: Physical*, **2021**, 325, 112722	3.9	5
40	Synthesis and photophysical properties of copolyfluorenes for light-emitting applications: Spectroscopic experimental study and theoretical DFT consideration. *Polymer*, **2019**, 168, 185-198	3.9	4
39	Novel CaBi2B4O10:Eu3+ red phosphor: Synthesis, crystal structure, luminescence and thermal expansion. *Solid State Sciences*, **2020**, 106, 106280	3.4	4
38	In-situ laser-induced synthesis of associated YVO4:Eu3+@SiO2@Au-Ag/C nanohybrids with enhanced luminescence. *Journal of Solid State Chemistry*, **2018**, 258, 835-840	3.3	4
37	Phosphorescent Platinum(II) Complexes Featuring Chelated Acetoxime Pyrazoles: Synthetic, Structural, and Photophysical Study. *ChemistrySelect*, **2016**, 1, 456-461	1.8	4
36	Intermolecular interactions-photophysical properties relationships in phenanthrene-9,10-dicarbonitrile assemblies. *Journal of Molecular Structure*, **2020**, 1199, 126789	3.4	4
35	Fluorescence enhancement of monodisperse carbon nanodots treated with aqueous ammonia and hydrogen peroxide. *Nanotechnology*, **2019**, 30, 475601	3.4	3
34	Synthesis and study of Y2O3:Eu3+ nanoparticles. *Nanotechnologies in Russia*, **2015**, 10, 701-705	0.6	3

33	Fluorescent (pyrazolyl acetoxime)ZnII complexes: Synthetic, structural, and photophysical studies. *Inorganica Chimica Acta*, **2017**, 455, 9-14	2.7	3
32	Photophysical properties of new anthracene-ended calix[4]resorcinols. *Mendeleev Communications*, **2020**, 30, 650-653	1.9	3
31	Assembly of Heterometallic AuICuI Cores on the Scaffold of NPPN-Bridging Cyclic Bisphosphine. *Inorganic Chemistry*, **2021**, 60, 5402-5411	5.1	3
30	Synthesis and study of upconversion Lu2(WO4)3: Yb3+, Tm3+ nanoparticles synthesized by modified Pechini method. *Optical Materials*, **2021**, 117, 111179	3.3	3
29	New Luminescent BaBi2 xEuxB2O7 Glassmaterials. *Glass Physics and Chemistry*, **2019**, 45, 74-78	0.7	2
28	Mixed-valent MgAl2O4:Eu2+/Eu3+ phosphor for ratiometric optical thermometry. *Physica B: Condensed Matter*, **2022**, 624, 413456	2.8	2
27	Nanopowders of aluminum-magnesium spinel doped with europium(3+) ions: Synthesis by hydroxocarbonates coprecipitation and study of their physicochemical properties. *Russian Journal of General Chemistry*, **2016**, 86, 2728-2729	0.7	2
26	Laser-induced twisting of phosphorus functionalized thiazolotriazole as a way of cholinesterase activity change. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 246, 118979	4.4	2
25	Europium-activated phosphor Ba3Lu2B6O15: Influence of isomorphic substitution on photoluminescence properties. *Ceramics International*, **2021**, 47, 8030-8034	5.1	2
24	Lanthanide(III)-Incorporating Polysiloxanes as Materials for Light-Emitting Devices. *ACS Applied Polymer Materials*, **2022**, 4, 2683-2690	4.3	2
23	Molecular-Plasmon Nanostructures for Biomedical Application. *Springer Series in Chemical Physics*, **2019**, 173-193	0.3	1
22	Formation of Au Nanoparticles and Features of Etching of a Si Substrate under Irradiation with Atomic and Molecular Ions. *Semiconductors*, **2020**, 54, 137-143	0.7	1
21	Luminescent properties of YVO4:Eu3+ ceramic phosphors according to Li+ content. *Materials Today: Proceedings*, **2020**, 30, 365-368	1.4	1
20	The luminescence properties of nanocrystalline phosphors Mg2SiO4:Eu3+. *Journal of Physics: Conference Series*, **2017**, 929, 012068	0.3	1
19	Determining the mechanism of interaction between molecules of porphyrin and fullerene and gold nanoparticles, based on luminescence spectroscopy data. *Bulletin of the Russian Academy of Sciences: Physics*, **2017**, 81, 1391-1395	0.4	1
18	Novel red-emitting color-tunable phosphors BaBi2-Eu B2O7 (x = 0 0.40): Study of the crystal structure and luminescence. *Journal of Solid State Chemistry*, **2022**, 307, 122837	3.3	1
17	Platinum(II) Complexes with 10-(Aryl)phenoxarsines: Synthesis, Cis/Trans Isomerization, and Luminescence. *Inorganic Chemistry*, **2021**, 60, 6804-6812	5.1	1
16	Microcrystalline Anti-Stokes Luminophores NaYF4 Doped with Ytterbium, Erbium, and Lutetium Ions. *Russian Journal of General Chemistry*, **2021**, 91, 844-849	0.7	1

15	Crystal structure, thermal expansion and fluorescence of Sr3□1.5Eu B2+Si1□8□2 phosphors. *Materials Chemistry and Physics*, **2021**, 260, 124151	4.4	1
14	The effect of Eu3+ and Gd3+ co-doping on the morphology and luminescence of NaYF4:Eu3+, Gd3+ phosphors. *New Journal of Chemistry*, **2021**, 45, 10599-10607	3.6	1
13	The impact of the molecular structure on aggregation and solid state luminescence of 2,3-diarylfumaronitriles. *Journal of Molecular Structure*, **2022**, 1248, 131503	3.4	1
12	Laser-induced switching of the biological activity of phosphonate molecules. *New Journal of Chemistry*, **2021**, 45, 15195-15199	3.6	1
11	Solid-state fluorescent 1,2,4-triazole zinc(II) complexes: Self-organization via bifurcated (N H)2?Cl contacts. *Inorganica Chimica Acta*, **2020**, 510, 119660	2.7	0
10	Synthesis of weakly-agglomerated luminescent CaWO4:Nd3+ particles by modified Pechini method. *Ceramics International*, **2021**, 48, 5100-5100	5.1	0
9	New Solid Solutions of Ca3 □1.5xErx?0.5xB2SiO8: Synthesis, Phase Transition under the Influence of Isomorphic Substitutions and Temperature, Thermal Expansion, and Luminescent Properties of Polymorphs. *Glass Physics and Chemistry*, **2020**, 46, 415-423	0.7	0
8	Synthesis and luminescent properties of (RE0.95Ln0.05)2O2S (RE = La, Y; Ln = Ho, Tm). *Journal of Solid State Chemistry*, **2021**, 293, 121753	3.3	0
7	In situ microsynthesis of polyaniline: synthesis□structure□onductivity correlation. *New Journal of Chemistry*, **2021**, 45, 15968-15976	3.6	0
6	Structure and Luminescence Properties of Gd2(WO4)3 and Gd2(WO4)3:Tm3+,Yb3+ Nanopowders Prepared by Solid-State Sintering and the Pechini Methods. *Inorganic Materials*, **2021**, 57, 805-810	0.9	0
5	Rare Earth Ion Based Luminescence Thermometry. *Springer Series in Chemical Physics*, **2021**, 69-94	0.3	0
4	Structural data of phenanthrene-9,10-dicarbonitriles. *Data in Brief*, **2019**, 27, 104605	1.2	
3	Spectral properties of glass (15Ga2S3 □85GeS2) doped with erbium. *Glass Physics and Chemistry*, **2017**, 43, 298-301	0.7	
2	Aggregation-induced emission of scandium complexes with 2-naphtoyltrifluoroacetone. *Journal of Photochemistry and Photobiology A: Chemistry*, **2020**, 402, 112826	4.7	
1	Double tandem cyclization of 4-(1-acyl-2,2-diaminovinyl)-6-arylpyrimidine-5-carbonitriles. Synthesis of novel peri-annulated azines. *Tetrahedron Letters*, **2016**, 57, 5192-5196	2	