

Artur Bednarkiewicz

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147 papers	5,610 citations	40 h-index	70 g-index
160 ext. papers	6,577 ext. citations	6.4 avg, IF	6.35 L-index

#	Paper	IF	Citations
147	Advances in highly doped upconversion nanoparticles. <i>Nature Communications</i> , 2018 , 9, 2415	17.4	502
146	Upconverting nanoparticles: assessing the toxicity. <i>Chemical Society Reviews</i> , 2015 , 44, 1561-84	58.5	416
145	Lanthanide-doped up-converting nanoparticles: Merits and challenges. <i>Nano Today</i> , 2012 , 7, 532-563	17.9	311
144	Neodymium(III) doped fluoride nanoparticles as non-contact optical temperature sensors. <i>Nanoscale</i> , 2012 , 4, 6959-61	7.7	281
143	A broadening temperature sensitivity range with a core-shell YbEr@YbNd double ratiometric optical nanothermometer. <i>Nanoscale</i> , 2016 , 8, 5037-42	7.7	145
142	Near infrared absorbing near infrared emitting highly-sensitive luminescent nanothermometer based on Nd(3+) to Yb(3+) energy transfer. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 24315-21	3.6	138
141	Up-conversion FRET from Er ³⁺ /Yb ³⁺ :NaYF ₄ Nanophosphor to CdSe Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 17535-17541	3.8	125
140	Standardizing luminescence nanothermometry for biomedical applications. <i>Nanoscale</i> , 2020 , 12, 14405-14421	14.21	119
139	A new generation of highly sensitive luminescent thermometers operating in the optical window of biological tissues. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 5559-5563	7.1	119
138	Heterogeneously Nd doped single nanoparticles for NIR-induced heat conversion, luminescence, and thermometry. <i>Nanoscale</i> , 2017 , 9, 8288-8297	7.7	114
137	Sensitivity of a Nanocrystalline Luminescent Thermometer in High and Low Excitation Density Regimes. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 8877-8882	3.8	105
136	Revisiting the classification of NIR-absorbing/emitting nanomaterials for in vivo bioapplications. <i>NPG Asia Materials</i> , 2016 , 8, e295-e295	10.3	105
135	Size dependent sensitivity of Yb ³⁺ ,Er ³⁺ up-converting luminescent nano-thermometers. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 7890-7897	7.1	99
134	Optimization of highly sensitive YAG:Cr,Nd nanocrystal-based luminescent thermometer operating in an optical window of biological tissues. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 7343-7351	3.6	93
133	Neodymium-doped nanoparticles for infrared fluorescence bioimaging: The role of the host. <i>Journal of Applied Physics</i> , 2015 , 118, 143104	2.5	86
132	White emission of lithium ytterbium tetrphosphate nanocrystals. <i>Optics Express</i> , 2011 , 19, 14083-92	3.3	72
131	Energy Migration Up-conversion of Tb ³⁺ in Yb ³⁺ and Nd ³⁺ Codoped Active-Core/Active-Shell Colloidal Nanoparticles. <i>Chemistry of Materials</i> , 2016 , 28, 2295-2300	9.6	66

130	Comparison of different NaGdF ₄ :Eu ³⁺ synthesis routes and their influence on its structural and luminescent properties. <i>Journal of Physics and Chemistry of Solids</i> , 2005 , 66, 1008-1019	3.9	66
129	Power dependence of luminescence of Tb ³⁺ -doped KYb(WO ₄) ₂ crystal. <i>Journal of Luminescence</i> , 2001 , 92, 229-235	3.8	65
128	The impact of shell host (NaYF ₄ /CaF ₂) and shell deposition methods on the up-conversion enhancement in Tb ³⁺ , Yb ³⁺ codoped colloidal NaYF ₄ core-shell nanoparticles. <i>Nanoscale</i> , 2014 , 6, 1855-64	7.7	61
127	Smart NIR linear and nonlinear optical nanomaterials for cancer theranostics: Prospects in photomedicine. <i>Progress in Materials Science</i> , 2017 , 88, 89-135	42.2	60
126	Nanocrystalline NIR-to-NIR luminescent thermometer based on Cr ³⁺ , Yb ³⁺ emission. <i>Sensors and Actuators B: Chemical</i> , 2017 , 243, 388-393	8.5	60
125	Optically stimulated heating using Nd ³⁺ doped NaYF ₄ colloidal near infrared nanophosphors. <i>Applied Physics B: Lasers and Optics</i> , 2011 , 103, 847-852	1.9	60
124	Emission properties of nanostructured Eu ³⁺ doped zinc aluminate spinels. <i>Journal of Alloys and Compounds</i> , 2000 , 300-301, 456-458	5.7	58
123	Temperature sensitivity modulation through crystal field engineering in Ga ³⁺ co-doped Gd ₃ Al ₅ -xGa _x O ₁₂ :Cr ³⁺ , Nd ³⁺ nanothermometers. <i>Sensors and Actuators B: Chemical</i> , 2018 , 269, 96-102	8.5	57
122	Giant nonlinear optical responses from photon-avalanching nanoparticles. <i>Nature</i> , 2021 , 589, 230-235	50.4	57
121	The influence of Nd ³⁺ concentration and alkali ions on the sensitivity of non-contact temperature measurements in ALaP ₄ O ₁₂ :Nd ³⁺ (A = Li, K, Na, Rb) nanocrystalline luminescent thermometers. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 11284-11290	7.1	56
120	Structural and luminescent properties of nano-sized NaGdF ₄ :Eu ³⁺ synthesised by wet-chemistry route. <i>Journal of Alloys and Compounds</i> , 2004 , 380, 315-320	5.7	54
119	Laser induced white lighting of graphene foam. <i>Scientific Reports</i> , 2017 , 7, 41281	4.9	51
118	Engineering excited state absorption based nanothermometry for temperature sensing and imaging. <i>Nanoscale</i> , 2020 , 12, 4667-4675	7.7	50
117	Laser operation and Raman self-frequency conversion in Yb:KYW microchip laser. <i>Applied Physics B: Lasers and Optics</i> , 2002 , 75, 795-797	1.9	50
116	The impact of nanocrystals size on luminescent properties and thermometry capabilities of Cr, Nd doped nanophosphors. <i>Sensors and Actuators B: Chemical</i> , 2017 , 238, 381-386	8.5	49
115	Synthesis and luminescence properties of Eu ³⁺ -doped LaAlO ₃ nanocrystals. <i>Journal of Alloys and Compounds</i> , 2006 , 408-412, 828-830	5.7	49
114	Synthesis and spectral properties of colloidal Nd ³⁺ doped NaYF ₄ nanocrystals. <i>Optical Materials</i> , 2011 , 33, 1481-1486	3.3	46
113	Cooperative processes in KYb(WO ₄) ₂ crystal doped with Eu ³⁺ and Tb ³⁺ ions. <i>Journal of Luminescence</i> , 2000 , 87-89, 999-1001	3.8	46

112	NIR/NIR photon avalanche based luminescent thermometry with Nd ³⁺ doped nanoparticles. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 7568-7575	7.1	46
111	The influence of dopant concentration on temperature dependent emission spectra in LiLa _{1-x-y} Eu _x Tb _y P ₄ O ₁₂ nanocrystals: toward rational design of highly-sensitive luminescent nanothermometers. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 15584-92	3.6	43
110	Luminescence based temperature bio-imaging: Status, challenges, and perspectives. <i>Applied Physics Reviews</i> , 2021 , 8, 011317	17.3	42
109	Giant enhancement of upconversion in ultra-small Er ³⁺ /Yb ³⁺ :NaYF ₄ nanoparticles via laser annealing. <i>Nanotechnology</i> , 2012 , 23, 145705	3.4	41
108	Shaping Luminescent Properties of Yb and Ho Co-Doped Upconverting Core-Shell [NaYF ₄ Nanoparticles by Dopant Distribution and Spacing. <i>Small</i> , 2017 , 13, 1701635	11	40
107	Polymeric nanocapsules with up-converting nanocrystals cargo make ideal fluorescent bioprobes. <i>Scientific Reports</i> , 2016 , 6, 29746	4.9	37
106	Phosphor-Assisted Temperature Sensing and Imaging Using Resonant and Nonresonant Photoexcitation Scheme. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43081-43089	9.5	37
105	Water dispersible LiNdP ₄ O ₁₂ nanocrystals: New multifunctional NIR/NIR luminescent materials for bio-applications. <i>Journal of Luminescence</i> , 2016 , 176, 144-148	3.8	37
104	Spectral properties of Eu ³⁺ doped NaGdF ₄ nanocrystals. <i>Journal of Luminescence</i> , 2005 , 114, 247-254	3.8	36
103	Bright upconversion emission of Nd ³⁺ in LiLa _{1-x} Nd _x P ₄ O ₁₂ nanocrystalline powders. <i>Optical Materials</i> , 2011 , 33, 1492-1494	3.3	35
102	Laser action in LaAlO ₃ :Nd ³⁺ single crystal. <i>Journal of Applied Physics</i> , 2008 , 103, 043102	2.5	35
101	Structural and luminescent properties of nanostructured KGdF ₄ :Eu ³⁺ synthesised by coprecipitation method. <i>Journal of Alloys and Compounds</i> , 2004 , 380, 321-326	5.7	35
100	Critical Considerations on the Clinical Translation of Upconversion Nanoparticles (UCNPs): Recommendations from the European Upconversion Network (COST Action CM1403). <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801233	10.1	34
99	Role of the sintering temperature and doping level in the structural and spectral properties of Eu-doped nanocrystalline YVO ₄ . <i>Inorganic Chemistry</i> , 2012 , 51, 1180-6	5.1	32
98	Laser-induced hot emission in Nd ³⁺ /Yb ³⁺ YAG nanocrystallite ceramics. <i>Journal Physics D: Applied Physics</i> , 2002 , 35, 2503-2507	3	32
97	Heterodimers made of metal-organic frameworks and upconversion nanoparticles for bioimaging and pH-responsive dual-drug delivery. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 1316-1325	7.3	32
96	Near-Infrared-to-Near-Infrared Excited-State Absorption in LaPO ₄ :Nd ³⁺ Nanoparticles for Luminescent Nanothermometry. <i>ACS Applied Nano Materials</i> , 2020 , 3, 4818-4825	5.6	31
95	Thulium concentration quenching in the up-converting Er ³⁺ /Yb ³⁺ NaYF ₄ colloidal nanocrystals. <i>Optical Materials</i> , 2013 , 35, 1124-1128	3.3	30

94	Luminescence properties of Nd:YAG nanoceramics prepared by low temperature high pressure sintering method. <i>Optical Materials</i> , 2007 , 29, 1244-1251	3.3	30
93	Cytotoxic interactions of bare and coated NaGdF ₄ :Yb(3+):Er(3+) nanoparticles with macrophage and fibroblast cells. <i>Toxicology in Vitro</i> , 2016 , 32, 16-25	3.6	29
92	The effect of pumping power on fluorescence behavior of LiNdP ₄ O ₁₂ nanocrystals. <i>Optical Materials</i> , 2011 , 33, 1097-1101	3.3	29
91	Photon avalanche in lanthanide doped nanoparticles for biomedical applications: super-resolution imaging. <i>Nanoscale Horizons</i> , 2019 , 4, 881-889	10.8	26
90	Energy up-conversion in Tb ³⁺ /Yb ³⁺ co-doped colloidal NaYF ₄ nanocrystals. <i>Journal of Luminescence</i> , 2013 , 140, 103-109	3.8	26
89	Tuning luminescence properties of Eu ³⁺ doped CaAl ₂ O ₄ nanophosphores with Na ⁺ co-doping. <i>Journal of Luminescence</i> , 2013 , 133, 102-109	3.8	26
88	Synthesis and luminescence properties of LiLa _{1-x} Nd _x P ₄ O ₁₂ nanocrystals. <i>Optical Materials</i> , 2010 , 33, 131-135	3.3	26
87	Structure and properties of the KNbW ₂ O ₉ hexagonal bronze doped with Eu ³⁺ ions as an optically active probe. <i>Journal of Alloys and Compounds</i> , 2004 , 380, 248-254	5.7	25
86	Low-temperature synthesis, phonon and luminescence properties of Eu doped Y ₃ Al ₅ O ₁₂ (YAG) nanopowders. <i>Materials Chemistry and Physics</i> , 2014 , 143, 1039-1047	4.4	24
85	Optical properties of Eu and Er doped LaAlO ₃ nanopowders prepared by low-temperature method. <i>Journal of Solid State Chemistry</i> , 2012 , 194, 264-269	3.3	24
84	Tuning red-green-white up-conversion color in nano NaYF ₄ :Er/Yb phosphor. <i>Journal of Rare Earths</i> , 2011 , 29, 1152-1156	3.7	24
83	Enhancing the sensitivity of a Nd,Yb:YVO nanocrystalline luminescent thermometer by host sensitization. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 10532-10539	3.6	23
82	Assessing thermometric performance of Sr ₂ CeO ₄ and Sr ₂ CeO ₄ :Ln ³⁺ (Ln ³⁺ = Sm ³⁺ , Ho ³⁺ , Nd ³⁺ , Yb ³⁺) nanocrystals in spectral and temporal domain. <i>Chemical Engineering Journal</i> , 2020 , 388, 124347	14.7	23
81	Morphology- and size-dependent spectroscopic properties of Eu-doped GdO colloidal nanocrystals. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 2690	2.3	23
80	Efficient up-conversion in KYb _{0.8} Eu _{0.2} (WO ₄) ₂ crystal. <i>Journal of Alloys and Compounds</i> , 2000 , 300-301, 180-183	5.7	23
79	Optical Forces at the Nanoscale: Size and Electrostatic Effects. <i>Nano Letters</i> , 2018 , 18, 602-609	11.5	23
78	Toxicity Mechanism of Low Doses of NaGdF ₄ :Yb,Er Upconverting Nanoparticles in Activated Macrophage Cell Lines. <i>Biomolecules</i> , 2019 , 9,	5.9	22
77	Optical nonlinearities and two-photon excited time-resolved luminescence in colloidal quantum-confined CuInS ₂ /ZnS heterostructures. <i>RSC Advances</i> , 2014 , 4, 34065	3.7	22

76	Size dependence on infrared spectra of NaGdF ₄ nanocrystals. <i>Chemical Physics Letters</i> , 2006 , 418, 75-78	2.5	22
75	Spectroscopic studies of chromium-doped silica sol-gel glasses. <i>Journal of Non-Crystalline Solids</i> , 2001 , 288, 56-65	3.9	21
74	Ligand-dependent luminescence of ultra-small Eu-doped NaYF ₄ nanoparticles. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1707	2.3	20
73	Investigation of Structure, Morphology, and Luminescence Properties in Blue-Red Emitter, Europium-Activated ZnAl ₂ O ₄ Nanospinel. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 3418-3428	2.3	20
72	Synthesis and properties of solution-processed Eu ³⁺ :BaY ₂ F ₈ . <i>Journal of Luminescence</i> , 2005 , 114, 1-8	3.8	20
71	Nd ³⁺ doped TZPN glasses for NIR operating single band ratiometric approach of contactless temperature readout. <i>Journal of Luminescence</i> , 2020 , 224, 117295	3.8	20
70	Tuning of the up-conversion emission and sensitivity of luminescent thermometer in LiLaP ₄ O ₁₂ :Tm,Yb nanocrystals via Eu ³⁺ dopants. <i>Journal of Luminescence</i> , 2017 , 184, 179-184	3.8	19
69	Upconversion emission of LiNdP ₄ O ₁₂ and KNdP ₄ O ₁₂ crystals. <i>Journal of Luminescence</i> , 2013 , 133, 57-60	3.8	18
68	Biofunctionalized upconverting CaF ₂ :Yb,Tm nanoparticles for Candida albicans detection and imaging. <i>Nano Research</i> , 2017 , 10, 3333-3345	10	17
67	Toward Controlled Photothermal Treatment of Single Cell: Optically Induced Heating and Remote Temperature Monitoring In Vitro through Double Wavelength Optical Tweezers. <i>ACS Photonics</i> , 2017 , 4, 1993-2002	6.3	17
66	Third-order nonlinear optical response of CuInS ₂ quantum dots/Bright probes for near-infrared biodetection. <i>Applied Physics Letters</i> , 2013 , 102, 243702	3.4	17
65	The concentration dependent up-conversion luminescence of Ho ³⁺ and Yb ³⁺ co-doped NaYF ₄ . <i>Journal of Luminescence</i> , 2017 , 182, 114-122	3.8	16
64	Single-Cell Biodetection by Upconverting Microspinners. <i>Small</i> , 2019 , 15, e1904154	11	15
63	Influence of Li ⁺ doping on up-conversion and structural properties of Yb ³⁺ /Tm ³⁺ -doped cubic NaYF ₄ nanocrystals. <i>Journal of Luminescence</i> , 2014 , 145, 956-962	3.8	15
62	Synthesis and Optical Properties of Eu ³⁺ Ion Doped Nanocrystalline Hydroxyapatites. <i>Spectroscopy Letters</i> , 2010 , 43, 333-342	1.1	15
61	Blue up-conversion emission in Yb- and Tm-codoped potassium yttrium tungstate. <i>Journal of Applied Physics</i> , 2004 , 95, 7862-7866	2.5	15
60	Synthesis and optical properties of Eu ³⁺ ion doped nanocrystalline hydroxyapatites embedded in PMMA matrix. <i>Journal of Rare Earths</i> , 2011 , 29, 1111-1116	3.7	14
59	Fabrication and optical properties of transparent Nd ³⁺ :YAG nanoceramics. <i>Journal of Luminescence</i> , 2007 , 122-123, 70-73	3.8	13

58	Hot emission in Nd ³⁺ /Yb ³⁺ :YAG nanocrystalline ceramics. <i>Journal of Luminescence</i> , 2003 , 102-103, 438-444	3.4	13
57	Optimisation of ligand exchange towards stable water suspensions of crystalline NaYF ₄ : Er ³⁺ , Yb ³⁺ nanoluminophors. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 1886-91	1.3	12
56	Up-conversion in KYb(WO ₄) ₂ :Pr ³⁺ crystal. <i>Optical Materials</i> , 2002 , 19, 145-148	3.3	12
55	Correlation between the Covalency and the Thermometric Properties of Yb/Er Codoped Nanocrystalline Orthophosphates. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 2659-2665	3.8	12
54	Modulation of the up-converting optical properties of Yb ³⁺ /Tm ³⁺ doped NaYF ₄ nanocrystals with calcium co-doping. <i>Journal of Luminescence</i> , 2016 , 169, 717-721	3.8	11
53	Förster Resonance Energy Transfer-Activated Processes in Smart Nanotheranostics Fabricated in a Sustainable Manner. <i>ChemSusChem</i> , 2019 , 12, 706-719	8.3	11
52	Digital micromirror device as a spatial illuminator for fluorescence lifetime and hyperspectral imaging. <i>Applied Optics</i> , 2008 , 47, 1193-9	1.7	11
51	Modulation of up-conversion luminescence of lanthanide(III) ion co-doped NaYF ₄ nanoparticles using gold nanorods. <i>Optical Materials</i> , 2012 , 34, 1708-1712	3.3	10
50	Energy transfer in diiodoBodipy-grafted upconversion nanohybrids. <i>Nanoscale</i> , 2016 , 8, 204-8	7.7	9
49	Up-converting NaYF ₄ :0.1%Tm ³⁺ , 20%Yb ³⁺ nanoparticles as luminescent labels for deep-tissue optical imaging. <i>Journal of Rare Earths</i> , 2014 , 32, 207-212	3.7	9
48	A comparison of morphology, structure and optical properties of ultrasmall, small and core-shell up-converting NaYF ₄ /NaGdF ₄ nanocrystals co-doped with Tm ³⁺ and Yb ³⁺ ions. <i>Journal of Luminescence</i> , 2013 , 133, 138-144	3.8	9
47	The role of surface related quenching in the single band ratiometric approach based on excited state absorption processes in Nd ³⁺ doped phosphors. <i>Materials Research Bulletin</i> , 2021 , 139, 111288	5.1	9
46	Anomalous decays in Nd ³⁺ doped LaAlO ₃ single crystal. <i>Journal of Physics and Chemistry of Solids</i> , 2015 , 85, 102-105	3.9	8
45	Quantum yield measurements of Yb,Ho co-doped upconverting nanomaterials: The impact of methods, reference materials and concentration. <i>Journal of Luminescence</i> , 2018 , 198, 482-487	3.8	8
44	Comment on A strategy for enhancing the sensitivity of optical thermometers in NaLuF ₄ :Yb ³⁺ /Er ³⁺ nanocrystals. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 4327-4328	7.1	8
43	The susceptibility of anaerobic bacteria isolated from periodontal diseases to photodynamic inactivation with Fotolon (chlorin e6). <i>Polish Journal of Microbiology</i> , 2005 , 54, 305-10	1.8	8
42	Lanthanide-doped heterostructured nanocomposites toward advanced optical anti-counterfeiting and information storage. <i>Light: Science and Applications</i> , 2022 , 11,	16.7	8
41	Global analysis of microscopic fluorescence lifetime images using spectral segmentation and a digital micromirror spatial illuminator. <i>Journal of Biomedical Optics</i> , 2008 , 13, 041316	3.5	7

40	Modulation of thulium upconversion in potassium tetraphosphate (KLaP4O12) nanocrystals by co-doping with Yb3+ ions. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2513-2517	7.1	7
39	Near-infrared excited luminescence and in vitro imaging of HeLa cells by using Mn2+ enhanced Tb3+ and Yb3+ cooperative upconversion in NaYF4 nanocrystals. <i>Nanoscale Advances</i> , 2019 , 1, 3463-3473	5.1	6
38	Bioimaging: Shaping Luminescent Properties of Yb3+ and Ho3+ Co-Doped Upconverting Core-Shell NaYF4 Nanoparticles by Dopant Distribution and Spacing (Small 47/2017). <i>Small</i> , 2017 , 13, 1770246	11	6
37	Optical properties of Nd3+-doped silica fibers obtained by sol-gel method. <i>Journal of Alloys and Compounds</i> , 2000 , 300-301, 459-463	5.7	6
36	Self-Referenced Temperature Imaging with Dual Light Emitting Diode Excitation and Single-Band Emission of AVO4:Eu3+ (A=Y, La, Lu, Gd) Nanophosphors. <i>Advanced Photonics Research</i> , 2021 , 1, 2100139	1.9	6
35	Standardization of Methodology of Light-to-Heat Conversion Efficiency Determination for Colloidal Nanoheaters. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 44556-44567	9.5	6
34	Highly sensitive luminescence nanothermometry and thermal imaging facilitated by phase transition. <i>Chemical Engineering Journal</i> , 2022 , 427, 131941	14.7	6
33	Fluorescent electrospun PMMA microfiber mats with embedded NaYF: Yb/Er upconverting nanoparticles. <i>Methods and Applications in Fluorescence</i> , 2019 , 7, 034002	3.1	5
32	Spectroscopic studies of samarium doped CdF2 crystal. <i>Journal of Alloys and Compounds</i> , 2000 , 300-301, 230-233	5.7	5
31	The influence of Ce3+ codoping and excitation scheme on spectroscopic properties of NaYF4:Yb3+,Ho3+. <i>Journal of Luminescence</i> , 2020 , 226, 117494	3.8	5
30	Enhancing FRET biosensing beyond 10 nm with photon avalanche nanoparticles. <i>Nanoscale Advances</i> , 2020 , 2, 4863-4872	5.1	5
29	The effect of intentional potassium co-doping on the luminescent properties of Yb3+ and Tm3+ doped NaYF4 core and core-shell nanoparticles. <i>Journal of Luminescence</i> , 2016 , 178, 34-42	3.8	4
28	The study of time-resolved collective emission of CuInS2 quantum dots in colloidal solutions. <i>Journal of Optics (United Kingdom)</i> , 2013 , 15, 085303	1.7	4
27	Non-invasive monitoring of cytotoxicity based on kinetic changes of cellular autofluorescence. <i>Toxicology in Vitro</i> , 2011 , 25, 2088-94	3.6	4
26	Impact of host composition and dopant ion concentration on the thermometric properties of a Eu3+ activated fluoride-based single-band ratiometric luminescent thermometer. <i>Journal of Alloys and Compounds</i> , 2021 , 898, 162839	5.7	4
25	NIR luminescence lifetime nanothermometry based on phonon assisted Yb3+-Nd3+ energy transfer. <i>Nanoscale Advances</i> , 2021 , 3, 4918-4925	5.1	4
24	Laser Refrigeration by an Ytterbium-Doped NaYF Microspinner. <i>Small</i> , 2021 , 17, e2103122	11	4
23	Advancements of excited state absorption based luminescence thermometry. <i>Journal of Materials Chemistry C</i> ,	7.1	4

22	Phase Transition-Driven Highly Sensitive, NIR-II Band-Shape Luminescent Thermometer Based on LiYO ₂ :Nd ³⁺ . <i>Advanced Optical Materials</i> , 2102856	8.1	4
21	Spectral properties of Tm doped NaYF ₄ up-converting nanoparticles under single and double photoexcitation wavelengths. <i>Methods and Applications in Fluorescence</i> , 2019 , 7, 034001	3.1	3
20	On spectroscopic properties of the KYb(WO ₄) ₂ :Pr ³⁺ crystal. <i>Molecular Physics</i> , 2003 , 101, 951-960	1.7	3
19	Engineering the Compositional Architecture of Core-Shell Upconverting Lanthanide-Doped Nanoparticles for Optimal Luminescent Donor in Resonance Energy Transfer: The Effects of Energy Migration and Storage.. <i>Small</i> , 2022 , e2200464	11	3
18	Cooperative Processes in Nd ³⁺ /Yb ³⁺ Co-Doped Yag Nanocrystallites. <i>Radiation Effects and Defects in Solids</i> , 2003 , 158, 31-37	0.9	2
17	The crystal-size and power dependence of luminescence properties of Nd ³⁺ :LaAlO ₃ nanopowders 2004 , 5508, 238		2
16	A single-band ratiometric luminescent thermometer based on tetrafluorides operating entirely in the infrared region. <i>Nanoscale Advances</i> ,	5.1	2
15	From structural phase transition to highly sensitive lifetime based luminescent thermometer: multifaceted modification of thermometric performance in Y _{0.9} NdxYb _{0.1} PO ₄ nanocrystals. <i>Journal of Materials Chemistry C</i> ,	7.1	2
14	Synergy between NIR luminescence and thermal emission toward highly sensitive NIR operating emissive thermometry. <i>Scientific Reports</i> , 2020 , 10, 19692	4.9	2
13	Enrichment of hepatocytes in a HepaRG culture using spatially selective photodynamic treatment. <i>Journal of Biomedical Optics</i> , 2010 , 15, 028002	3.5	1
12	Microscopic fluorescence lifetime and hyperspectral imaging with digital micromirror illuminator 2007 ,		1
11	In vitro human atherosclerotic plaque recognition by photosensitizer mono-L-aspartyl chlorin e6 assisted light induced fluorescence (PALIF) 2003 , 5229, 127		1
10	Predicting the impact of temperature dependent multi-phonon relaxation processes on the photon avalanche behavior in Tm ³⁺ : NaYF ₄ nanoparticles. <i>Optical Materials: X</i> , 2021 , 12, 100102	1.7	1
9	Non-plasmonic NIR-Activated Photothermal Agents for Photothermal Therapy 2020 , 305-347		1
8	The influence of the Er ³⁺ dopant concentration in LaPO ₄ :Nd ³⁺ , Er ³⁺ on thermometric properties of ratiometric and kinetic-based luminescent thermometers operating in NIR II and NIR III optical windows. <i>Physica B: Condensed Matter</i> , 2021 , 620, 413247	2.8	1
7	Photon avalanche goes multicolour.. <i>Nature Nanotechnology</i> , 2022 , 17, 440-442	28.7	1
6	A new forum for upconversion research: the UPCON conference. <i>Methods and Applications in Fluorescence</i> , 2019 , 7, 030201	3.1	0
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