

Marcin Runowski

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.

79
papers

1,871
citations

27
h-index

40
g-index

85
ext. papers

2,408
ext. citations

5.5
avg, IF

5.65
L-index

#	Paper	IF	Citations
79	Eu ²⁺ emission from thermally coupled levels [New frontiers for ultrasensitive luminescence thermometry. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 1220-1227	7.1	6
78	Optically active plasmonic cellulose fibers based on Au nanorods for SERS applications.. <i>Carbohydrate Polymers</i> , 2022 , 279, 119010	10.3	2
77	Dual-center thermochromic Bi ₂ MoO ₆ :Yb ³⁺ , Er ³⁺ , Tm ³⁺ phosphors for ultrasensitive luminescence thermometry. <i>Journal of Alloys and Compounds</i> , 2022 , 890, 161830	5.7	12
76	Boltzmann vs. non-Boltzmann (non-linear) thermometry - Yb ³⁺ -Er ³⁺ activated dual-mode thermometer and phase transition sensor via second harmonic generation. <i>Journal of Alloys and Compounds</i> , 2022 , 906, 164329	5.7	1
75	Pressure-driven configurational crossover between 4f ⁷ and 4f ⁶ 5d ¹ States [Giant enhancement of narrow Eu ²⁺ UV-Emission lines in SrB ₄ O ₇ for luminescence manometry. <i>Acta Materialia</i> , 2022 , 231, 117886	8.4	1
74	Pressure-triggered enormous redshift and enhanced emission in Ca ₂ Gd ₈ Si ₆ O ₂₆ :Ce ³⁺ phosphors: Ultrasensitive, thermally-stable and ultrafast response pressure monitoring. <i>Chemical Engineering Journal</i> , 2022 , 443, 136414	14.7	2
73	Functionalization of cellulose fibers and paper with lanthanide-based luminescent core/shell nanoparticles providing 3-level protection for advanced anti-counterfeiting purposes. <i>Materials and Design</i> , 2022 , 218, 110684	8.1	1
72	Tailoring of polychromatic emissions in Tb ³⁺ /Eu ³⁺ codoped NaYbF ₄ nanoparticles via energy transfer strategy for white light-emitting diodes. <i>Materials Today Chemistry</i> , 2022 , 24, 100916	6.2	0
71	Highly-efficient double perovskite Mn ⁴⁺ -activated Gd ₂ ZnTiO ₆ phosphors: A bifunctional optical sensing platform for luminescence thermometry and manometry. <i>Chemical Engineering Journal</i> , 2022 , 446, 136839	14.7	4
70	Stress to distress: Triboluminescence and pressure luminescence of lanthanide diketonates. <i>Chemical Engineering Journal Advances</i> , 2022 , 100326	3.6	
69	Ratiometric Upconversion Temperature Sensor Based on Cellulose Fibers Modified with Yttrium Fluoride Nanoparticles. <i>Nanomaterials</i> , 2022 , 12, 1926	5.4	1
68	Nonlinear Optical Thermometry: A Novel Temperature Sensing Strategy via Second Harmonic Generation (SHG) and Upconversion Luminescence in BaTiO ₃ :Ho ³⁺ ,Yb ³⁺ Perovskite. <i>Advanced Optical Materials</i> , 2021 , 9, 2100386	8.1	10
67	Multiple ratiometric nanothermometry operating with Stark thermally and non-thermally-coupled levels in upconverting Y ₂ MoO ₆ :xEr ³⁺ nanoparticles. <i>Journal of Alloys and Compounds</i> , 2021 , 864, 158891	5.7	6
66	Optical pressure sensing in vacuum and high-pressure ranges using lanthanide-based luminescent thermometermanometer. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 4643-4651	7.1	16
65	NIR emission of lanthanides for ultrasensitive luminescence manometry-Er-activated optical sensor of high pressure. <i>Dalton Transactions</i> , 2021 , 50, 14864-14871	4.3	3
64	Improving performance of luminescent nanothermometers based on non-thermally and thermally coupled levels of lanthanides by modulating laser power. <i>Nanoscale</i> , 2021 , 13, 14139-14146	7.7	6
63	Surface Modification of Luminescent Ln Fluoride Core-Shell Nanoparticles with Acetylsalicylic acid (Aspirin): Synthesis, Spectroscopic and in Vitro Hemocompatibility Studies. <i>ChemMedChem</i> , 2020 , 15, 1490-1496	3.7	3

62	Sr ₂ LuF ₇ :Yb ³⁺ +Ho ³⁺ +Er ³⁺ Upconverting Nanoparticles as Luminescent Thermometers in the First, Second, and Third Biological Windows. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6406-6415	5.6	37
61	Huge enhancement of Sm ²⁺ emission via Eu ²⁺ energy transfer in a SrB ₄ O ₇ pressure sensor. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4810-4817	7.1	18
60	Bifunctional magnetic-upconverting luminescent cellulose fibers for anticounterfeiting purposes. <i>Journal of Alloys and Compounds</i> , 2020 , 829, 154456	5.7	8
59	3,5-Dihydroxy Benzoic Acid-Capped CaF:Tb Nanocrystals as Luminescent Probes for the WO Ion in Aqueous Solution. <i>ACS Omega</i> , 2020 , 5, 4568-4575	3.9	2
58	UV-Vis-NIR absorption spectra of lanthanide oxides and fluorides. <i>Dalton Transactions</i> , 2020 , 49, 2129-2137	4.3	22
57	Optical Vacuum Sensor Based on Lanthanide Upconversion Luminescence Thermometry as a Tool for Ultralow Pressure Sensing. <i>Advanced Materials Technologies</i> , 2020 , 5, 1901091	6.8	60
56	High-pressure luminescence of monoclinic and triclinic GdBO ₃ : Eu ³⁺ . <i>Ceramics International</i> , 2020 , 46, 26368-26376	5.1	5
55	Pressure and temperature optical sensors: luminescence of lanthanide-doped nanomaterials for contactless nanomanometry and nanothermometry 2020 , 227-273		10
54	Influence of matrix on the luminescence properties of Eu ²⁺ /Eu ³⁺ doped strontium borates: SrB ₄ O ₇ , SrB ₂ O ₄ and Sr ₃ (BO ₃) ₂ , exhibiting multicolor tunable emission. <i>Journal of Alloys and Compounds</i> , 2020 , 822, 153511	5.7	7
53	Adenosine capped CaF ₂ :Eu ³⁺ nanocrystals and their applications in permanganate detection. <i>Optical Materials</i> , 2020 , 107, 110048	3.3	2
52	Improving temperature resolution of luminescent nanothermometers working in the near-infrared range using non-thermally coupled levels of Yb ³⁺ & Tm ³⁺ . <i>Journal of Luminescence</i> , 2020 , 228, 117643	3.8	10
51	Luminescent Nd ³⁺ -Based Microresonators Working as Optical Vacuum Sensors. <i>Advanced Optical Materials</i> , 2020 , 8, 2000678	8.1	15
50	Lanthanide Upconverted Luminescence for Simultaneous Contactless Optical Thermometry and Manometry-Sensing under Extreme Conditions of Pressure and Temperature. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40475-40485	9.5	38
49	Er ³⁺ , Yb ³⁺ co-doped Sr ₃ (PO ₄) ₂ phosphors: A ratiometric luminescence thermometer based on Stark levels with tunable sensitivity. <i>Journal of Luminescence</i> , 2020 , 227, 117517	3.8	14
48	Upconversion luminescence in cellulose composites (fibres and paper) modified with lanthanide-doped SrF ₂ nanoparticles. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 11922-11928	7.1	8
47	Luminescent Nanothermometer Operating at Very High Temperature-Sensing up to 1000 K with Upconverting Nanoparticles (Yb/Tm). <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 43933-43941	9.5	48
46	Praseodymium doped YF ₃ :Pr ³⁺ nanoparticles as optical thermometer based on luminescence intensity ratio (LIR) studies in visible and NIR range. <i>Journal of Luminescence</i> , 2019 , 214, 116571	3.8	41
45	Synthesis of highly luminescent nanocomposite LaF ₃ :Ln ³⁺ /Q-dots-CdTe system, exhibiting tunable red-to-green emission. <i>Chemical Papers</i> , 2019 , 73, 2907-2911	1.9	1

44	Luminescent-plasmonic core-shell microspheres, doped with Nd ³⁺ and modified with gold nanoparticles, exhibiting whispering gallery modes and SERS activity. <i>Journal of Rare Earths</i> , 2019 , 37, 1152-1156	3.7	9
43	Tunable yellow-green up-conversion emission and luminescence lifetimes in Yb ³⁺ -Er ³⁺ -Ho ³⁺ multi-doped NaLuF ₄ crystals. <i>Journal of Alloys and Compounds</i> , 2019 , 793, 96-106	5.7	4
42	Upconverting Lanthanide Fluoride Core@Shell Nanorods for Luminescent Thermometry in the First and Second Biological Windows: NaYF ₄ :Yb-Er@SiO ₂ Temperature Sensor. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13389-13396	9.5	114
41	Gold nanorods as a high-pressure sensor of phase transitions and refractive-index gauge. <i>Nanoscale</i> , 2019 , 11, 8718-8726	7.7	22
40	Emission color tuning and phase transition determination based on high-pressure up-conversion luminescence in YVO ₄ : Yb ³⁺ , Er ³⁺ nanoparticles. <i>Journal of Luminescence</i> , 2019 , 209, 321-327	3.8	19
39	Preparation, crystal structure and luminescence properties of a novel single-phase red emitting phosphor CaSr(PO) ₃ :Sm,Li. <i>RSC Advances</i> , 2019 , 9, 4834-4842	3.7	21
38	Modification of cellulose fibers with inorganic luminescent nanoparticles based on lanthanide(III) ions. <i>Carbohydrate Polymers</i> , 2019 , 206, 742-748	10.3	29
37	Optical Pressure Sensor Based on the Emission and Excitation Band Width (fwhm) and Luminescence Shift of Ce-Doped Fluorapatite-High-Pressure Sensing. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4131-4138	9.5	55
36	Multifunctional Optical Sensors for Nanomanometry and Nanothermometry: High-Pressure and High-Temperature Upconversion Luminescence of Lanthanide-Doped Phosphates-LaPO ₄ /YPO:Yb-Tm. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 17269-17279	9.5	157
35	Upconverting lanthanide doped fluoride NaLuF ₄ :Yb ³⁺ -Er ³⁺ -Ho ³⁺ - optical sensor for multi-range fluorescence intensity ratio (FIR) thermometry in visible and NIR regions. <i>Journal of Luminescence</i> , 2018 , 201, 104-109	3.8	69
34	A novel reddish-orange fluorapatite phosphor, La ₆ -Ba ₄ (SiO ₄) ₆ F ₂ : xSm ³⁺ - Structure, luminescence and energy transfer properties. <i>Journal of Alloys and Compounds</i> , 2018 , 757, 79-86	5.7	30
33	Influence of boric acid/Sr ²⁺ ratio on the structure and luminescence properties (colour tuning) of nano-sized, complex strontium borates doped with Sm ²⁺ and Sm ³⁺ ions. <i>Optical Materials</i> , 2018 , 83, 245-251	3.3	8
32	Luminescent-Magnetic Cellulose Fibers, Modified with Lanthanide-Doped Core/Shell Nanostructures. <i>ACS Omega</i> , 2018 , 3, 10383-10390	3.9	19
31	Luminescent-plasmonic, lanthanide-doped core/shell nanomaterials modified with Au nanorods □ Up-conversion luminescence tuning and morphology transformation after NIR laser irradiation. <i>Journal of Alloys and Compounds</i> , 2018 , 762, 621-630	5.7	23
30	Optical pressure nano-sensor based on lanthanide doped SrB ₂ O ₄ :Sm ²⁺ luminescence □ Novel high-pressure nanomanometer. <i>Sensors and Actuators B: Chemical</i> , 2018 , 273, 585-591	8.5	37
29	Color-tunable up-conversion emission of luminescent-plasmonic, core/shell nanomaterials □ KY ₃ F ₁₀ :Yb ³⁺ , Tm ³⁺ /SiO ₂ -NH ₂ /Au. <i>Journal of Luminescence</i> , 2017 , 186, 199-204	3.8	27
28	Luminescent-plasmonic effects in GdPO ₄ :Eu ³⁺ nanorods covered with silver nanoparticles. <i>Journal of Luminescence</i> , 2017 , 188, 24-30	3.8	16
27	Up-conversion green emission of Yb ³⁺ /Er ³⁺ ions doped YVO ₄ nanocrystals obtained via modified Pechini's method. <i>Optical Materials</i> , 2017 , 74, 128-134	3.3	7

26	Lifetime nanomanometry - high-pressure luminescence of up-converting lanthanide nanocrystals - SrF:Yb,Er. <i>Nanoscale</i> , 2017 , 9, 16030-16037	7.7	81
25	Synthesis, surface modification/decoration of luminescent magnetic core/shell nanomaterials, based on the lanthanide doped fluorides (Fe ₃ O ₄ /SiO ₂ /NH ₂ /PAA/LnF ₃). <i>Journal of Luminescence</i> , 2016 , 170, 484-490	3.8	24
24	Effects of Dopant Addition on Lattice and Luminescence Intensity Parameters of Eu(III)-Doped Lanthanum Orthovanadate. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 28497-28508	3.8	41
23	Spectroscopic, structural and in vitro cytotoxicity evaluation of luminescent, lanthanide doped core@shell nanomaterials GdVO ₄ :Eu(3+)5%@SiO ₂ @NH ₂ . <i>Journal of Colloid and Interface Science</i> , 2016 , 481, 245-55	9.3	40
22	Synthesis of lanthanide doped CeF ₃ :Gd ³⁺ , Sm ³⁺ nanoparticles, exhibiting altered luminescence after hydrothermal post-treatment. <i>Journal of Alloys and Compounds</i> , 2016 , 661, 182-189	5.7	33
21	Preparation of Biocompatible, Luminescent-Plasmonic Core/Shell Nanomaterials Based on Lanthanide and Gold Nanoparticles Exhibiting SERS Effects. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 23788-23798	3.8	49
20	Nanocrystalline rare earth fluorides doped with Pr ³⁺ ions. <i>Journal of Rare Earths</i> , 2016 , 34, 802-807	3.7	12
19	Synthesis of luminescent KY ₃ F ₁₀ nanopowder multi-doped with lanthanide ions by a co-precipitation method. <i>Journal of Rare Earths</i> , 2016 , 34, 808-813	3.7	10
18	Synthesis, photophysical analysis, and in vitro cytotoxicity assessment of the multifunctional (magnetic and luminescent) core@shell nanomaterial based on lanthanide-doped orthovanadates. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	16
17	Synthesis, characterization, and cytotoxicity in human erythrocytes of multifunctional, magnetic, and luminescent nanocrystalline rare earth fluorides. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 399	2.3	32
16	Synthesis, structural and spectroscopic studies on GdBO ₃ :Yb ³⁺ /Tb ³⁺ @SiO ₂ core-shell nanostructures. <i>Journal of Rare Earths</i> , 2015 , 33, 1148-1154	3.7	11
15	Semiempirical and DFT computations of the influence of Tb(III) dopant on unit cell dimensions of cerium(III) fluoride. <i>Journal of Computational Chemistry</i> , 2015 , 36, 193-9	3.5	4
14	Eu ³⁺ and Tb ³⁺ doped LaPO ₄ nanorods, modified with a luminescent organic compound, exhibiting tunable multicolour emission. <i>RSC Advances</i> , 2014 , 4, 46305-46312	3.7	42
13	Synthesis and organic surface modification of luminescent, lanthanide-doped core/shell nanomaterials (LnF ₃ @SiO ₂ @NH ₂ @organic acid) for potential bioapplications: spectroscopic, structural, and in vitro cytotoxicity evaluation. <i>Langmuir</i> , 2014 , 30, 9533-43	4	41
12	Nanosized complex fluorides based on Eu ³⁺ doped Sr ₂ LnF ₇ (Ln=La, Gd). <i>Journal of Rare Earths</i> , 2014 , 32, 242-247	3.7	21
11	Facile synthesis, structural and spectroscopic properties of GdF ₃ :Ce ³⁺ , Ln ³⁺ (Ln ³⁺ =Sm ³⁺ , Eu ³⁺ , Tb ³⁺ , Dy ³⁺) nanocrystals with bright multicolor luminescence. <i>Journal of Luminescence</i> , 2014 , 154, 479-486	3.8	42
10	Preparation and photophysical properties of luminescent nanoparticles based on lanthanide doped fluorides (LaF ₃ :Ce ³⁺ , Gd ³⁺ , Eu ³⁺), obtained in the presence of different surfactants. <i>Journal of Alloys and Compounds</i> , 2014 , 597, 63-71	5.7	44
9	Structural, spectroscopic and cytotoxicity studies of TbF@CeF and TbF@CeF@SiO nanocrystals. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1958	2.3	36

8	Core/shell-type nanorods of Tb-doped LaPO ₄ , modified with amine groups, revealing reduced cytotoxicity. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 2068	2.3	42
7	Structural, morphological and spectroscopic properties of Eu ³⁺ -doped rare earth fluorides synthesized by the hydrothermal method. <i>Journal of Solid State Chemistry</i> , 2013 , 200, 76-83	3.3	35
6	Magnetic and luminescent hybrid nanomaterial based on Fe ₃ O ₄ nanocrystals and GdPO ₄ :Eu ³⁺ nanoneedles. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1188	2.3	29
5	Influence of Matrix on the Luminescent and Structural Properties of Glycerine-Capped, Tb ³⁺ -Doped Fluoride Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 17188-17196	3.8	67
4	Unusual solidification and phosphate binding to benzimidazole cations in the presence of water. <i>New Journal of Chemistry</i> , 2012 , 36, 823	3.6	1
3	Bifunctional luminescent and magnetic core/shell type nanostructures Fe ₃ O ₄ @CeF ₃ :Tb ³⁺ /SiO ₂ . <i>Journal of Rare Earths</i> , 2011 , 29, 1117-1122	3.7	18
2	Y ₂ (Ge,Si)O ₅ :Pr phosphors: multimodal temperature and pressure sensors shaped by bandgap management. <i>Journal of Materials Chemistry C</i> ,	7.1	1
1	Tm ²⁺ Activated SrB ₄ O ₇ Bifunctional Sensor of Temperature and Pressure Highly Sensitive, Multi-Parameter Luminescence Thermometry and Manometry. <i>Advanced Optical Materials</i> , 2101507	8.1	9