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List of Publications by Year
in descending order

92 papers	8,136 citations	44069 48 h-index	46799 89 g-index
99 all docs	99 docs citations	99 times ranked	6933 citing authors

#	Article	IF	Citations
1	Boosting the Energy Migration Upconversion through Inter-Shell Energy Transfer in Tb ³⁺ -Doped Sandwich Structured Nanocrystals. CCS Chemistry, 2022, 4, 2031-2042.	7.8	8
2	Polarized upconversion luminescence from a single LiLuF4:Yb3+/Er3+ microcrystal for orientation tracking. Science China Materials, 2022, 65, 220-228.	6.3	16
3	Enhancing Dyeâ€Tripletâ€Sensitized Upconversion Emission Through the Heavyâ€Atom Effect in CsLu₂F₇:Yb/Er Nanoprobes. Angewandte Chemie - International Edition, 2022, 61, .	13.8	24
4	Enhancing Dyeâ€Tripletâ€Sensitized Upconversion Emission Through the Heavyâ€Atom Effect in CsLu₂F₇:Yb/Er Nanoprobes. Angewandte Chemie, 2022, 134, .	2.0	4
5	Boosting the Selfâ€Trapped Exciton Emission in Alloyed Cs₂(Ag/Na)InCl₆ Double Perovskite via Cu⁺ Doping. Advanced Science, 2022, 9, e2103724.	11.2	64
6	Tumorâ€Microenvironmentâ€Responsive Biodegradable Nanoagents Based on Lanthanide Nucleotide Selfâ€Assemblies toward Precise Cancer Therapy. Angewandte Chemie, 2022, 134, .	2.0	1
7	Highly efficient NIR-II luminescent Iâ€“IIIâ€“VI semiconductor nanoprobes based on AgInTe₂:Zn/ZnS nanocrystals. Chemical Communications, 2022, 58, 2204-2207.	4.1	10
8	Tumorâ€Microenvironmentâ€Responsive Biodegradable Nanoagents Based on Lanthanide Nucleotide Selfâ€Assemblies toward Precise Cancer Therapy. Angewandte Chemie - International Edition, 2022, 61, .	13.8	14
9	Thermally boosted upconversion and downshifting luminescence in Sc2(MoO4)3:Yb/Er with two-dimensional negative thermal expansion. Nature Communications, 2022, 13, 2090.	12.8	99
10	Boosting Nearâ€Infrared Luminescence of Lanthanide in Cs₂AgBiCl₆ Double Perovskites via Breakdown of the Local Site Symmetry. Angewandte Chemie - International Edition, 2022, 61, .	13.8	53
11	Boosting Nearâ€Infrared Luminescence of Lanthanide in Cs₂AgBiCl₆ Double Perovskites via Breakdown of the Local Site Symmetry. Angewandte Chemie, 2022, 134, .	2.0	6
12	Ultrasensitive Pointâ€ofâ€Care Test for Tumor Marker in Human Saliva Based on Luminescenceâ€Amplification Strategy of Lanthanide Nanoprobes. Advanced Science, 2021, 8, 2002657.	11.2	20
13	The effect of surface-capping oleic acid on the optical properties of lanthanide-doped nanocrystals. Nanoscale, 2021, 13, 12494-12504.	5.6	8
14	Enhancing multiphoton upconversion emissions through confined energy migration in lanthanide-doped Cs₂NaYF₆ nanoplatelets. Nanoscale, 2021, 13, 9766-9772.	5.6	10
15	Recent advances in design of lanthanide-containing NIR-II luminescent nanoprobes. IScience, 2021, 24, 102062.	4.1	48
16	Colloidal Alloyed Quantum Dots with Enhanced Photoluminescence Quantum Yield in the NIR-II Window. Journal of the American Chemical Society, 2021, 143, 2601-2607.	13.7	118
17	One-Step Transformation from Rofecoxib to a COX-2 NIR Probe for Human Cancer Tissue/Organoid Targeted Bioimaging. ACS Applied Bio Materials, 2021, 4, 2723-2731.	4.6	11
18	Engineering the Bandgap and Surface Structure of CsPbCl₃ Nanocrystals to Achieve Efficient Ultraviolet Luminescence. Angewandte Chemie - International Edition, 2021, 60, 9693-9698.	13.8	32

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19	Engineering the Bandgap and Surface Structure of CsPbCl 3 Nanocrystals to Achieve Efficient Ultraviolet Luminescence. Angewandte Chemie, 2021, 133, 9779-9784.	2.0	2
20	Tailoring the Broadband Emission in Allâ€Inorganic Leadâ€Free 0D Inâ€Based Halides through Sb³⁺ Doping. Advanced Optical Materials, 2021, 9, 2100434.	7.3	56
21	Luminescent nanoâ€bioprobes based on NIR dye/lanthanide nanoparticle composites. Aggregate, 2021, 2, e59.	9.9	24
22	Unusual Temperature Dependence of Bandgap in 2D Inorganic Leadâ€Halide Perovskite Nanoplatelets. Advanced Science, 2021, 8, e2100084.	11.2	23
23	Combined In Situ Spectroscopies Reveal the Ligand Ordering-Modulated Photoluminescence of Upconverting Nanoparticles. Journal of Physical Chemistry C, 2020, 124, 23086-23093.	3.1	6
24	Broadband excitable NIR-II luminescent nano-bioprobes based on CuInSe2 quantum dots for the detection of circulating tumor cells. Nano Today, 2020, 35, 100943.	11.9	57
25	Energy transfer designing in lanthanide-doped upconversion nanoparticles. Chemical Communications, 2020, 56, 15118-15132.	4.1	23
26	In situconfined growth of ultrasmall perovskite quantum dots in metalâ€“organic frameworks and their quantum confinement effect. Nanoscale, 2020, 12, 17113-17120.	5.6	28
27	A Dualâ€Excitation Decoding Strategy Based on NIR Hybrid Nanocomposites for Highâ€Accuracy Thermal Sensing. Advanced Science, 2020, 7, 2001589.	11.2	23
28	Luminescent lanthanide metalâ€“organic framework nanoprobes: from fundamentals to bioapplications. Nanoscale, 2020, 12, 15021-15035.	5.6	65
29	Accurate detection of Î²-hCG in women's serum and cervical secretions for predicting early pregnancy viability based on time-resolved luminescent lanthanide nanoprobes. Nanoscale, 2020, 12, 6729-6735.	5.6	17
30	Revisiting the Luminescence Decay Kinetics of Energy Transfer Upconversion. Journal of Physical Chemistry Letters, 2020, 11, 3672-3680.	4.6	23
31	Multiplexed intracellular detection based on dual-excitation/dual-emission upconversion nanoprobes. Nano Research, 2020, 13, 1955-1961.	10.4	24
32	Grapheneâ€Oxideâ€Modified Lanthanide Nanoprobes for Tumorâ€Targeted Visible/NIRâ€II Luminescence Imaging. Angewandte Chemie - International Edition, 2019, 58, 18981-18986.	13.8	92
33	Lanthanide Metalâ€“Organic Framework Nanoprobes for the In Vitro Detection of Cardiac Disease Markers. ACS Applied Materials & Interfaces, 2019, 11, 43989-43995.	8.0	46
34	Grapheneâ€Oxideâ€Modified Lanthanide Nanoprobes for Tumorâ€Targeted Visible/NIRâ€II Luminescence Imaging. Angewandte Chemie, 2019, 131, 19157-19162.	2.0	12
35	Highly efficient luminescent I-III-VI semiconductor nanoprobes based on template-synthesized CuInS2 nanocrystals. Nano Research, 2019, 12, 1804-1809.	10.4	19
36	Lanthanide-doped near-infrared II luminescent nanoprobes for bioapplications. Science China Materials, 2019, 62, 1071-1086.	6.3	70

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37	Fullâ€Spectrum Persistent Luminescence Tuning Using Allâ€Inorganic Perovskite Quantum Dots. Angewandte Chemie, 2019, 131, 7017-7021.	2.0	13
38	Fullâ€Spectrum Persistent Luminescence Tuning Using Allâ€Inorganic Perovskite Quantum Dots. Angewandte Chemie - International Edition, 2019, 58, 6943-6947.	13.8	106
39	â€œChameleon-likeâ€optical behavior of lanthanide-doped fluoride nanoplates for multilevel anti-counterfeiting applications. Nano Research, 2019, 12, 1417-1422.	10.4	67
40	Unraveling the Electronic Structures of Neodymium in LiLuF₄ Nanocrystals for Ratiometric Temperature Sensing. Advanced Science, 2019, 6, 1802282.	11.2	111
41	Europium-activated luminescent nanoprobes: From fundamentals to bioapplications. Coordination Chemistry Reviews, 2019, 378, 104-120.	18.8	64
42	Lanthanide-doped disordered crystals: Site symmetry and optical properties. Journal of Luminescence, 2018, 201, 255-264.	3.1	63
43	Deciphering molecular interaction of binaphthyl compounds with Penicillium expansum lipase: enantioselectivity and reactivity prediction for lipase. Molecular Systems Design and Engineering, 2018, 3, 658-667.	3.4	1
44	Ultrasensitive detection of cancer biomarker microRNA by amplification of fluorescence of lanthanide nanoprobes. Nano Research, 2018, 11, 264-273.	10.4	62
45	A strategy for accurate detection of glucose in human serum and whole blood based on an upconversion nanoparticles-polydopamine nanosystem. Nano Research, 2018, 11, 3164-3174.	10.4	68
46	Enhancing Antitumor Efficacy by Simultaneous ATPâ€Responsive Chemodrug Release and Cancer Cell Sensitization Based on a Smart Nanoagent. Advanced Science, 2018, 5, 1801201.	11.2	35
47	Large-scale synthesis of uniform lanthanide-doped NaREF₄ upconversion/downshifting nanoprobes for bioapplications. Nanoscale, 2018, 10, 11477-11484.	5.6	84
48	Interfacial Defects Dictated In Situ Fabrication of Yolkâ€“Shell Upconversion Nanoparticles by Electronâ€Beam Irradiation. Advanced Science, 2018, 5, 1800766.	11.2	23
49	Intense near-infrared-II luminescence from NaCeF₄:Er/Yb nanoprobes for in vitro bioassay and in vivo bioimaging. Chemical Science, 2018, 9, 4682-4688.	7.4	145
50	Near-infrared-triggered photon upconversion tuning in all-inorganic cesium lead halide perovskite quantum dots. Nature Communications, 2018, 9, 3462.	12.8	222
51	Cooperative and non-cooperative sensitization upconversion in lanthanide-doped LiYbF₄ nanoparticles. Nanoscale, 2017, 9, 6521-6528.	5.6	64
52	Lanthanide-doped LaOBr nanocrystals: controlled synthesis, optical spectroscopy and bioimaging. Journal of Materials Chemistry B, 2017, 5, 4827-4834.	5.8	19
53	Enhanced reddish-orange emission in NaBa4(BO3)3: Sm3+/Ce3+ phosphors for near-ultraviolet and blue LEDs. Journal of Materials Science, 2017, 52, 9764-9772.	3.7	9
54	Photon upconversion in Yb³⁺â€“Tb³⁺ and Yb³⁺â€“Eu³⁺ activated core/shell nanoparticles with dual-band excitation. Journal of Materials Chemistry C, 2016, 4, 4186-4192.	5.5	52

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55	Near-Infrared Light-Mediated Photodynamic Therapy Nanoplatform by the Electrostatic Assembly of Upconversion Nanoparticles with Graphitic Carbon Nitride Quantum Dots. Inorganic Chemistry, 2016, 55, 10267-10277.	4.0	69
56	Lanthanide-Doped Upconversion Nanoprobes. , 2016, , 237-287.		0
57	Sub-5 nm lanthanide-doped lutetium oxyfluoride nanoprobes for ultrasensitive detection of prostate specific antigen. Chemical Science, 2016, 7, 2572-2578.	7.4	71
58	A facile â€œship-in-a-bottleâ€•approach to construct nanorattles based on upconverting lanthanide-doped fluorides. Nano Research, 2016, 9, 187-197.	10.4	37
59	A New Cubic Phase for a NaYF₄ Host Matrix Offering High Upconversion Luminescence Efficiency. Advanced Materials, 2015, 27, 5528-5533.	21.0	94
60	Multifunctional Nanoâ€Bioprobes Based on Rattleâ€Structured Upconverting Luminescent Nanoparticles. Angewandte Chemie, 2015, 127, 8026-8030.	2.0	14
61	Multifunctional Nanoâ€Bioprobes Based on Rattleâ€Structured Upconverting Luminescent Nanoparticles. Angewandte Chemie - International Edition, 2015, 54, 7915-7919.	13.8	145
62	Single-composition white-emitting NaSrBO₃:Ce³⁺,Sm³⁺,Tb³⁺phosphors for NUV light-emitting diodes. Journal of Materials Chemistry C, 2015, 3, 7286-7293.	5.5	93
63	Time-resolved luminescent biosensing based on inorganic lanthanide-doped nanoprobes. Chemical Communications, 2015, 51, 4129-4143.	4.1	85
64	Inorganic lanthanide nanoprobes for background-free luminescent bioassays. Science China Materials, 2015, 58, 156-177.	6.3	50
65	Plasmon-induced hyperthermia: hybrid upconversion NaYF₄:Yb/Er and gold nanomaterials for oral cancer photothermal therapy. Journal of Materials Chemistry B, 2015, 3, 8293-8302.	5.8	65
66	Lanthanide-doped luminescent nano-bioprobes for the detection of tumor markers. Nanoscale, 2015, 7, 4274-4290.	5.6	101
67	Reply to Comment on â€œBreakdown of Crystallographic Site Symmetry in Lanthanideâ€Doped NaYF₄ Crystalsâ€• Angewandte Chemie - International Edition, 2015, 54, 1077-1078.	13.8	2
68	Lanthanide-doped upconversion nano-bioprobes: electronic structures, optical properties, and biodetection. Chemical Society Reviews, 2015, 44, 1379-1415.	38.1	748
69	Surface Modification Chemistry of Lanthanide-Doped Nanoparticles. Nanomedicine and Nanotoxicology, 2014, , 59-74.	0.2	2
70	Optical Spectroscopy of Lanthanide-Doped Nanoparticles. Nanomedicine and Nanotoxicology, 2014, , 75-123.	0.2	2
71	Luminescent biodetection based on lanthanide-doped inorganic nanoprobes. Coordination Chemistry Reviews, 2014, 273-274, 13-29.	18.8	91
72	Lanthanide-doped Sr₂YF₇nanoparticles: controlled synthesis, optical spectroscopy and biodetection. Nanoscale, 2014, 6, 11098-11105.	5.6	35

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73	Lanthanide-doped upconversion nanoparticles electrostatically coupled with photosensitizers for near-infrared-triggered photodynamic therapy. Nanoscale, 2014, 6, 8274.	5.6	133
74	Lanthanideâ€Doped LiLuF₄ Upconversion Nanoprobes for the Detection of Disease Biomarkers. Angewandte Chemie - International Edition, 2014, 53, 1252-1257.	13.8	397
75	Lanthanide-Doped Luminescent Nanomaterials. Nanomedicine and Nanotoxicology, 2014, , .	0.2	52
76	Dissolutionâ€Enhanced Luminescent Bioassay Based on Inorganic Lanthanide Nanoparticles. Angewandte Chemie - International Edition, 2014, 53, 12498-12502.	13.8	48
77	Lanthanide-doped luminescent materials: Electronic structures, optical properties, and bioapplications. Scientia Sinica Chimica, 2014, 44, 168-179.	0.4	2
78	Lanthanide-doped luminescent nano-bioprobes: from fundamentals to biodetection. Nanoscale, 2013, 5, 1369-1384.	5.6	165
79	Breakdown of Crystallographic Site Symmetry in Lanthanideâ€Doped NaYF₄ Crystals. Angewandte Chemie - International Edition, 2013, 52, 1128-1133.	13.8	220
80	Optical/Magnetic Multimodal Bioprobes Based on Lanthanideâ€Doped Inorganic Nanocrystals. Chemistry - A European Journal, 2013, 19, 5516-5527.	3.3	45
81	Lanthanide-doped luminescent nanoprobes: controlled synthesis, optical spectroscopy, and bioapplications. Chemical Society Reviews, 2013, 42, 6924.	38.1	768
82	Near-Infrared-to-Near-Infrared Downshifting and Near-Infrared-to-Visible Upconverting Luminescence of Er³⁺-Doped In₂O₃ Nanocrystals. Journal of Physical Chemistry C, 2013, 117, 10834-10841.	3.1	48
83	Lanthanide-doped NaScF4 nanoprobes: crystal structure, optical spectroscopy and biodetection. Nanoscale, 2013, 5, 6430.	5.6	74
84	Subâ€10â€…nm Lanthanideâ€Doped CaF₂ Nanoprobes for Timeâ€Resolved Luminescent Biodetection. Angewandte Chemie - International Edition, 2013, 52, 6671-6676.	13.8	185
85	Lanthanide-Doped Inorganic Nanocrystals as Luminescent Biolabels. Combinatorial Chemistry and High Throughput Screening, 2012, 15, 580-594.	1.1	25
86	Amine-Functionalized Lanthanide-Doped Zirconia Nanoparticles: Optical Spectroscopy, Time-Resolved Fluorescence Resonance Energy Transfer Biodetection, and Targeted Imaging. Journal of the American Chemical Society, 2012, 134, 15083-15090.	13.7	221
87	Amine-Functionalized Lanthanide-Doped KGdF₄ Nanocrystals as Potential Optical/Magnetic Multimodal Bioprobes. Journal of the American Chemical Society, 2012, 134, 1323-1330.	13.7	372
88	Visible-to-infrared quantum cutting by phonon-assisted energy transfer in YPO4:Tm3+, Yb3+ phosphors. Physical Chemistry Chemical Physics, 2012, 14, 6974.	2.8	73
89	Controlled synthesis and optical spectroscopy of lanthanide-doped KLaF4 nanocrystals. Nanoscale, 2012, 4, 4485.	5.6	78
90	Timeâ€Resolved FRET Biosensor Based on Amineâ€Functionalized Lanthanideâ€Doped NaYF₄ Nanocrystals. Angewandte Chemie - International Edition, 2011, 50, 6306-6310.	13.8	308

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91	Lanthanideâ€Doped Multicolor GdF₃ Nanocrystals for Timeâ€Resolved Photoluminescent Biodetection. Chemistry - A European Journal, 2011, 17, 8549-8554.	3.3	106
92	A Strategy to Achieve Efficient Dualâ€Mode Luminescence of Eu³⁺ in Lanthanides Doped Multifunctional NaGdF₄ Nanocrystals. Advanced Materials, 2010, 22, 3266-3271.	21.0	566