

Wei Zheng

List of Publications by Year in descending order

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86
papers

5,249
citations

76326

40
h-index

85541

71
g-index

90
all docs

90
docs citations

90
times ranked

5194
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-Band-Tunable White-Light Emission from Bi ³⁺ /Te ⁴⁺ Emitters in Perovskite-Derivative Cs ₂ SnCl ₆ Microcrystals. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	7
2	Boosting the Self-Trapped Exciton Emission in Alloyed Cs ₂ (Ag/Na)InCl ₆ Double Perovskite via Cu ⁺ Doping. <i>Advanced Science</i> , 2022, 9, e2103724.	11.2	64
3	Dual-Band-Tunable White-Light Emission from Bi ³⁺ /Te ⁴⁺ Emitters in Perovskite-Derivative Cs ₂ SnCl ₆ Microcrystals. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	74
4	Single-Atom Tailored Hierarchical Transition Metal Oxide Nanocages for Efficient Lithium Storage. <i>Small</i> , 2022, 18, e2200367.	10.0	6
5	Efficient Near-Infrared Luminescence in Lanthanide-Doped Vacancy-Ordered Double Perovskite Cs ₂ ZrCl ₆ Phosphors via Te ⁴⁺ Sensitization. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	54
6	Efficient Near-Infrared Luminescence in Lanthanide-Doped Vacancy-Ordered Double Perovskite Cs ₂ ZrCl ₆ Phosphors via Te ⁴⁺ Sensitization. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	14
7	Ultrasensitive Point-of-Care Test for Tumor Marker in Human Saliva Based on Luminescence Amplification Strategy of Lanthanide Nanoprobes. <i>Advanced Science</i> , 2021, 8, 2002657.	11.2	20
8	A general strategy <i>via</i> charge transfer sensitization to achieve efficient NIR luminescence in lanthanide-doped NaGdS ₂ nanocrystals. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5148-5153.	5.5	8
9	First-Principles Calculation of Photoelectric Property in Upconversion Materials through In ³⁺ Doping. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 881-890.	5.4	2
10	Gd ₂ O ₃ :Er ³⁺ ,Yb ³⁺ Upconversion Nanoparticle-Based Thermometry for Temperature Monitoring. <i>ACS Applied Nano Materials</i> , 2021, 4, 3922-3931.	5.0	14
11	Ytterbium-Doped CsPbCl ₃ Quantum Cutters for Near-Infrared Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 34561-34571.	8.0	43
12	Tailoring Porous Transition Metal Oxide for High-Performance Lithium Storage. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22435-22445.	3.1	7
13	Upconversion luminescence, and temperature sensing properties of 12CaO·7Al ₂ O ₃ single crystal sensitized with lanthanide ions Er(III) and Yb(III). <i>Talanta</i> , 2020, 207, 120292.	5.5	16
14	Unveiling the Excited-State Dynamics of Mn ²⁺ in 0D Cs ₄ PbCl ₆ Perovskite Nanocrystals. <i>Advanced Science</i> , 2020, 7, 2002210.	11.2	66
15	Energy transfer designing in lanthanide-doped upconversion nanoparticles. <i>Chemical Communications</i> , 2020, 56, 15118-15132.	4.1	23
16	<i>In situ</i> confined growth of ultrasmall perovskite quantum dots in metal-organic frameworks and their quantum confinement effect. <i>Nanoscale</i> , 2020, 12, 17113-17120.	5.6	28
17	A Dual-Excitation Decoding Strategy Based on NIR Hybrid Nanocomposites for High-Accuracy Thermal Sensing. <i>Advanced Science</i> , 2020, 7, 2001589.	11.2	23
18	Efficient Luminescence from CsPbBr ₃ Nanoparticles Embedded in Cs ₄ PbBr ₆ . <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7637-7642.	4.6	29

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19	Warm white broadband emission and tunable long lifetimes in Yb ³⁺ doped Gd ₂ O ₃ nanoparticles. <i>Ceramics International</i> , 2020, 46, 22900-22906.	4.8	4
20	Luminescent lanthanide metal-organic framework nanoprobe: from fundamentals to bioapplications. <i>Nanoscale</i> , 2020, 12, 15021-15035.	5.6	65
21	Low Power High Purity Red Upconversion Emission and Multiple Temperature Sensing Behaviors in Yb ³⁺ , Er ³⁺ Codoped Gd ₂ O ₃ Porous Nanorods. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9578-9588.	6.7	35
22	Accurate detection of hCG in women's serum and cervical secretions for predicting early pregnancy viability based on time-resolved luminescent lanthanide nanoprobe. <i>Nanoscale</i> , 2020, 12, 6729-6735.	5.6	17
23	Near-Infrared Laser-Triggered Full-Color Tuning Photon Upconversion and Intense White Emission in Single Gd ₂ O ₃ Microparticle. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2557-2567.	6.7	13
24	Revisiting the Luminescence Decay Kinetics of Energy Transfer Upconversion. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3672-3680.	4.6	23
25	Mn ²⁺ -activated calcium fluoride nanoprobe for time-resolved photoluminescence biosensing. <i>Science China Materials</i> , 2019, 62, 130-137.	6.3	20
26	High Conductivity and Excitation-Power Sensitivity of Upconversion Emission in Silica Decoration of Regular Hexagonal Yb and Er Codoped ZnO Core-Shell Particles. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 13543-13550.	6.7	2
27	Graphene-Oxide-Modified Lanthanide Nanoprobe for Tumor-Targeted Visible/NIR Luminescence Imaging. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18981-18986.	13.8	92
28	Lanthanide Metal-Organic Framework Nanoprobe for the In Vitro Detection of Cardiac Disease Markers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43989-43995.	8.0	46
29	General Mild Reaction Creates Highly Luminescent Organic-Ligand-Lacking Halide Perovskite Nanocrystals for Efficient Light-Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2019, 141, 15423-15432.	13.7	121
30	Multicolor tunable luminescence and laser-sensitization induced upconversion enhancement in Ln-doped Gd ₂ O ₃ crystals for anti-counterfeiting. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2403-2413.	5.9	23
31	Silica-Coated Ga(III)-Doped ZnO: Yb ³⁺ , Tm ³⁺ Upconversion Nanoparticles for High-Resolution in Vivo Bioimaging using Near-Infrared to Near-Infrared Upconversion Emission. <i>Inorganic Chemistry</i> , 2019, 58, 8230-8236.	4.0	24
32	A New Class of Blue-LED-Excitable NIR Luminescent Nanoprobe Based on Lanthanide-Doped CaS Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9556-9560.	13.8	88
33	Broadband NIR photostimulated luminescence nanoprobe based on CaS:Eu ²⁺ , Sm ³⁺ nanocrystals. <i>Chemical Science</i> , 2019, 10, 5452-5460.	7.4	65
34	A New Class of Blue-LED-Excitable NIR Luminescent Nanoprobe Based on Lanthanide-Doped CaS Nanoparticles. <i>Angewandte Chemie</i> , 2019, 131, 9656-9660.	2.0	6
35	Full-Spectrum Persistent Luminescence Tuning Using All-Inorganic Perovskite Quantum Dots. <i>Angewandte Chemie</i> , 2019, 131, 7017-7021.	2.0	13
36	Full-Spectrum Persistent Luminescence Tuning Using All-Inorganic Perovskite Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6943-6947.	13.8	106

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37	Chameleon-like optical behavior of lanthanide-doped fluoride nanoplates for multilevel anti-counterfeiting applications. <i>Nano Research</i> , 2019, 12, 1417-1422.	10.4	67
38	Unraveling the Electronic Structures of Neodymium in LiLuF ₄ Nanocrystals for Ratiometric Temperature Sensing. <i>Advanced Science</i> , 2019, 6, 1802282.	11.2	111
39	A novel strategy for markedly enhancing the green upconversion emission in Er ³⁺ /Yb ³⁺ co-doped VO ₂ . <i>Journal of Alloys and Compounds</i> , 2019, 791, 593-600.	5.5	14
40	Sub-10 nm lanthanide-doped SrFCl nanoprobcs: Controlled synthesis, optical properties and bioimaging. <i>Journal of Rare Earths</i> , 2019, 37, 691-698.	4.8	6
41	Lower power dependent upconversion multicolor tunable properties in TiO ₂ :Yb ³⁺ /Er ³⁺ (Tm ³⁺). <i>Ceramics International</i> , 2019, 45, 432-438.	4.8	10
42	Europium-activated luminescent nanoprobcs: From fundamentals to bioapplications. <i>Coordination Chemistry Reviews</i> , 2019, 378, 104-120.	18.8	64
43	Effect of silica surface coating on the luminescence lifetime and upconversion temperature sensing properties of semiconductor zinc oxide doped with gallium(III) and sensitized with rare earth ions Yb(III) and Tm(III). <i>Mikrochimica Acta</i> , 2018, 185, 197.	5.0	13
44	Enhancement of the Up-conversion Luminescence of 12CaO·7Al ₂ O ₃ :Tm ³⁺ /Yb ³⁺ Doped with Alkaline Earth Metal Ions. <i>Analytical Letters</i> , 2018, 51, 2085-2098.	1.8	1
45	Color tuning of up-conversion emission in ytterbium, erbium, aluminum tri-doped zinc oxide crystal by adjusting aluminum concentration. <i>Spectroscopy Letters</i> , 2018, 51, 31-36.	1.0	0
46	Lanthanide-doped disordered crystals: Site symmetry and optical properties. <i>Journal of Luminescence</i> , 2018, 201, 255-264.	3.1	63
47	Deciphering molecular interaction of binaphthyl compounds with <i>Penicillium expansum</i> lipase: enantioselectivity and reactivity prediction for lipase. <i>Molecular Systems Design and Engineering</i> , 2018, 3, 658-667.	3.4	1
48	Ultrasensitive detection of cancer biomarker microRNA by amplification of fluorescence of lanthanide nanoprobcs. <i>Nano Research</i> , 2018, 11, 264-273.	10.4	62
49	Upconversion and Phase Transition Characteristics in Erbium(III)- and Ytterbium(III)-Codoped Vanadium(IV) Oxide. <i>Analytical Letters</i> , 2018, 51, 1219-1231.	1.8	0
50	A strategy for accurate detection of glucose in human serum and whole blood based on an upconversion nanoparticles-polydopamine nanosystem. <i>Nano Research</i> , 2018, 11, 3164-3174.	10.4	68
51	Self-assembled three-dimensional architectures of VO ₂ :Yb ³⁺ ,Er ³⁺ controlled synthesis and dual-power dependent luminescence properties. <i>New Journal of Chemistry</i> , 2018, 42, 15436-15443.	2.8	9
52	Ga ³⁺ Doping Induced Simultaneous Size/Shape Control, Enhanced Red Upconversion Luminescence, and Improved X-ray Imaging of ZnO:Yb/Tm for Multifunctional Nanoprobcs. <i>Inorganic Chemistry</i> , 2018, 57, 12166-12173.	4.0	16
53	Large-scale synthesis of uniform lanthanide-doped NaREF ₄ upconversion/downshifting nanoprobcs for bioapplications. <i>Nanoscale</i> , 2018, 10, 11477-11484.	5.6	84
54	Interfacial Defects Dictated In Situ Fabrication of Yolk-Shell Upconversion Nanoprobcs by Electron-Beam Irradiation. <i>Advanced Science</i> , 2018, 5, 1800766.	11.2	23

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55	Near-infrared-triggered photon upconversion tuning in all-inorganic cesium lead halide perovskite quantum dots. <i>Nature Communications</i> , 2018, 9, 3462.	12.8	222
56	Controlling disorder in host lattice by hetero-valence ion doping to manipulate luminescence in spinel solid solution phosphors. <i>Science China Chemistry</i> , 2018, 61, 1624-1629.	8.2	23
57	Influence of Silica Surface Coating on Operated Photodynamic Therapy Property of Yb ³⁺ -Tm ³⁺ : Ga(III)-Doped ZnO Upconversion Nanoparticles. <i>Inorganic Chemistry</i> , 2018, 57, 8012-8018.	4.0	15
58	Cooperative and non-cooperative sensitization upconversion in lanthanide-doped LiYbF ₄ nanoparticles. <i>Nanoscale</i> , 2017, 9, 6521-6528.	5.6	64
59	Rechargeable and LED-activated ZnGa ₂ O ₄ :Cr ³⁺ near-infrared persistent luminescence nanoprobe for background-free biodetection. <i>Nanoscale</i> , 2017, 9, 6846-6853.	5.6	128
60	Lanthanide-doped LaOBr nanocrystals: controlled synthesis, optical spectroscopy and bioimaging. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4827-4834.	5.8	19
61	Plasmonic enhancement and polarization dependence of nonlinear upconversion emissions from single gold nanorod@SiO ₂ @CaF ₂ :Yb ³⁺ ,Er ³⁺ hybrid core-shell satellite nanostructures. <i>Light: Science and Applications</i> , 2017, 6, e16217-e16217.	16.6	155
62	First-Principles Calculation of Phase/Size Characteristic in Yb ³⁺ /Tm ³⁺ /ZnO Upconversion Nanoparticles through Metal Ga ³⁺ Doping. <i>ChemistrySelect</i> , 2017, 2, 4433-4438.	1.5	4
63	Enhancing upconversion luminescence by annealing processes and the high-temperature sensing of ZnO:Yb/Tm nanoparticles. <i>New Journal of Chemistry</i> , 2017, 41, 7116-7122.	2.8	40
64	Autofluorescence-Free Targeted Tumor Imaging Based on Luminous Nanoparticles with Composition-Dependent Size and Persistent Luminescence. <i>ACS Nano</i> , 2017, 11, 8010-8017.	14.6	153
65	One-Dimensional Luminous Nanorods Featuring Tunable Persistent Luminescence for Autofluorescence-Free Biosensing. <i>ACS Nano</i> , 2017, 11, 8185-8191.	14.6	132
66	Lanthanide-Doped Upconversion Nanoprobes. , 2016, , 237-287.		0
67	Ultrasensitive Luminescent In Vitro Detection for Tumor Markers Based on Inorganic Lanthanide Nano-Bioprobes. <i>Advanced Science</i> , 2016, 3, 1600197.	11.2	38
68	Sub-5 nm lanthanide-doped lutetium oxyfluoride nanoprobe for ultrasensitive detection of prostate specific antigen. <i>Chemical Science</i> , 2016, 7, 2572-2578.	7.4	71
69	Persistent luminescence from Eu ³⁺ in SnO ₂ nanoparticles. <i>Nanoscale</i> , 2015, 7, 11048-11054.	5.6	53
70	Time-resolved luminescent biosensing based on inorganic lanthanide-doped nanoprobe. <i>Chemical Communications</i> , 2015, 51, 4129-4143.	4.1	85
71	Inorganic lanthanide nanoprobe for background-free luminescent bioassays. <i>Science China Materials</i> , 2015, 58, 156-177.	6.3	50
72	Plasmon-Modulated Polarized Upconversion Emissions from Single Gold Nanorod-Nanophosphor Hybrid Nanostructures. , 2015, , .		0

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73	Lanthanide-doped luminescent nano-bioprobes for the detection of tumor markers. <i>Nanoscale</i> , 2015, 7, 4274-4290.	5.6	101
74	Reply to Comment on "Breakdown of Crystallographic Site Symmetry in Lanthanide-Doped NaYF ₄ Crystals". <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1077-1078.	13.8	2
75	Lanthanide-doped upconversion nano-bioprobes: electronic structures, optical properties, and biodetection. <i>Chemical Society Reviews</i> , 2015, 44, 1379-1415.	38.1	748
76	A Novel Tumor Targeting Drug Carrier for Optical Imaging and Therapy. <i>Theranostics</i> , 2014, 4, 642-659.	10.0	61
77	Luminescent biodetection based on lanthanide-doped inorganic nanoprobcs. <i>Coordination Chemistry Reviews</i> , 2014, 273-274, 13-29.	18.8	91
78	Lanthanide-doped Sr ₂ YF ₇ nanoparticles: controlled synthesis, optical spectroscopy and biodetection. <i>Nanoscale</i> , 2014, 6, 11098-11105.	5.6	35
79	Lanthanide-doped upconversion nanoparticles electrostatically coupled with photosensitizers for near-infrared-triggered photodynamic therapy. <i>Nanoscale</i> , 2014, 6, 8274.	5.6	133
80	Lanthanide-Doped LiLuF ₄ Upconversion Nanoprobcs for the Detection of Disease Biomarkers. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1252-1257.	13.8	397
81	Dissolution-Enhanced Luminescent Bioassay Based on Inorganic Lanthanide Nanoprobcs. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12498-12502.	13.8	48
82	Lanthanide-doped luminescent materials: Electronic structures, optical properties, and bioapplications. <i>Scientia Sinica Chimica</i> , 2014, 44, 168-179.	0.4	2
83	Lanthanide-doped NaScF ₄ nanoprobcs: crystal structure, optical spectroscopy and biodetection. <i>Nanoscale</i> , 2013, 5, 6430.	5.6	74
84	Sub-100-nm Lanthanide-Doped CaF ₂ Nanoprobcs for Time-Resolved Luminescent Biodetection. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6671-6676.	13.8	185
85	Visible-to-infrared quantum cutting by phonon-assisted energy transfer in YPO ₄ :Tm ³⁺ , Yb ³⁺ phosphors. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6974.	2.8	73
86	Controlled synthesis and optical spectroscopy of lanthanide-doped KLaF ₄ nanocrystals. <i>Nanoscale</i> , 2012, 4, 4485.	5.6	78