

Wei Zheng

List of Publications by Year in descending order

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102
papers

6,169
citations

57719

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all docs

106
docs citations

106
times ranked

6125
citing authors

#	ARTICLE	IF	CITATIONS
1	A new class of luminescent nanoprobes based on main-group Sb ³⁺ emitters. Nano Research, 2022, 15, 179-185.	5.8	19
2	Boosting the Energy Migration Upconversion through Inter-Shell Energy Transfer in Tb ³⁺ -Doped Sandwich Structured Nanocrystals. CCS Chemistry, 2022, 4, 2031-2042.	4.6	8
3	Polarized upconversion luminescence from a single LiLuF ₄ :Yb ³⁺ /Er ³⁺ microcrystal for orientation tracking. Science China Materials, 2022, 65, 220-228.	3.5	16
4	Blue-LED-excitable NIR-II luminescent lanthanide-doped SrS nanoprobes for ratiometric thermal sensing. Science China Materials, 2022, 65, 1094-1102.	3.5	15
5	Dual-Band-Tunable White-Light Emission from Bi ³⁺ /Te ⁴⁺ Emitters in Perovskite-Derivative Cs ₂ SnCl ₆ Microcrystals. Angewandte Chemie, 2022, 134, .	1.6	7
6	Boosting the Self-Trapped Exciton Emission in Alloyed Cs ₂ (Ag/Na)InCl ₆ Double Perovskite via Cu ⁺ Doping. Advanced Science, 2022, 9, e2103724.	5.6	64
7	Dual-Band-Tunable White-Light Emission from Bi ³⁺ /Te ⁴⁺ Emitters in Perovskite-Derivative Cs ₂ SnCl ₆ Microcrystals. Angewandte Chemie - International Edition, 2022, 61, .	7.2	74
8	Polarized Upconversion Luminescence from a Single NaYF ₄ :Yb ³⁺ /Er ³⁺ Microrod for Orientation Tracking. Acta Chimica Sinica, 2022, 80, 244.	0.5	0
9	Highly efficient Sb ³⁺ emitters in 0D cesium indium chloride nanocrystals with switchable photoluminescence through water-triggered structural transformation. Nano Today, 2022, 44, 101460.	6.2	58
10	Efficient Near-Infrared Luminescence in Lanthanide-Doped Vacancy-Ordered Double Perovskite Cs ₂ ZrCl ₆ Phosphors via Te ⁴⁺ Sensitization. Angewandte Chemie - International Edition, 2022, 61, .	7.2	54
11	Efficient Near-Infrared Luminescence in Lanthanide-Doped Vacancy-Ordered Double Perovskite Cs ₂ ZrCl ₆ Phosphors via Te ⁴⁺ Sensitization. Angewandte Chemie, 2022, 134, .	1.6	14
12	Unraveling the triplet excited-state dynamics of Bi ³⁺ in vacancy-ordered double perovskite Cs ₂ SnCl ₆ nanocrystals. Nano Research, 2022, 15, 6422-6429.	5.8	31
13	Ultrasensitive Point-of-Care Test for Tumor Marker in Human Saliva Based on Luminescence Amplification Strategy of Lanthanide Nanoprobes. Advanced Science, 2021, 8, 2002657.	5.6	20
14	Single cell imaging reveals cisplatin regulating interactions between transcription (co)factors and DNA. Chemical Science, 2021, 12, 5419-5429.	3.7	14
15	A general strategy <i>via</i> charge transfer sensitization to achieve efficient NIR luminescence in lanthanide-doped NaGdS ₂ nanocrystals. Journal of Materials Chemistry C, 2021, 9, 5148-5153.	2.7	8
16	First-Principles Calculation of Photoelectric Property in Upconversion Materials through In ³⁺ Doping. Journal of Chemical Information and Modeling, 2021, 61, 881-890.	2.5	2
17	Engineering the Bandgap and Surface Structure of CsPbCl ₃ Nanocrystals to Achieve Efficient Ultraviolet Luminescence. Angewandte Chemie - International Edition, 2021, 60, 9693-9698.	7.2	32
18	Engineering the Bandgap and Surface Structure of CsPbCl ₃ Nanocrystals to Achieve Efficient Ultraviolet Luminescence. Angewandte Chemie, 2021, 133, 9779-9784.	1.6	2

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19	Tailoring the Broadband Emission in All-Inorganic Lead-Free 0D In-Based Halides through Sb ³⁺ Doping. <i>Advanced Optical Materials</i> , 2021, 9, 2100434.	3.6	56
20	Ytterbium-Doped CsPbCl ₃ Quantum Cutters for Near-Infrared Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 34561-34571.	4.0	43
21	Unusual Temperature Dependence of Bandgap in 2D Inorganic Lead-Halide Perovskite Nanoplatelets. <i>Advanced Science</i> , 2021, 8, e2100084.	5.6	23
22	Solution-Grown Chloride Perovskite Crystal of Red Afterglow. <i>Angewandte Chemie</i> , 2021, 133, 24655-24660.	1.6	16
23	Direct photoinduced synthesis of lead halide perovskite nanocrystals and nanocomposites. <i>Nano Today</i> , 2021, 39, 101179.	6.2	22
24	Solution-Grown Chloride Perovskite Crystal of Red Afterglow. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24450-24455.	7.2	57
25	Unveiling the Excited-State Dynamics of Mn ²⁺ in 0D Cs ₄ PbCl ₆ Perovskite Nanocrystals. <i>Advanced Science</i> , 2020, 7, 2002210.	5.6	66
26	Energy transfer designing in lanthanide-doped upconversion nanoparticles. <i>Chemical Communications</i> , 2020, 56, 15118-15132.	2.2	23
27	<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.	2.8	28
28	A Dual-Excitation Decoding Strategy Based on NIR Hybrid Nanocomposites for High-Accuracy Thermal Sensing. <i>Advanced Science</i> , 2020, 7, 2001589.	5.6	23
29	Efficient Luminescence from CsPbBr ₃ Nanoparticles Embedded in Cs ₄ PbBr ₆ . <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7637-7642.	2.1	29
30	Platinum(II) Terpyridine Anticancer Complexes Possessing Multiple Mode of DNA Interaction and EGFR Inhibiting Activity. <i>Frontiers in Chemistry</i> , 2020, 8, 210.	1.8	33
31	Luminescent lanthanide metal-organic framework nanoprobe: from fundamentals to bioapplications. <i>Nanoscale</i> , 2020, 12, 15021-15035.	2.8	65
32	Development of magnetic sensor technologies for point-of-care testing: Fundamentals, methodologies and applications. <i>Sensors and Actuators A: Physical</i> , 2020, 312, 112130.	2.0	32
33	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.	2.8	17
34	Revisiting the Luminescence Decay Kinetics of Energy Transfer Upconversion. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3672-3680.	2.1	23
35	Mn ²⁺ -activated calcium fluoride nanoprobe for time-resolved photoluminescence biosensing. <i>Science China Materials</i> , 2019, 62, 130-137.	3.5	20
36	Graphene-Oxide-Modified Lanthanide Nanoprobe for Tumor-Targeted Visible/NIR Luminescence Imaging. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18981-18986.	7.2	92

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37	Lanthanide Metal-Organic Framework Nanoprobes for the In Vitro Detection of Cardiac Disease Markers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43989-43995.	4.0	46
38	Graphene-Oxide-Modified Lanthanide Nanoprobes for Tumor-Targeted Visible/NIR Luminescence Imaging. <i>Angewandte Chemie</i> , 2019, 131, 19157-19162.	1.6	12
39	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.	6.6	121
40	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.	3.2	23
41	Controlled synthesis and near-infrared upconversion properties of 3D self-assembled NdVO ₄ microcrystals. <i>Ceramics International</i> , 2019, 45, 15406-15411.	2.3	3
42	A New Class of Blue-LED-Excitable NIR Luminescent Nanoprobes Based on Lanthanide-Doped CaS Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9556-9560.	7.2	88
43	Broadband NIR photostimulated luminescence nanoprobes based on CaS:Eu ²⁺ ,Sm ³⁺ nanocrystals. <i>Chemical Science</i> , 2019, 10, 5452-5460.	3.7	65
44	Discovery of Cisplatin Binding to Thymine and Cytosine on a Single-Stranded Oligodeoxynucleotide by High Resolution FT-ICR Mass Spectrometry. <i>Molecules</i> , 2019, 24, 1852.	1.7	20
45	A New Class of Blue-LED-Excitable NIR Luminescent Nanoprobes Based on Lanthanide-Doped CaS Nanoparticles. <i>Angewandte Chemie</i> , 2019, 131, 9656-9660.	1.6	6
46	Full-Spectrum Persistent Luminescence Tuning Using All-Inorganic Perovskite Quantum Dots. <i>Angewandte Chemie</i> , 2019, 131, 7017-7021.	1.6	13
47	Full-Spectrum Persistent Luminescence Tuning Using All-Inorganic Perovskite Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6943-6947.	7.2	106
48	Chameleon-like optical behavior of lanthanide-doped fluoride nanoplates for multilevel anti-counterfeiting applications. <i>Nano Research</i> , 2019, 12, 1417-1422.	5.8	67
49	Unraveling the Electronic Structures of Neodymium in LiLuF ₄ Nanocrystals for Ratiometric Temperature Sensing. <i>Advanced Science</i> , 2019, 6, 1802282.	5.6	111
50	Sub-10 nm lanthanide-doped SrFCl nanoprobes: Controlled synthesis, optical properties and bioimaging. <i>Journal of Rare Earths</i> , 2019, 37, 691-698.	2.5	6
51	Rare earth ion- and transition metal ion-doped inorganic luminescent nanocrystals: from fundamentals to biodetection. <i>Materials Today Nano</i> , 2019, 5, 100031.	2.3	48
52	Mass spectrometric quantification of the binding ratio of metal-based anticancer complexes with protein thiols. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 951-958.	0.7	3
53	Europium-activated luminescent nanoprobes: From fundamentals to bioapplications. <i>Coordination Chemistry Reviews</i> , 2019, 378, 104-120.	9.5	64
54	A Photoactive Platinum(IV) Anticancer Complex Inhibits Thioredoxin Thioredoxin Reductase System Activity by Induced Oxidation of the Protein. <i>Inorganic Chemistry</i> , 2018, 57, 5575-5584.	1.9	24

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55	Lanthanide-doped disordered crystals: Site symmetry and optical properties. <i>Journal of Luminescence</i> , 2018, 201, 255-264.	1.5	63
56	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.	1.7	1
57	Ultrasensitive detection of cancer biomarker microRNA by amplification of fluorescence of lanthanide nanoprobe. <i>Nano Research</i> , 2018, 11, 264-273.	5.8	62
58	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.	5.8	68
59	Ga ³⁺ Doping Induced Simultaneous Size/Shape Control, Enhanced Red Upconversion Luminescence, and Improved X-ray Imaging of ZnO:Yb/Tm for Multifunctional Nanoprobes. <i>Inorganic Chemistry</i> , 2018, 57, 12166-12173.	1.9	16
60	Large-scale synthesis of uniform lanthanide-doped NaREF ₄ upconversion/downshifting nanoprobe for bioapplications. <i>Nanoscale</i> , 2018, 10, 11477-11484.	2.8	84
61	Interfacial Defects Dictated In Situ Fabrication of Yolk-Shell Upconversion Nanoparticles by Electron-Beam Irradiation. <i>Advanced Science</i> , 2018, 5, 1800766.	5.6	23
62	Near-infrared-triggered photon upconversion tuning in all-inorganic cesium lead halide perovskite quantum dots. <i>Nature Communications</i> , 2018, 9, 3462.	5.8	222
63	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.	4.2	23
64	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.	1.9	15
65	Cooperative and non-cooperative sensitization upconversion in lanthanide-doped LiYbF ₄ nanoparticles. <i>Nanoscale</i> , 2017, 9, 6521-6528.	2.8	64
66	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.	2.8	128
67	Lanthanide-doped LaOBr nanocrystals: controlled synthesis, optical spectroscopy and bioimaging. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4827-4834.	2.9	19
68	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.	7.7	155
69	Correlated mass spectrometry and confocal microscopy imaging verifies the dual-targeting action of an organoruthenium anticancer complex. <i>Chemical Communications</i> , 2017, 53, 4136-4139.	2.2	21
70	Autofluorescence-Free Targeted Tumor Imaging Based on Luminous Nanoparticles with Composition-Dependent Size and Persistent Luminescence. <i>ACS Nano</i> , 2017, 11, 8010-8017.	7.3	153
71	Triplex-quadruplex structural scaffold: a new binding structure of aptamer. <i>Scientific Reports</i> , 2017, 7, 15467.	1.6	28
72	One-Dimensional Luminous Nanorods Featuring Tunable Persistent Luminescence for Autofluorescence-Free Biosensing. <i>ACS Nano</i> , 2017, 11, 8185-8191.	7.3	132

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73	Multi-Targeted Anticancer Agents. <i>Current Topics in Medicinal Chemistry</i> , 2017, 17, 3084-3098.	1.0	71
74	A Bis(methylpiperazinylstyryl)phenanthroline as a Fluorescent Ligand for Gd ³⁺ Quadruplexes. <i>Chemistry - A European Journal</i> , 2016, 22, 6037-6047.	1.7	40
75	Synthesis, Characterization, and in Vitro Antitumor Activity of Ruthenium(II) Polypyridyl Complexes Tethering EGFR-Inhibiting 4-Anilinoquinazolines. <i>Inorganic Chemistry</i> , 2016, 55, 4595-4605.	1.9	44
76	Rational design of multi-targeting ruthenium- and platinum-based anticancer complexes. <i>Science China Chemistry</i> , 2016, 59, 1240-1249.	4.2	14
77	Tumor Marker Detection: Ultrasensitive Luminescent In Vitro Detection for Tumor Markers Based on Inorganic Lanthanide Nano-Bioprobes (Adv. Sci. 11/2016). <i>Advanced Science</i> , 2016, 3, .	5.6	0
78	Lanthanide-Doped Upconversion Nanoprobes. , 2016, , 237-287.		0
79	Ultrasensitive Luminescent In Vitro Detection for Tumor Markers Based on Inorganic Lanthanide Nano-Bioprobes. <i>Advanced Science</i> , 2016, 3, 1600197.	5.6	38
80	Sub-5 nm lanthanide-doped lutetium oxyfluoride nanoprobes for ultrasensitive detection of prostate specific antigen. <i>Chemical Science</i> , 2016, 7, 2572-2578.	3.7	71
81	Persistent luminescence from Eu ³⁺ in SnO ₂ nanoparticles. <i>Nanoscale</i> , 2015, 7, 11048-11054.	2.8	53
82	Time-resolved luminescent biosensing based on inorganic lanthanide-doped nanoprobes. <i>Chemical Communications</i> , 2015, 51, 4129-4143.	2.2	85
83	Inorganic lanthanide nanoprobes for background-free luminescent bioassays. <i>Science China Materials</i> , 2015, 58, 156-177.	3.5	50
84	Quantification of bindings of organometallic ruthenium complexes to GST π by mass spectrometry. <i>Journal of Inorganic Biochemistry</i> , 2015, 146, 44-51.	1.5	9
85	Discovery of a dual-targeting organometallic ruthenium complex with high activity inducing early stage apoptosis of cancer cells. <i>Metallomics</i> , 2015, 7, 1573-1583.	1.0	36
86	Plasmon-Modulated Polarized Upconversion Emissions from Single Gold Nanorod-Nanophosphors Hybrid Nanostructures. , 2015, , .		0
87	Lanthanide-doped luminescent nano-bioprobes for the detection of tumor markers. <i>Nanoscale</i> , 2015, 7, 4274-4290.	2.8	101
88	Lanthanide-doped upconversion nano-bioprobes: electronic structures, optical properties, and biodetection. <i>Chemical Society Reviews</i> , 2015, 44, 1379-1415.	18.7	748
89	Luminescent biodetection based on lanthanide-doped inorganic nanoprobes. <i>Coordination Chemistry Reviews</i> , 2014, 273-274, 13-29.	9.5	91
90	Novel ruthenium complexes ligated with 4-anilinoquinazoline derivatives: Synthesis, characterisation and preliminary evaluation of biological activity. <i>European Journal of Medicinal Chemistry</i> , 2014, 77, 110-120.	2.6	21

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91	Lanthanide-doped Sr ₂ YF ₇ nanoparticles: controlled synthesis, optical spectroscopy and biodetection. <i>Nanoscale</i> , 2014, 6, 11098-11105.	2.8	35
92	Lanthanide-doped upconversion nanoparticles electrostatically coupled with photosensitizers for near-infrared-triggered photodynamic therapy. <i>Nanoscale</i> , 2014, 6, 8274.	2.8	133
93	Lanthanide-Doped LiLuF ₄ Upconversion Nanoprobes for the Detection of Disease Biomarkers. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1252-1257.	7.2	397
94	Dissolution-Enhanced Luminescent Bioassay Based on Inorganic Lanthanide Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12498-12502.	7.2	48
95	Lanthanide-doped luminescent materials: Electronic structures, optical properties, and bioapplications. <i>Scientia Sinica Chimica</i> , 2014, 44, 168-179.	0.2	2
96	Lanthanide-doped NaScF ₄ nanoprobes: crystal structure, optical spectroscopy and biodetection. <i>Nanoscale</i> , 2013, 5, 6430.	2.8	74
97	Sub-10-nm Lanthanide-Doped CaF ₂ Nanoprobes for Time-Resolved Luminescent Biodetection. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6671-6676.	7.2	185
98	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.	1.3	73
99	Controlled synthesis and optical spectroscopy of lanthanide-doped KLaF ₄ nanocrystals. <i>Nanoscale</i> , 2012, 4, 4485.	2.8	78
100	Direct chiral separation of caderofloxacin enantiomers by HPLC using a glycoprotein column. <i>Journal of Analytical Chemistry</i> , 2006, 61, 1090-1092.	0.4	6
101	Direct Electrochemistry of Multi-Copper Oxidases at Carbon Nanotubes Noncovalently Functionalized with Cellulose Derivatives. <i>Electroanalysis</i> , 2006, 18, 587-594.	1.5	117
102	Carbon-Nanotube-Based Glucose/O ₂ Biofuel Cells. <i>Advanced Materials</i> , 2006, 18, 2639-2643.	11.1	244