

# Songjun Zeng

## List of Publications by Year in descending order

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85  
papers

5,492  
citations

101384

36  
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79541

73  
g-index

85  
all docs

85  
docs citations

85  
times ranked

6502  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Ultraviolet Photoluminescence of Water-Soluble Self-Passivated Graphene Quantum Dots. ACS Nano, 2012, 6, 5102-5110.	7.3	1,526
2	PEG modified BaGdF <sub>5</sub> :Yb/Er nanoprobe for multi-modal upconversion fluorescent, in vivo X-ray computed tomography and biomagnetic imaging. Biomaterials, 2012, 33, 9232-9238.	5.7	240
3	Theranostic Carbon Dots with Innovative NIR-II Emission for in Vivo Renal-Excreted Optical Imaging and Photothermal Therapy. ACS Applied Materials & Interfaces, 2019, 11, 4737-4744.	4.0	218
4	Simultaneous Realization of Phase/Size Manipulation, Upconversion Luminescence Enhancement, and Blood Vessel Imaging in Multifunctional Nanoprobes Through Transition Metal Mn <sup>2+</sup> Doping. Advanced Functional Materials, 2014, 24, 4051-4059.	7.8	213
5	Non-Invasive Optical Guided Tumor Metastasis/Vessel Imaging by Using Lanthanide Nanoprobe with Enhanced Down-Shifting Emission beyond 1500 nm. ACS Nano, 2019, 13, 248-259.	7.3	183
6	Bi-functional NaLuF <sub>4</sub> :Gd <sup>3+</sup> /Yb <sup>3+</sup> /Tm <sup>3+</sup> nanocrystals: structure controlled synthesis, near-infrared upconversion emission and tunable magnetic properties. Journal of Materials Chemistry, 2012, 22, 9870.	6.7	150
7	Dual-modal upconversion fluorescent/X-ray imaging using ligand-free hexagonal phase NaLuF <sub>4</sub> :Gd/Yb/Er nanorods for blood vessel visualization. Biomaterials, 2014, 35, 2934-2941.	5.7	128
8	Tunable Multicolor Upconversion Emissions and Paramagnetic Property of Monodispersed Bifunctional Lanthanide-Doped NaGdF <sub>4</sub> Nanorods. Journal of Physical Chemistry C, 2011, 115, 20141-20147.	1.5	124
9	NaCeF <sub>4</sub> :Gd,Tb Scintillator as an X-ray Responsive Photosensitizer for Multimodal Imaging-Guided Synchronous Radio/Radiodynamic Therapy. Nano Letters, 2019, 19, 8234-8244.	4.5	121
10	Remarkable NIR Enhancement of Multifunctional Nanoprobes for In Vivo Trimodal Bioimaging and Upconversion Optical/T <sub>2</sub> -Weighted MRI-Guided Small Tumor Diagnosis. Advanced Functional Materials, 2015, 25, 7119-7129.	7.8	115
11	Non-invasive through-skull brain vascular imaging and small tumor diagnosis based on NIR-II emissive lanthanide nanoprobe beyond 1500 nm. Biomaterials, 2018, 171, 153-163.	5.7	108
12	X-ray-Activated Near-Infrared Persistent Luminescent Probe for Deep-Tissue and Renewable in Vivo Bioimaging. ACS Applied Materials & Interfaces, 2017, 9, 22132-22142.	4.0	97
13	Dual-modal fluorescent/magnetic bioprobes based on small sized upconversion nanoparticles of amine-functionalized BaGdF <sub>5</sub> :Yb/Er. Nanoscale, 2012, 4, 5118.	2.8	96
14	Second near-infrared emissive lanthanide complex for fast renal-clearable in vivo optical bioimaging and tiny tumor detection. Biomaterials, 2018, 169, 35-44.	5.7	82
15	Efficient Erbium-Sensitized Core/Shell Nanocrystals for Short Wave Infrared Bioimaging. Advanced Optical Materials, 2018, 6, 1800690.	3.6	80
16	Tumor microenvironment responsive hollow mesoporous Co <sub>9</sub> S <sub>8</sub> @MnO <sub>2</sub> -ICG/DOX intelligent nanoplatform for synergistically enhanced tumor multimodal therapy. Biomaterials, 2020, 262, 120346.	5.7	80
17	Synergistic Dual-Modality in Vivo Upconversion Luminescence/X-ray Imaging and Tracking of Amine-Functionalized NaYbF <sub>4</sub> :Er Nanoprobes. ACS Applied Materials & Interfaces, 2014, 6, 3839-3846.	4.0	79
18	Simultaneous synthesis and amine-functionalization of single-phase BaYF <sub>5</sub> :Yb/Er nanoprobe for dual-modal in vivo upconversion fluorescence and long-lasting X-ray computed tomography imaging. Nanoscale, 2013, 5, 6023.	2.8	76

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19	High uniformity and monodispersity of sodium rare-earth fluoride nanocrystals: controllable synthesis, shape evolution and optical properties. <i>CrystEngComm</i> , 2011, 13, 1384-1390.	1.3	75
20	A 980 nm laser-activated upconverted persistent probe for NIR-to-NIR rechargeable in vivo bioimaging. <i>Nanoscale</i> , 2017, 9, 7276-7283.	2.8	72
21	Endogenous H <sub>2</sub> S-Activated Orthogonal Second Near-Infrared Emissive Nanoprobe for <i>In Situ</i> Ratiometric Fluorescence Imaging of Metformin-Induced Liver Injury. <i>ACS Nano</i> , 2021, 15, 3201-3211.	7.3	67
22	Polydopamine coated multifunctional lanthanide theranostic agent for vascular malformation and tumor vessel imaging beyond 1500 nm and imaging-guided photothermal therapy. <i>Theranostics</i> , 2019, 9, 3866-3878.	4.6	60
23	Highly Uniform Tm <sup>3+</sup> -Doped NaYbF <sub>4</sub> Microtubes: Controlled Synthesis and Intense Ultraviolet Photoluminescence. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10750-10754.	1.5	56
24	Modifying crystal phase, shape, size, optical and magnetic properties of monodispersed multifunctional NaYbF <sub>4</sub> nanocrystals through lanthanide doping. <i>CrystEngComm</i> , 2011, 13, 4276.	1.3	56
25	PEGylated NaLuF <sub>4</sub> : Yb/Er upconversion nanophosphors for <i>in vivo</i> synergistic fluorescence/X-ray bioimaging and long-lasting, real-time tracking. <i>Biomaterials</i> , 2014, 35, 9689-9697.	5.7	55
26	Clearable Shortwave-Infrared-Emitting NaErF <sub>4</sub> Nanoparticles for Noninvasive Dynamic Vascular Imaging. <i>Chemistry of Materials</i> , 2020, 32, 3365-3375.	3.2	53
27	Tri-color upconversion luminescence of Rare earth doped BaTiO <sub>3</sub> nanocrystals and lowered color separation. <i>Optics Express</i> , 2009, 17, 9089.	1.7	49
28	Enhanced upconversion luminescence and single-band red emission of NaErF <sub>4</sub> nanocrystals via Mn <sup>2+</sup> doping. <i>Journal of Alloys and Compounds</i> , 2015, 618, 776-780.	2.8	49
29	Multi-functional NaErF <sub>4</sub> :Yb nanorods: enhanced red upconversion emission, <i>in vitro</i> cell, <i>in vivo</i> X-ray, and T <sub>2</sub> -weighted magnetic resonance imaging. <i>Nanoscale</i> , 2014, 6, 2855-2860.	2.8	47
30	A high performance Sc-based nanoprobe for through-skull fluorescence imaging of brain vessels beyond 1500 nm. <i>Nanoscale</i> , 2018, 10, 9393-9400.	2.8	46
31	Upconversion optical/magnetic resonance imaging-guided small tumor detection and <i>in vivo</i> tri-modal bioimaging based on high-performance luminescent nanorods. <i>Biomaterials</i> , 2017, 115, 90-103.	5.7	45
32	Symmetry-adapted spherical harmonics method for high-resolution 3D single-particle reconstructions. <i>Journal of Structural Biology</i> , 2008, 161, 64-73.	1.3	42
33	Soft X-ray activated NaYF <sub>4</sub> :Gd/Tb scintillating nanorods for <i>in vivo</i> dual-modal X-ray/X-ray-induced optical bioimaging. <i>Nanoscale</i> , 2018, 10, 342-350.	2.8	41
34	808 nm laser-triggered NIR-II emissive rare-earth nanoprobe for small tumor detection and blood vessel imaging. <i>Materials Science and Engineering C</i> , 2019, 100, 260-268.	3.8	40
35	Urchin-like Ce/Tb co-doped GdPO <sub>4</sub> hollow spheres for <i>in vivo</i> luminescence/X-ray bioimaging and drug delivery. <i>Biomaterials Science</i> , 2014, 2, 1404-1411.	2.6	39
36	High quality multi-functional NaErF <sub>4</sub> nanocrystals: structure-controlled synthesis, phase-induced multi-color emissions and tunable magnetic properties. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5520.	2.7	37

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37	High quality polyacrylic acid modified multifunction luminescent nanorods for tri-modality bioimaging, in vivo long-lasting tracking and biodistribution. <i>Nanoscale</i> , 2015, 7, 542-550.	2.8	36
38	Lanthanide doping-facilitated growth of ultrasmall monodisperse Ba <sub>2</sub> LaF <sub>7</sub> nanocrystals with excellent photoluminescence. <i>Journal of Colloid and Interface Science</i> , 2012, 368, 49-55.	5.0	35
39	Endogenous H <sub>2</sub> S-Triggered In Situ Synthesis of NIR-II-Emitting Nanoprobe for In Vivo Intelligently Lighting Up Colorectal Cancer. <i>IScience</i> , 2019, 17, 217-224.	1.9	34
40	Low Dose Soft X-ray Remotely Triggered Lanthanide Nanovaccine for Deep Tissue CO Gas Release and Activation of Systemic Anti-Tumor Immunoresponse. <i>Advanced Science</i> , 2021, 8, e2004391.	5.6	34
41	M <sup>2+</sup> Doping Induced Simultaneous Phase/Size Control and Remarkable Enhanced Upconversion Luminescence of NaLnF <sub>4</sub> Probes for Optical-Guided Tiny Tumor Diagnosis. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601231.	3.9	32
42	Hollow Mesoporous Bi@PEG-FA Nanoshell as a Novel Dual-Stimuli-Responsive Nanocarrier for Synergistic Chemo-Photothermal Cancer Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 31172-31181.	4.0	31
43	Fabrication, formation mechanism and optical properties of novel single-crystal Er <sup>3+</sup> doped NaYbF <sub>4</sub> micro-tubes. <i>Journal of Materials Chemistry</i> , 2010, 20, 2152.	6.7	30
44	Tunable multicolor and white luminescence in Tb <sup>3+</sup> /Dy <sup>3+</sup> /Mn <sup>2+</sup> doped CePO <sub>4</sub> via energy transfer. <i>Journal of Alloys and Compounds</i> , 2015, 637, 489-496.	2.8	30
45	808 nm light triggered lanthanide nanoprobes with enhanced down-shifting emission beyond 1500 nm for imaging-guided resection surgery of tumor and vascular visualization. <i>Theranostics</i> , 2020, 10, 6875-6885.	4.6	30
46	Multifunctional BaYbF <sub>5</sub> : Gd/Er upconversion nanoparticles for in vivo tri-modal upconversion optical, X-ray computed tomography and magnetic resonance imaging. <i>Materials Science and Engineering C</i> , 2017, 75, 510-516.	3.8	29
47	Size-dependent colorimetric visual detection of melamine in milk at 10 ppb level by citrate-stabilized Au nanoparticles. <i>Analytical Methods</i> , 2012, 4, 2499.	1.3	27
48	Hybrid lanthanide nanoparticles as a new class of binary contrast agents for in vivo T <sub>1</sub> /T <sub>2</sub> dual-weighted MRI and synergistic tumor diagnosis. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2715-2722.	2.9	25
49	Upconversion luminescence and magnetic properties of ligand-free monodisperse lanthanide doped BaGdF <sub>5</sub> nanocrystals. <i>Journal of Luminescence</i> , 2011, 131, 2544-2549.	1.5	24
50	A General In Situ Growth Strategy of Designing Theranostic NaLnF <sub>4</sub> @Cu <sub>2</sub> S Nanoplatform for In Vivo NIR-II Optical Imaging Beyond 1500 nm and Photothermal Therapy. <i>Advanced Therapeutics</i> , 2019, 2, 1800153.	1.6	24
51	Low dose soft X-ray-controlled deep-tissue long-lasting NO release of persistent luminescence nanoplatform for gas-sensitized anticancer therapy. <i>Biomaterials</i> , 2020, 263, 120384.	5.7	24
52	<i>In Vivo</i> High-Resolution Bioimaging of Bone Marrow and Fracture Diagnosis Using Lanthanide Nanoprobes with 1525 nm Emission. <i>Nano Letters</i> , 2022, 22, 2691-2701.	4.5	24
53	Sub-10 nm BaLaF <sub>5</sub> :Mn/Yb/Er nanoprobes for dual-modal synergistic in vivo upconversion luminescence and X-ray bioimaging. <i>Journal of Materials Chemistry B</i> , 2014, 2, 6527-6533.	2.9	23
54	A soft X-ray activated lanthanide scintillator for controllable NO release and gas-sensitized cancer therapy. <i>Nanoscale Horizons</i> , 2020, 5, 268-273.	4.1	22

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55	Intense blue photoluminescence of the Tm <sup>3+</sup> /Yb <sup>3+</sup> co-doped single-crystalline hexagonal phase NaYF <sub>4</sub> nanorods. <i>Journal of Alloys and Compounds</i> , 2011, 509, 2540-2543.	2.8	20
56	One-pot synthesis of PEG modified BaLuF <sub>5</sub> :Gd/Yb/Er nanoprobcs for dual-modal in vivo upconversion luminescence and X-ray bioimaging. <i>Dalton Transactions</i> , 2014, 43, 13343-13348.	1.6	20
57	Tunable multicolor upconversion luminescence and paramagnetic property of the lanthanide doped fluorescent/magnetic bi-function NaYbF <sub>4</sub> microtubes. <i>Journal of Alloys and Compounds</i> , 2014, 589, 502-506.	2.8	20
58	NIR-Triggered Theranostic Bi <sub>2</sub> S <sub>3</sub> Light Transducer for On-Demand NO Release and Synergistic Gas/Photothermal Combination Therapy of Tumors. <i>ACS Applied Bio Materials</i> , 2019, 2, 4769-4776.	2.3	20
59	Intelligent Nanotransducer for Deep-Tumor Hypoxia Modulation and Enhanced Dual-Photosensitizer Photodynamic Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 14944-14952.	4.0	19
60	Solvothermal synthesis of monodisperse ultrasmall cubic-structure Ba <sub>2</sub> YbF <sub>7</sub> nanocrystals with intense upconversion. <i>Journal of Alloys and Compounds</i> , 2011, 509, 7943-7947.	2.8	18
61	Short-wave near-infrared emissive GdPO <sub>4</sub> :Nd <sup>3+</sup> theranostic probe for <i>in vivo</i> bioimaging beyond 1300 nm. <i>RSC Advances</i> , 2018, 8, 12832-12840.	1.7	18
62	Soft X-ray Stimulated Lanthanide@MOF Nanoprobe for Amplifying Deep Tissue Synergistic Photodynamic and Antitumor Immunotherapy. <i>Advanced Healthcare Materials</i> , 2021, 10, e2101174.	3.9	17
63	Synthesis and multicolor upconversion of Tm <sup>3+</sup> /Er <sup>3+</sup> /Yb <sup>3+</sup> doped Na (Y <sub>1.5</sub> Na <sub>0.5</sub> ) F <sub>6</sub> single-crystal nanorods. <i>Journal of Alloys and Compounds</i> , 2010, 493, 476-480.	2.8	16
64	Recent progress on lanthanide scintillators for soft X-ray triggered bioimaging and deep tissue theranostics. <i>View</i> , 2021, 2, 20200122.	2.7	16
65	Computational comparison of the conventional multislice method and the real space multislice method for simulating exit wavefunctions. <i>Micron</i> , 2009, 40, 313-319.	1.1	15
66	Surface ligand-mediated phase and upconversion luminescence tuning of multifunctional NaGdF <sub>4</sub> :Yb/Er materials with paramagnetic and cathodoluminescent characteristics. <i>Optical Materials</i> , 2013, 35, 2691-2697.	1.7	15
67	Identification of the Active Sites in the Methyltransferases of a Transcribing dsRNA Virus. <i>Journal of Molecular Biology</i> , 2014, 426, 2167-2174.	2.0	15
68	Monodispersed LaF <sub>3</sub> nanocrystals: shape-controllable synthesis, excitation-power-dependent multi-color tuning and intense near-infrared upconversion emission. <i>Nanotechnology</i> , 2014, 25, 065703.	1.3	13
69	Controllable multicolor output, white luminescence and cathodoluminescence properties of high quality NaCeF <sub>4</sub> :Ln <sup>3+</sup> (Ln <sup>3+</sup> = Eu <sup>3+</sup> , Dy <sup>3+</sup> , Tb <sup>3+</sup> ) nanorods. <i>RSC Advances</i> , 2014, 4, 49916-49923.	1.7	13
70	A H <sub>2</sub> S-Triggered Dual-Modal Second Near-Infrared/Photoacoustic Intelligent Nanoprobe for Highly Specific Imaging of Colorectal Cancer. <i>Analytical Chemistry</i> , 2021, 93, 13212-13218.	3.2	13
71	<i>In vivo</i> optical bioimaging by using Nd-doped LaF <sub>3</sub> luminescent nanorods in the second near-infrared window. <i>Journal of Rare Earths</i> , 2019, 37, 931-936.	2.5	12
72	Upconversion: Simultaneous Realization of Phase/Size Manipulation, Upconversion Luminescence Enhancement, and Blood Vessel Imaging in Multifunctional Nanoprobcs Through Transition Metal Mn <sup>2+</sup> Doping ( <i>Adv. Funct. Mater.</i> 26/2014). <i>Advanced Functional Materials</i> , 2014, 24, 4196-4196.	7.8	9

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73	Multicolor tuning towards single red-emission band of upconversion nanoparticles for tunable optical component and optical/x-ray imaging agents via Ce <sup>3+</sup> doping. Nanotechnology, 2015, 26, 385702.	1.3	9
74	Sub-10nm lanthanide doped BaLuF5 nanocrystals: Shape controllable synthesis, tunable multicolor emission and enhanced near-infrared upconversion luminescence. Materials Research Bulletin, 2015, 64, 27-32.	2.7	8
75	Hydrothermal Synthesis and Tunable Multicolor Upconversion Emission of Cubic Phase Y <sub>2</sub> O <sub>3</sub> Nanoparticles. Advances in Condensed Matter Physics, 2013, 2013, 1-6.	0.4	6
76	Intense Red Upconversion Emission and Shape Controlled Synthesis of Gd <sub>2</sub> O <sub>3</sub> :Yb/Er Nanocrystals. Advances in Condensed Matter Physics, 2013, 2013, 1-5.	0.4	6
77	Tumor Detection: Remarkable NIR Enhancement of Multifunctional Nanoprobes for In Vivo Trimodal Bioimaging and Upconversion Optical/T2-Weighted MRI-Guided Small Tumor Diagnosis (Adv. Funct. Mater.)	10.784314	108
78	A general strategy for designing NIR-II emissive silk for the in vivo monitoring of an implanted stent model beyond 1500 nm. Journal of Materials Chemistry B, 2020, 8, 4587-4592.	2.9	4
79	Application of Symmetry Adapted Function Method for Three-Dimensional Reconstruction of Octahedral Biological Macromolecules. International Journal of Biomedical Imaging, 2010, 2010, 1-11.	3.0	3
80	A fast reciprocal space method for image simulation. Ultramicroscopy, 2008, 108, 1514-1519.	0.8	2
81	Lanthanide-Based Upconversion Nanoparticles for Bioimaging Applications. , 2020, , 129-153.		1
82	A One-Dimensional Method for Calculating the Exit Wavefunction. Chinese Physics Letters, 2006, 23, 413-416.	1.3	0
83	Three-Dimensional Reconstruction of Icosahedral Virus by Symmetry-Adapted Functions. Chinese Physics Letters, 2007, 24, 1767-1770.	1.3	0
84	Half analytical method with application to the high order Laue zone effects in monoclinic and triclinic crystals. Micron, 2008, 39, 791-796.	1.1	0
85	An Accurate Image Simulation Method for High-Order Laue Zone Effects. Chinese Physics Letters, 2008, 25, 1772-1775.	1.3	0