

Songjun Zeng

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.

84
papers

4,396
citations

32
h-index

65
g-index

85
ext. papers

4,967
ext. citations

7.9
avg, IF

5.77
L-index

#	Paper	IF	Citations
84	Intelligent Nanotransducer for Deep-Tumor Hypoxia Modulation and Enhanced Dual-Photosensitizer Photodynamic Therapy.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	4
83	Recent progress on lanthanide scintillators for soft X-ray-triggered bioimaging and deep-tissue theranostics. <i>View</i> , 2021 , 2, 20200122	7.8	2
82	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	13.6	7
81	Soft X-Ray Stimulated Lanthanide@MOF Nanoprobe for Amplifying Deep Tissue Synergistic Photodynamic and Antitumor Immunotherapy. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2101174	10.1	4
80	A HS-Triggered Dual-Modal Second Near-Infrared/Photoacoustic Intelligent Nanoprobe for Highly Specific Imaging of Colorectal Cancer. <i>Analytical Chemistry</i> , 2021 , 93, 13212-13218	7.8	2
79	Endogenous HS-Activated Orthogonal Second Near-Infrared Emissive Nanoprobe for Ratiometric Fluorescence Imaging of Metformin-Induced Liver Injury. <i>ACS Nano</i> , 2021 , 15, 3201-3211	16.7	28
78	Hollow Mesoporous Bi@PEG-FA Nanoshell as a Novel Dual-Stimuli-Responsive Nanocarrier for Synergistic Chemo-Photothermal Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 31172-31187	9.5	13
77	808 nm light triggered lanthanide nanoprobe 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	12.1	14
76	Clearable Shortwave-Infrared-Emitting NaErF4 Nanoparticles for Noninvasive Dynamic Vascular Imaging. <i>Chemistry of Materials</i> , 2020 , 32, 3365-3375	9.6	25
75	A general strategy for designing NIR-II emissive silk for the in vivo monitoring of an implanted stent model beyond 1500 nm. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 4587-4592	7.3	4
74	Lanthanide-Based Upconversion Nanoparticles for Bioimaging Applications 2020 , 129-153		1
73	Low dose soft X-ray-controlled deep-tissue long-lasting NO release of persistent luminescence nanoplatforam for gas-sensitized anticancer therapy. <i>Biomaterials</i> , 2020 , 263, 120384	15.6	11
72	Tumor microenvironment responsive hollow mesoporous CoS@MnO-ICG/DOX intelligent nanoplatforam for synergistically enhanced tumor multimodal therapy. <i>Biomaterials</i> , 2020 , 262, 120346	15.6	33
71	A soft X-ray activated lanthanide scintillator for controllable NO release and gas-sensitized cancer therapy. <i>Nanoscale Horizons</i> , 2020 , 5, 268-273	10.8	9
70	NaCeF:Gd,Tb Scintillator as an X-ray Responsive Photosensitizer for Multimodal Imaging-Guided Synchronous Radio/Radiodynamic Therapy. <i>Nano Letters</i> , 2019 , 19, 8234-8244	11.5	69
69	NIR-Triggered Theranostic BiS 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	4.1	6
68	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	12.1	35

67	A General In Situ Growth Strategy of Designing Theranostic NaLnF ₄ @Cu ₂ S Nanoplatform for In Vivo NIR-II Optical Imaging Beyond 1500 nm and Photothermal Therapy. <i>Advanced Therapeutics</i> , 2019 , 2, 1800153	4.9	18
66	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	8.3	26
65	In vivo optical bioimaging by using Nd-doped LaF ₃ luminescent nanorods in the second near-infrared window. <i>Journal of Rare Earths</i> , 2019 , 37, 931-936	3.7	5
64	Endogenous HS-Triggered In Situ Synthesis of NIR-II-Emitting Nanoprobe for In Vivo Intelligently Lighting Up Colorectal Cancer. <i>IScience</i> , 2019 , 17, 217-224	6.1	23
63	Non-Invasive Optical Guided Tumor Metastasis/Vessel Imaging by Using Lanthanide Nanoprobe with Enhanced Down-Shifting Emission beyond 1500 nm. <i>ACS Nano</i> , 2019 , 13, 248-259	16.7	129
62	Theranostic Carbon Dots with Innovative NIR-II Emission for in Vivo Renal-Excreted Optical Imaging and Photothermal Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4737-4744	9.5	146
61	A high performance Sc-based nanoprobe for through-skull fluorescence imaging of brain vessels beyond 1500 nm. <i>Nanoscale</i> , 2018 , 10, 9393-9400	7.7	32
60	Non-invasive through-skull brain vascular imaging and small tumor diagnosis based on NIR-II emissive lanthanide nanoprobe beyond 1500 nm. <i>Biomaterials</i> , 2018 , 171, 153-163	15.6	81
59	Second near-infrared emissive lanthanide complex for fast renal-clearable in vivo optical bioimaging and tiny tumor detection. <i>Biomaterials</i> , 2018 , 169, 35-44	15.6	63
58	Short-wave near-infrared emissive GdPO ₃ :Nd theranostic probe for bioimaging beyond 1300 nm.. <i>RSC Advances</i> , 2018 , 8, 12832-12840	3.7	15
57	Efficient Erbium-Sensitized Core/Shell Nanocrystals for Short Wave Infrared Bioimaging. <i>Advanced Optical Materials</i> , 2018 , 6, 1800690	8.1	46
56	Multifunctional BaYbF ₆ : 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	8.3	22
55	M Doping Induced Simultaneous Phase/Size Control and Remarkable Enhanced Upconversion Luminescence of NaLnF ₄ Probes for Optical-Guided Tiny Tumor Diagnosis. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601231	10.1	25
54	A 980 nm laser-activated upconverted persistent probe for NIR-to-NIR rechargeable in vivo bioimaging. <i>Nanoscale</i> , 2017 , 9, 7276-7283	7.7	51
53	X-ray-Activated Near-Infrared Persistent Luminescent Probe for Deep-Tissue and Renewable in Vivo Bioimaging. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22132-22142	9.5	68
52	Upconversion optical/magnetic resonance imaging-guided small tumor detection and in vivo tri-modal bioimaging based on high-performance luminescent nanorods. <i>Biomaterials</i> , 2017 , 115, 90-103	15.6	41
51	Soft X-ray activated NaYF ₄ :Gd/Tb scintillating nanorods for in vivo dual-modal X-ray/X-ray-induced optical bioimaging. <i>Nanoscale</i> , 2017 , 10, 342-350	7.7	24
50	Hybrid lanthanide nanoparticles as a new class of binary contrast agents for in vivo T/T dual-weighted MRI and synergistic tumor diagnosis. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 2715-2722	7.3	22

49	Tunable multicolor and white luminescence in Tb ³⁺ /Dy ³⁺ /Mn ²⁺ doped CePO ₄ via energy transfer. <i>Journal of Alloys and Compounds</i> , 2015 , 637, 489-496	5.7	23
48	Sub-10nm lanthanide doped BaLuF ₅ nanocrystals: Shape controllable synthesis, tunable multicolor emission and enhanced near-infrared upconversion luminescence. <i>Materials Research Bulletin</i> , 2015 , 64, 27-32	5.1	8
47	High quality polyacrylic acid modified multifunction luminescent nanorods for tri-modality bioimaging, in vivo long-lasting tracking and biodistribution. <i>Nanoscale</i> , 2015 , 7, 542-50	7.7	32
46	Enhanced upconversion luminescence and single-band red emission of NaErF ₄ nanocrystals via Mn ²⁺ doping. <i>Journal of Alloys and Compounds</i> , 2015 , 618, 776-780	5.7	43
45	Tumor Detection: Remarkable NIR Enhancement of Multifunctional Nanoprobes for In Vivo Trimodal Bioimaging and Upconversion Optical/T ₂ -Weighted MRI-Guided Small Tumor Diagnosis (Adv. Funct. Mater. 46/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 7102-7102	15.6	5
44	Remarkable NIR Enhancement of Multifunctional Nanoprobes for In Vivo Trimodal Bioimaging and Upconversion Optical/T ₂ -Weighted MRI-Guided Small Tumor Diagnosis. <i>Advanced Functional Materials</i> , 2015 , 25, 7119-7129	15.6	106
43	Multicolor tuning towards single red-emission band of upconversion nanoparticles for tunable optical component and optical/x-ray imaging agents via Ce(3+) doping. <i>Nanotechnology</i> , 2015 , 26, 385702	3.4	8
42	Simultaneous Realization of Phase/Size Manipulation, Upconversion Luminescence Enhancement, and Blood Vessel Imaging in Multifunctional Nanoprobes Through Transition Metal Mn ²⁺ Doping. <i>Advanced Functional Materials</i> , 2014 , 24, 4051-4059	15.6	190
41	Multi-functional NaErF ₄ :Yb nanorods: enhanced red upconversion emission, in vitro cell, in vivo X-ray, and T ₂ -weighted magnetic resonance imaging. <i>Nanoscale</i> , 2014 , 6, 2855-60	7.7	42
40	Controllable multicolor output, white luminescence and cathodoluminescence properties of high quality NaCeF ₄ :Ln ³⁺ (Ln ³⁺ = Eu ³⁺ , Dy ³⁺ , Tb ³⁺) nanorods. <i>RSC Advances</i> , 2014 , 4, 49916-49923	3.7	13
39	Urchin-like Ce/Tb co-doped GdPO hollow spheres for in vivo luminescence/X-ray bioimaging and drug delivery. <i>Biomaterials Science</i> , 2014 , 2, 1404-1411	7.4	34
38	One-pot synthesis of PEG modified BaLuF ₅ :Gd/Yb/Er nanoprobes for dual-modal in vivo upconversion luminescence and X-ray bioimaging. <i>Dalton Transactions</i> , 2014 , 43, 13343-8	4.3	16
37	PEGylated NaLuF ₄ : Yb/Er upconversion nanophosphors for in vivo synergistic fluorescence/X-ray bioimaging and long-lasting, real-time tracking. <i>Biomaterials</i> , 2014 , 35, 9689-97	15.6	51
36	Synergistic dual-modality in vivo upconversion luminescence/X-ray imaging and tracking of amine-functionalized NaYbF ₄ :Er nanoprobes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3839-46	9.5	70
35	Sub-10 nm BaLaF ₃ :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	7.3	22
34	Tunable multicolor upconversion luminescence and paramagnetic property of the lanthanide doped fluorescent/magnetic bi-function NaYbF ₄ microtubes. <i>Journal of Alloys and Compounds</i> , 2014 , 589, 502-506	5.7	19
33	Dual-modal upconversion fluorescent/X-ray imaging using ligand-free hexagonal phase NaLuF ₄ :Gd/Yb/Er nanorods for blood vessel visualization. <i>Biomaterials</i> , 2014 , 35, 2934-41	15.6	113
32	Monodispersed LaF ₃ nanocrystals: shape-controllable synthesis, excitation-power-dependent multi-color tuning and intense near-infrared upconversion emission. <i>Nanotechnology</i> , 2014 , 25, 065703	3.4	12

31	Upconversion: Simultaneous Realization of Phase/Size Manipulation, Upconversion Luminescence Enhancement, and Blood Vessel Imaging in Multifunctional Nanoprobes Through Transition Metal Mn ²⁺ Doping (Adv. Funct. Mater. 26/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 4196-4196	15.6	9
30	Identification of the active sites in the methyltransferases of a transcribing dsRNA virus. <i>Journal of Molecular Biology</i> , 2014 , 426, 2167-74	6.5	13
29	Surface ligand-mediated phase and upconversion luminescence tuning of multifunctional NaGdF ₄ :Yb/Er materials with paramagnetic and cathodoluminescent characteristics. <i>Optical Materials</i> , 2013 , 35, 2691-2697	3.3	13
28	High quality multi-functional NaErF ₄ nanocrystals: structure-controlled synthesis, phase-induced multi-color emissions and tunable magnetic properties. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 5520	7.1	35
27	Simultaneous synthesis and amine-functionalization of single-phase BaYF ₅ :Yb/Er nanoprobe for dual-modal in vivo upconversion fluorescence and long-lasting X-ray computed tomography imaging. <i>Nanoscale</i> , 2013 , 5, 6023-9	7.7	74
26	Hydrothermal Synthesis and Tunable Multicolor Upconversion Emission of Cubic Phase Y ₂ O ₃ Nanoparticles. <i>Advances in Condensed Matter Physics</i> , 2013 , 2013, 1-6	1	5
25	Intense Red Upconversion Emission and Shape Controlled Synthesis of Gd ₂ O ₃ :Yb/Er Nanocrystals. <i>Advances in Condensed Matter Physics</i> , 2013 , 2013, 1-5	1	4
24	Lanthanide doping-facilitated growth of ultrasmall monodisperse Ba ₂ LaF ₇ nanocrystals with excellent photoluminescence. <i>Journal of Colloid and Interface Science</i> , 2012 , 368, 49-55	9.3	32
23	Dual-modal fluorescent/magnetic bioprobes based on small sized upconversion nanoparticles of amine-functionalized BaGdF ₅ :Yb/Er. <i>Nanoscale</i> , 2012 , 4, 5118-24	7.7	91
22	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	3.2	27
21	Bi-functional NaLuF ₄ :Gd ³⁺ /Yb ³⁺ /Tm ³⁺ nanocrystals: structure controlled synthesis, near-infrared upconversion emission and tunable magnetic properties. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9870		141
20	PEG modified BaGdF ₅ :Yb/Er nanoprobes for multi-modal upconversion fluorescent, in vivo X-ray computed tomography and biomagnetic imaging. <i>Biomaterials</i> , 2012 , 33, 9232-8	15.6	221
19	Deep ultraviolet photoluminescence of water-soluble self-passivated graphene quantum dots. <i>ACS Nano</i> , 2012 , 6, 5102-10	16.7	1323
18	High uniformity and monodispersity of sodium rare-earth fluoride nanocrystals: controllable synthesis, shape evolution and optical properties. <i>CrystEngComm</i> , 2011 , 13, 1384-1390	3.3	66
17	Modifying crystal phase, shape, size, optical and magnetic properties of monodispersed multifunctional NaYbF ₄ nanocrystals through lanthanide doping. <i>CrystEngComm</i> , 2011 , 13, 4276	3.3	55
16	Intense blue photoluminescence of the Tm ³⁺ /Yb ³⁺ co-doped single-crystalline hexagonal phase NaYF ₄ nanorods. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 2540-2543	5.7	18
15	Solvothermal synthesis of monodisperse ultrasmall cubic-structure Ba ₂ YbF ₇ nanocrystals with intense upconversion. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 7943-7947	5.7	17
14	Tunable Multicolor Upconversion Emissions and Paramagnetic Property of Monodispersed Bifunctional Lanthanide-Doped NaGdF ₄ Nanorods. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 20141-20147	3.8	119

13	Upconversion luminescence and magnetic properties of ligand-free monodisperse lanthanide doped BaGdF ₅ nanocrystals. <i>Journal of Luminescence</i> , 2011 , 131, 2544-2549	3.8	21
12	Application of symmetry adapted function method for three-dimensional reconstruction of octahedral biological macromolecules. <i>International Journal of Biomedical Imaging</i> , 2010 , 2010, 195274	5.2	2
11	Highly Uniform Tm ³⁺ -Doped NaYbF ₄ Microtubes: Controlled Synthesis and Intense Ultraviolet Photoluminescence. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10750-10754	3.8	56
10	Synthesis and multicolor upconversion of Tm ³⁺ /Er ³⁺ /Yb ³⁺ doped Na (Y _{1.5} Na _{0.5}) F ₆ single-crystal nanorods. <i>Journal of Alloys and Compounds</i> , 2010 , 493, 476-480	5.7	15
9	Fabrication, formation mechanism and optical properties of novel single-crystal Er ³⁺ doped NaYbF ₄ micro-tubes. <i>Journal of Materials Chemistry</i> , 2010 , 20, 2152		28
8	Computational comparison of the conventional multislice method and the real space multislice method for simulating exit wavefunctions. <i>Micron</i> , 2009 , 40, 313-9	2.3	14
7	Tri-color upconversion luminescence of Rare earth doped BaTiO ₃ nanocrystals and lowered color separation. <i>Optics Express</i> , 2009 , 17, 9089-98	3.3	45
6	Symmetry-adapted spherical harmonics method for high-resolution 3D single-particle reconstructions. <i>Journal of Structural Biology</i> , 2008 , 161, 64-73	3.4	38
5	An Accurate Image Simulation Method for High-Order Laue Zone Effects. <i>Chinese Physics Letters</i> , 2008 , 25, 1772-1775	1.8	
4	A fast reciprocal space method for image simulation. <i>Ultramicroscopy</i> , 2008 , 108, 1514-9	3.1	2
3	Half analytical method with application to the high order Laue zone effects in monoclinic and triclinic crystals. <i>Micron</i> , 2008 , 39, 791-6	2.3	
2	Three-Dimensional Reconstruction of Icosahedral Virus by Symmetry-Adapted Functions. <i>Chinese Physics Letters</i> , 2007 , 24, 1767-1770	1.8	
1	A One-Dimensional Method for Calculating the Exit Wavefunction. <i>Chinese Physics Letters</i> , 2006 , 23, 413-416		486