

Songjun Zeng

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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 | Deep ultraviolet photoluminescence of water-soluble self-passivated graphene quantum dots. <i>ACS Nano</i> , 2012 , 6, 5102-10 | 16.7 | 1323 |
| 83 | PEG modified BaGdF ₄ /Yb/Er nanoprobe for multi-modal upconversion fluorescent, in vivo X-ray computed tomography and biomagnetic imaging. <i>Biomaterials</i> , 2012 , 33, 9232-8 | 15.6 | 221 |
| 82 | 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 |
| 81 | 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 |
| 80 | 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 |
| 79 | 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 |
| 78 | 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 |
| 77 | 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 |
| 76 | 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 |
| 75 | 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 |
| 74 | Non-invasive through-skull brain vascular imaging and small tumor diagnosis based on NIR-II emissive lanthanide nanoprobes beyond 1500 nm. <i>Biomaterials</i> , 2018 , 171, 153-163 | 15.6 | 81 |
| 73 | 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 |
| 72 | 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 |
| 71 | NaCeF ₃ :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 |
| 70 | 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 |
| 69 | 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 |
| 68 | 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 |

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|----|---|------|----|
| 67 | 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 |
| 66 | 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 |
| 65 | 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 |
| 64 | 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 |
| 63 | Efficient Erbium-Sensitized Core/Shell Nanocrystals for Short Wave Infrared Bioimaging. <i>Advanced Optical Materials</i> , 2018 , 6, 1800690 | 8.1 | 46 |
| 62 | 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 |
| 61 | 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 |
| 60 | Multi-functional NaErF ₄ :Yb nanorods: enhanced red upconversion emission, in vitro cell, in vivo X-ray, and T2-weighted magnetic resonance imaging. <i>Nanoscale</i> , 2014 , 6, 2855-60 | 7.7 | 42 |
| 59 | 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 |
| 58 | 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 |
| 57 | 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 |
| 56 | 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 |
| 55 | 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 |
| 54 | Tumor microenvironment responsive hollow mesoporous CoS@MnO-ICG/DOX intelligent nanoplatfor for synergistically enhanced tumor multimodal therapy. <i>Biomaterials</i> , 2020 , 262, 120346 | 15.6 | 33 |
| 53 | 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 |
| 52 | 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 |
| 51 | 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 |
| 50 | 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 |

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|----|--|------|----|
| 49 | 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 |
| 48 | 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 |
| 47 | 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 |
| 46 | M Doping Induced Simultaneous Phase/Size Control and Remarkable Enhanced Upconversion Luminescence of NaLnF Probes for Optical-Guided Tiny Tumor Diagnosis. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601231 | 10.1 | 25 |
| 45 | Clearable Shortwave-Infrared-Emitting NaErF ₄ Nanoparticles for Noninvasive Dynamic Vascular Imaging. <i>Chemistry of Materials</i> , 2020 , 32, 3365-3375 | 9.6 | 25 |
| 44 | Soft X-ray activated NaYF ₃ :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 |
| 43 | 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 |
| 42 | 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 |
| 41 | Multifunctional BaYbF ₇ : 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 |
| 40 | 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 |
| 39 | Sub-10 nm BaLaF:Mn/Yb/Er nanoprobe 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 |
| 38 | 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 |
| 37 | 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 |
| 36 | A General In Situ Growth Strategy of Designing Theranostic NaLnF ₄ @Cu ₂ S Nanoplatfor for In Vivo NIR-II Optical Imaging Beyond 1500 nm and Photothermal Therapy. <i>Advanced Therapeutics</i> , 2019 , 2, 1800153 | 4.9 | 18 |
| 35 | 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 |
| 34 | 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 |
| 33 | One-pot synthesis of PEG modified BaLuF ₇ :Gd/Yb/Er nanoprobe for dual-modal in vivo upconversion luminescence and X-ray bioimaging. <i>Dalton Transactions</i> , 2014 , 43, 13343-8 | 4.3 | 16 |
| 32 | 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 |

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|----|--|------|----|
| 31 | 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 |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 |
| 26 | 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 |
| 25 | 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 |
| 24 | 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 |
| 23 | Low dose soft X-ray-controlled deep-tissue long-lasting NO release of persistent luminescence nanoplateform for gas-sensitized anticancer therapy. <i>Biomaterials</i> , 2020 , 263, 120384 | 15.6 | 11 |
| 22 | 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 |
| 21 | 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 |
| 20 | 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 |
| 19 | 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 |
| 18 | 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 |
| 17 | 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 |
| 16 | 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 |
| 15 | 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 |
| 14 | 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 |

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| 13 | 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 |
| 12 | 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 |
| 11 | 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 |
| 10 | Intelligent Nanotransducer for Deep-Tumor Hypoxia Modulation and Enhanced Dual-Photosensitizer Photodynamic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2022 , | 9.5 | 4 |
| 9 | 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 |
| 8 | A fast reciprocal space method for image simulation. <i>Ultramicroscopy</i> , 2008 , 108, 1514-9 | 3.1 | 2 |
| 7 | Recent progress on lanthanide scintillators for soft X-ray-triggered bioimaging and deep-tissue theranostics. <i>View</i> , 2021 , 2, 20200122 | 7.8 | 2 |
| 6 | 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 |
| 5 | Lanthanide-Based Upconversion Nanoparticles for Bioimaging Applications 2020 , 129-153 | | 1 |
| 4 | An Accurate Image Simulation Method for High-Order Laue Zone Effects. <i>Chinese Physics Letters</i> , 2008 , 25, 1772-1775 | 1.8 | |
| 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 | A One-Dimensional Method for Calculating the Exit Wavefunction. <i>Chinese Physics Letters</i> , 2006 , 23, 413-416 | 4.6 | |
| 1 | Three-Dimensional Reconstruction of Icosahedral Virus by Symmetry-Adapted Functions. <i>Chinese Physics Letters</i> , 2007 , 24, 1767-1770 | 1.8 | |