

Zhigao Yi

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

4,710
citations

182225
30
h-index

175968
55
g-index

55
all docs

55
docs citations

55
times ranked

6035
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Multimodal Tuning of Synaptic Plasticity Using Persistent Luminescent Memitters. <i>Advanced Materials</i> , 2022, 34, e2101895. | 11.1 | 31 |
| 2 | Noninvasive Manipulation of Ion Channels for Neuromodulation and Theranostics. <i>Accounts of Materials Research</i> , 2022, 3, 247-258. | 5.9 | 11 |
| 3 | Self-Adjuvanted Molecular Activator (SeaMac) Nanovaccines Promote Cancer Immunotherapy. <i>Advanced Healthcare Materials</i> , 2021, 10, e2002080. | 3.9 | 20 |
| 4 | High-resolution X-ray luminescence extension imaging. <i>Nature</i> , 2021, 590, 410-415. | 13.7 | 378 |
| 5 | Continuous-wave near-infrared stimulated-emission depletion microscopy using downshifting lanthanide nanoparticles. <i>Nature Nanotechnology</i> , 2021, 16, 975-980. | 15.6 | 50 |
| 6 | Photon upconversion through triplet exciton-mediated energy relay. <i>Nature Communications</i> , 2021, 12, 3704. | 5.8 | 38 |
| 7 | Mapping Drug-Induced Neuropathy through In-Situ Motor Protein Tracking and Machine Learning. <i>Journal of the American Chemical Society</i> , 2021, 143, 14907-14915. | 6.6 | 11 |
| 8 | Upconversion Nanoparticle-Mediated Optogenetics. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1293, 641-657. | 0.8 | 5 |
| 9 | High-Specificity In Vivo Tumor Imaging Using Bioorthogonal NIR-II Nanoparticles. <i>Advanced Materials</i> , 2021, 33, e2102950. | 11.1 | 46 |
| 10 | Driving Neurogenesis in Neural Stem Cells with High Sensitivity Optogenetics. <i>NeuroMolecular Medicine</i> , 2020, 22, 139-149. | 1.8 | 7 |
| 11 | Decoding a Percolation Phase Transition of Water at ~ 330 K with a Nanoparticle Ruler. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6704-6711. | 2.1 | 13 |
| 12 | Lanthanide-doped inorganic nanoparticles turn molecular triplet excitons bright. <i>Nature</i> , 2020, 587, 594-599. | 13.7 | 135 |
| 13 | Lanthanide-Activated Nanoparticles: A Toolbox for Bioimaging, Therapeutics, and Neuromodulation. <i>Accounts of Chemical Research</i> , 2020, 53, 2692-2704. | 7.6 | 123 |
| 14 | Nanotunnels within Poly(3,4-ethylenedioxythiophene)-Carbon Nanotube Composite for Highly Sensitive Neural Interfacing. <i>ACS Nano</i> , 2020, 14, 8059-8073. | 7.3 | 37 |
| 15 | AI-Egen-coupled upconversion nanoparticles eradicate solid tumors through dual-mode ROS activation. <i>Science Advances</i> , 2020, 6, eabb2712. | 4.7 | 100 |
| 16 | Combating the Coronavirus Pandemic: Early Detection, Medical Treatment, and a Concerted Effort by the Global Community. <i>Research</i> , 2020, 2020, 6925296. | 2.8 | 26 |
| 17 | Expanding the Toolbox of Upconversion Nanoparticles for In Vivo Optogenetics and Neuromodulation. <i>Advanced Materials</i> , 2019, 31, e1803474. | 11.1 | 118 |
| 18 | Calcium-Overload-Mediated Tumor Therapy by Calcium Peroxide Nanoparticles. <i>CheM</i> , 2019, 5, 2171-2182. | 5.8 | 288 |

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|----|---|------|-----------|
| 19 | In Vivo Tumor Visualization through MRI Off-On Switching of NaGdF ₄ @CaCO ₃ Nanoconjugates. <i>Advanced Materials</i> , 2019, 31, e1901851. | 11.1 | 79 |
| 20 | Visualization of Intra-neuronal Motor Protein Transport through Upconversion Microscopy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9262-9268. | 7.2 | 52 |
| 21 | Visualization of Intra-neuronal Motor Protein Transport through Upconversion Microscopy. <i>Angewandte Chemie</i> , 2019, 131, 9363-9369. | 1.6 | 34 |
| 22 | Tuning Long-Lived Mn(II) Upconversion Luminescence through Alkaline Earth Metal Doping and Energy Level Tailoring. <i>Advanced Optical Materials</i> , 2019, 7, 1900519. | 3.6 | 24 |
| 23 | Suppression of Defect-Induced Quenching via Chemical Potential Tuning: A Theoretical Solution for Enhancing Lanthanide Luminescence. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11151-11161. | 1.5 | 26 |
| 24 | Dopant-dependent crystallization and photothermal effect of Sb-doped SnO ₂ nanoparticles as stable theranostic nanoagents for tumor ablation. <i>Nanoscale</i> , 2018, 10, 2542-2554. | 2.8 | 43 |
| 25 | All-inorganic perovskite nanocrystal scintillators. <i>Nature</i> , 2018, 561, 88-93. | 13.7 | 1,274 |
| 26 | Multifunctional BaYbF ₅ : 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 |
| 27 | Confining Excitation Energy in Er ³⁺ -Sensitized Upconversion Nanocrystals through Tm ³⁺ -Mediated Transient Energy Trapping. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7605-7609. | 7.2 | 259 |
| 28 | Confining Excitation Energy in Er ³⁺ -Sensitized Upconversion Nanocrystals through Tm ³⁺ -Mediated Transient Energy Trapping. <i>Angewandte Chemie</i> , 2017, 129, 7713-7717. | 1.6 | 56 |
| 29 | Binary temporal upconversion codes of Mn ²⁺ -activated nanoparticles for multilevel anti-counterfeiting. <i>Nature Communications</i> , 2017, 8, 899. | 5.8 | 290 |
| 30 | 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. | 5.7 | 45 |
| 31 | Hybrid lanthanide nanoparticles as a new class of binary contrast agents for in vivo T ₁ /T ₂ dual-weighted MRI and synergistic tumor diagnosis. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2715-2722. | 2.9 | 25 |
| 32 | Tumor Detection: Remarkable NIR Enhancement of Multifunctional Nanoprobes for In Vivo Trimodal Bioimaging and Upconversion Optical/T ₂ -Weighted MRI-Guided Small Tumor Diagnosis (<i>Adv. Funct. Mater.</i>) | 7.8 | 115 |
| 33 | 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. | 7.8 | 115 |
| 34 | 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. | 1.3 | 9 |
| 35 | 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. | 2.8 | 30 |
| 36 | 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. | 2.7 | 8 |

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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 | 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. | 2.8 | 49 |
| 39 | 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. | 1.3 | 13 |
| 40 | Upconversion: Simultaneous Realization of Phase/Size Manipulation, Upconversion Luminescence Enhancement, and Blood Vessel Imaging in Multifunctional Nanoprobes Through Transition Metal Mn ²⁺ Doping (<i>Adv. Funct. Mater.</i> 26/2014). <i>Advanced Functional Materials</i> , 2014, 24, 4196-4196. | 7.8 | 9 |
| 41 | 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. | 7.8 | 213 |
| 42 | 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, 2855-2860. | 2.8 | 47 |
| 43 | 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. | 1.7 | 13 |
| 44 | Urchin-like Ce/Tb co-doped GdPO ₄ hollow spheres for in vivo luminescence/X-ray bioimaging and drug delivery. <i>Biomaterials Science</i> , 2014, 2, 1404-1411. | 2.6 | 39 |
| 45 | 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, 13343-13348. | 1.6 | 20 |
| 46 | 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, 9689-9697. | 5.7 | 55 |
| 47 | Synergistic Dual-Modality <i>in Vivo</i> Upconversion Luminescence/X-ray Imaging and Tracking of Amine-Functionalized NaYbF ₄ :Er Nanoprobes. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 3839-3846. | 4.0 | 79 |
| 48 | Sub-10 nm BaLaF ₅ :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 |
| 49 | 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. | 2.8 | 20 |
| 50 | 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, 2934-2941. | 5.7 | 128 |
| 51 | 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. | 2.7 | 37 |
| 52 | Simultaneous synthesis and amine-functionalization of single-phase BaYF ₅ :Yb/Er nanoprobes for dual-modal in vivo upconversion fluorescence and long-lasting X-ray computed tomography imaging. <i>Nanoscale</i> , 2013, 5, 6023. | 2.8 | 76 |
| 53 | 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. | 0.4 | 6 |
| 54 | 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. | 0.4 | 6 |

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|----|---|-----|-----------|
| 55 | Synthesis, Tunable Multicolor Output, and High Pure Red Upconversion Emission of Lanthanide-Doped Lu ₂ O ₃ Nanosheets. <i>Advances in Condensed Matter Physics</i> , 2013, 2013, 1-6. | 0.4 | 1 |