# Zhigao Yi

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7589638/publications.pdf

Version: 2024-02-01

| 55 | 4,710 | 159585 30 | 155660 55 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 55 | 55 | 55 | 5319 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Multimodal Tuning of Synaptic Plasticity Using Persistent Luminescent Memitters. Advanced Materials, 2022, 34, e2101895. | 21.0 | 31 |
| 2 | Noninvasive Manipulation of Ion Channels for Neuromodulation and Theranostics. Accounts of Materials Research, 2022, 3, 247-258. | 11.7 | 11 |
| 3 | Selfâ€Adjuvanted Molecular Activator (SeaMac) Nanovaccines Promote Cancer Immunotherapy. Advanced Healthcare Materials, 2021, 10, e2002080. | 7.6 | 20 |
| 4 | High-resolution X-ray luminescence extension imaging. Nature, 2021, 590, 410-415. | 27.8 | 378 |
| 5 | Continuous-wave near-infrared stimulated-emission depletion microscopy using downshifting lanthanide nanoparticles. Nature Nanotechnology, 2021, 16, 975-980. | 31.5 | 50 |
| 6 | Photon upconversion through triplet exciton-mediated energy relay. Nature Communications, 2021, 12, 3704. | 12.8 | 38 |
| 7 | Mapping Drug-Induced Neuropathy through In-Situ Motor Protein Tracking and Machine Learning. Journal of the American Chemical Society, 2021, 143, 14907-14915. | 13.7 | 11 |
| 8 | Upconversion Nanoparticle-Mediated Optogenetics. Advances in Experimental Medicine and Biology, 2021, 1293, 641-657. | 1.6 | 5 |
| 9 | Highâ€Specificity In Vivo Tumor Imaging Using Bioorthogonal NIRâ€IIb Nanoparticles. Advanced Materials, 2021, 33, e2102950. | 21.0 | 46 |
| 10 | Driving Neurogenesis in Neural Stem Cells with High Sensitivity Optogenetics. NeuroMolecular Medicine, 2020, 22, 139-149. | 3.4 | 7 |
| 11 | Decoding a Percolation Phase Transition of Water at â¼330 K with a Nanoparticle Ruler. Journal of Physical Chemistry Letters, 2020, 11, 6704-6711. | 4.6 | 13 |
| 12 | Lanthanide-doped inorganic nanoparticles turn molecular triplet excitons bright. Nature, 2020, 587, 594-599. | 27.8 | 135 |
| 13 | Lanthanide-Activated Nanoparticles: A Toolbox for Bioimaging, Therapeutics, and Neuromodulation. Accounts of Chemical Research, 2020, 53, 2692-2704. | 15.6 | 123 |
| 14 | Nanotunnels within Poly(3,4-ethylenedioxythiophene)-Carbon Nanotube Composite for Highly Sensitive Neural Interfacing. ACS Nano, 2020, 14, 8059-8073. | 14.6 | 37 |
| 15 | AIEgen-coupled upconversion nanoparticles eradicate solid tumors through dual-mode ROS activation. Science Advances, 2020, 6, eabb2712. | 10.3 | 100 |
| 16 | Combating the Coronavirus Pandemic: Early Detection, Medical Treatment, and a Concerted Effort by the Global Community. Research, 2020, 2020, 6925296. | 5.7 | 26 |
| 17 | Expanding the Toolbox of Upconversion Nanoparticles for In Vivo Optogenetics and Neuromodulation. Advanced Materials, 2019, 31, e1803474. | 21.0 | 118 |
| 18 | Calcium-Overload-Mediated Tumor Therapy by Calcium Peroxide Nanoparticles. CheM, 2019, 5, 2171-2182. | 11.7 | 288 |

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|---|---|---|---|
| 19 | In Vivo Tumor Visualization through MRI Offâ€On Switching of NaGdF<sub>4</sub>â€“CaCO<sub>3</sub> Nanoconjugates. Advanced Materials, 2019, 31, e1901851. | 21.0 | 79 |
| 20 | Visualization of Intraâ€neuronal Motor Protein Transport through Upconversion Microscopy. Angewandte Chemie - International Edition, 2019, 58, 9262-9268. | 13.8 | 52 |
| 21 | Visualization of Intraâ€neuronal Motor Protein Transport through Upconversion Microscopy. Angewandte Chemie, 2019, 131, 9363-9369. | 2.0 | 34 |
| 22 | Tuning Longâ€Lived Mn(II) Upconversion Luminescence through Alkalineâ€Earth Metal Doping and Energyâ€Level Tailoring. Advanced Optical Materials, 2019, 7, 1900519. | 7.3 | 24 |
| 23 | Suppression of Defect-Induced Quenching via Chemical Potential Tuning: A Theoretical Solution for Enhancing Lanthanide Luminescence. Journal of Physical Chemistry C, 2019, 123, 11151-11161. | 3.1 | 26 |
| 24 | Dopant-dependent crystallization and photothermal effect of Sb-doped SnO<sub>2</sub>nanoparticles as stable theranostic nanoagents for tumor ablation. Nanoscale, 2018, 10, 2542-2554. | 5.6 | 43 |
| 25 | All-inorganic perovskite nanocrystal scintillators. Nature, 2018, 561, 88-93. | 27.8 | 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. Materials Science and Engineering C, 2017, 75, 510-516. | 7.3 | 29 |
| 27 | Confining Excitation Energy in Er<sup>3+</sup>â€Sensitized Upconversion Nanocrystals through Tm<sup>3+</sup>â€Mediated Transient Energy Trapping. Angewandte Chemie - International Edition, 2017, 56, 7605-7609. | 13.8 | 259 |
| 28 | Confining Excitation Energy in Er<sup>3+</sup>â€Sensitized Upconversion Nanocrystals through Tm<sup>3+</sup>â€Mediated Transient Energy Trapping. Angewandte Chemie, 2017, 129, 7713-7717. | 2.0 | 56 |
| 29 | Binary temporal upconversion codes of Mn2+-activated nanoparticles for multilevel anti-counterfeiting. Nature Communications, 2017, 8, 899. | 12.8 | 290 |
| 30 | Upconversion optical/magnetic resonance imaging-guided small tumor detection and inÂvivo tri-modal bioimaging based on high-performance luminescent nanorods. Biomaterials, 2017, 115, 90-103. | 11.4 | 45 |
| 31 | 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. Journal of Materials Chemistry B, 2016, 4, 2715-2722. | 5.8 | 25 |
| 32 | 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.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | | |
| 33 | Remarkable NIR Enhancement of Multifunctional Nanoprobes for In Vivo Trimodal Bioimaging and Upconversion Optical/T<sub>2</sub>â€Weighted MRIâ€Guided Small Tumor Diagnosis. Advanced Functional Materials, 2015, 25, 7119-7129. | 14.9 | 115 |
| 34 | 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. | 2.6 | 9 |
| 35 | Tunable multicolor and white luminescence in Tb3+/Dy3+/Mn2+ doped CePO4 via energy transfer. Journal of Alloys and Compounds, 2015, 637, 489-496. | 5.5 | 30 |
| 36 | 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. | 5.2 | 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. Nanoscale, 2015, 7, 542-550. | 5.6 | 36 |
| 38 | Enhanced upconversion luminescence and single-band red emission of NaErF4 nanocrystals via Mn2+ doping. Journal of Alloys and Compounds, 2015, 618, 776-780. | 5.5 | 49 |
| 39 | Monodispersed LaF<sub>3</sub> nanocrystals: shape-controllable synthesis, excitation-power-dependent multi-color tuning and intense near-infrared upconversion emission. Nanotechnology, 2014, 25, 065703. | 2.6 | 13 |
| 40 | Upconversion: Simultaneous Realization of Phase/Size Manipulation, Upconversion Luminescence Enhancement, and Blood Vessel Imaging in Multifunctional Nanoprobes Through Transition Metal Mn<sup>2+</sup> Doping (Adv. Funct. Mater. 26/2014). Advanced Functional Materials, 2014, 24, 4196-4196. | 14.9 | 9 |
| 41 | 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. | 14.9 | 213 |
| 42 | Multi-functional NaErF<sub>4</sub>:Yb nanorods: enhanced red upconversion emission, in vitro cell, in vivo X-ray, and T<sub>2</sub>-weighted magnetic resonance imaging. Nanoscale, 2014, 6, 2855-2860. | 5.6 | 47 |
| 43 | Controllable multicolor output, white luminescence and cathodoluminescence properties of high quality NaCeF4:Ln3+ (Ln3+ = Eu3+, Dy3+, Tb3+) nanorods. RSC Advances, 2014, 4, 49916-49923. | 3.6 | 13 |
| 44 | Urchin-like Ce/Tb co-doped GdPO<sub>4</sub> hollow spheres for in vivo luminescence/X-ray bioimaging and drug delivery. Biomaterials Science, 2014, 2, 1404-1411. | 5.4 | 39 |
| 45 | One-pot synthesis of PEG modified BaLuF<sub>5</sub>:Gd/Yb/Er nanoprobes for dual-modal in vivo upconversion luminescence and X-ray bioimaging. Dalton Transactions, 2014, 43, 13343-13348. | 3.3 | 20 |
| 46 | PEGylated NaLuF4: Yb/Er upconversion nanophosphors for inÂvivo synergistic fluorescence/X-ray bioimaging and long-lasting, real-time tracking. Biomaterials, 2014, 35, 9689-9697. | 11.4 | 55 |
| 47 | 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. | 8.0 | 79 |
| 48 | Sub-10 nm BaLaF5:Mn/Yb/Er nanoprobes for dual-modal synergistic in vivo upconversion luminescence and X-ray bioimaging. Journal of Materials Chemistry B, 2014, 2, 6527-6533. | 5.8 | 23 |
| 49 | Tunable multicolor upconversion luminescence and paramagnetic property of the lanthanide doped fluorescent/magnetic bi-function NaYbF4 microtubes. Journal of Alloys and Compounds, 2014, 589, 502-506. | 5.5 | 20 |
| 50 | Dual-modal upconversion fluorescent/X-ray imaging using ligand-free hexagonal phase NaLuF4:Gd/Yb/Er nanorods for blood vessel visualization. Biomaterials, 2014, 35, 2934-2941. | 11.4 | 128 |
| 51 | High quality multi-functional NaErF4 nanocrystals: structure-controlled synthesis, phase-induced multi-color emissions and tunable magnetic properties. Journal of Materials Chemistry C, 2013, 1, 5520. | 5.5 | 37 |
| 52 | Simultaneous synthesis and amine-functionalization of single-phase BaYF5:Yb/Er nanoprobe for dual-modal in vivo upconversion fluorescence and long-lasting X-ray computed tomography imaging. Nanoscale, 2013, 5, 6023. | 5.6 | 76 |
| 53 | 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. | 1.1 | 6 |
| 54 | Intense Red Upconversion Emission and Shape Controlled Synthesis of Gd2O3:Yb/Er Nanocrystals. Advances in Condensed Matter Physics, 2013, 2013, 1-5. | 1.1 | 6 |

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|---|---|---|---|
| 55 | Synthesis, Tunable Multicolor Output, and High Pure Red Upconversion Emission of Lanthanide-Doped Lu<sub>2</sub>O<sub>3</sub>Nanosheets. Advances in Condensed Matter Physics, 2013, 2013, 1-6. | 1.1 | 1 |