

Yao Sun

List of Publications by Year in descending order

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100
papers

6,049
citations

101543

36
h-index

71685

76
g-index

101
all docs

101
docs citations

101
times ranked

5291
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | A small-molecule dye for NIR-II imaging. <i>Nature Materials</i> , 2016, 15, 235-242. | 27.5 | 1,314 |
| 2 | Recent advances in near-infrared II fluorophores for multifunctional biomedical imaging. <i>Chemical Science</i> , 2018, 9, 4370-4380. | 7.4 | 437 |
| 3 | Novel benzo-bis(1,2,5-thiadiazole) fluorophores for in vivo NIR-II imaging of cancer. <i>Chemical Science</i> , 2016, 7, 6203-6207. | 7.4 | 263 |
| 4 | Novel bright-emission small-molecule NIR-II fluorophores for in vivo tumor imaging and image-guided surgery. <i>Chemical Science</i> , 2017, 8, 3489-3493. | 7.4 | 238 |
| 5 | Versatile Types of Inorganic/Organic NIR-IIa/IIb Fluorophores: From Strategic Design toward Molecular Imaging and Theranostics. <i>Chemical Reviews</i> , 2022, 122, 209-268. | 47.7 | 232 |
| 6 | Advanced biotechnology-assisted precise sonodynamic therapy. <i>Chemical Society Reviews</i> , 2021, 50, 11227-11248. | 38.1 | 219 |
| 7 | Multifunctional Biomedical Imaging in Physiological and Pathological Conditions Using a NIR-II Probe. <i>Advanced Functional Materials</i> , 2017, 27, 1700995. | 14.9 | 169 |
| 8 | Novel dual-function near-infrared II fluorescence and PET probe for tumor delineation and image-guided surgery. <i>Chemical Science</i> , 2018, 9, 2092-2097. | 7.4 | 149 |
| 9 | Melanin-dot-mediated delivery of metallacycle for NIR-II/photoacoustic dual-modal imaging-guided chemo-photothermal synergistic therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16729-16735. | 7.1 | 141 |
| 10 | Rhomboidal Pt(II) metallacycle-based NIR-II theranostic nanoprobe for tumor diagnosis and image-guided therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1968-1973. | 7.1 | 140 |
| 11 | Rational design of a multifunctional molecular dye for dual-modal NIR-II/photoacoustic imaging and photothermal therapy. <i>Chemical Science</i> , 2019, 10, 8348-8353. | 7.4 | 137 |
| 12 | Beyond 1000 nm Emission Wavelength: Recent Advances in Organic and Inorganic Emitters for Deep-Tissue Molecular Imaging. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900260. | 7.6 | 125 |
| 13 | Recent advances in the development of NIR-II organic emitters for biomedicine. <i>Coordination Chemistry Reviews</i> , 2020, 415, 213318. | 18.8 | 122 |
| 14 | A biomimetic chiral-driven ionic gate constructed by pillar[6]arene-based host-guest systems. <i>Nature Communications</i> , 2018, 9, 2617. | 12.8 | 119 |
| 15 | NIR-II emissive multifunctional AIEgen with single laser-activated synergistic photodynamic/photothermal therapy of cancers and pathogens. <i>Biomaterials</i> , 2020, 259, 120315. | 11.4 | 103 |
| 16 | Near-Infrared Fluorescent Turn-on Probe with a Remarkable Large Stokes Shift for Imaging Selenocysteine in Living Cells and Animals. <i>Analytical Chemistry</i> , 2017, 89, 6106-6112. | 6.5 | 99 |
| 17 | A nano-cocktail of an NIR-II emissive fluorophore and organoplatinum(II) metallacycle for efficient cancer imaging and therapy. <i>Chemical Science</i> , 2019, 10, 7023-7028. | 7.4 | 98 |
| 18 | Strained Cyclooctyne as a Molecular Platform for Construction of Multimodal Imaging Probes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5981-5984. | 13.8 | 97 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | A highly selective and recyclable NO-responsive nanochannel based on a spiroring opening-closing reaction strategy. <i>Nature Communications</i> , 2019, 10, 1323. | 12.8 | 96 |
| 20 | PEGylation Regulates Self-Assembled Small-Molecule Dye-Based Probes from Single Molecule to Nanoparticle Size for Multifunctional NIR-II Bioimaging. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800973. | 7.6 | 75 |
| 21 | Recent advances on small-molecule fluorophores with emission beyond 1000 nm for better molecular imaging in vivo. <i>Chinese Chemical Letters</i> , 2019, 30, 1731-1737. | 9.0 | 73 |
| 22 | Construction of emissive ruthenium(II) metallacycle over 1000 nm wavelength for in vivo biomedical applications. <i>Nature Communications</i> , 2022, 13, 2009. | 12.8 | 66 |
| 23 | Recent advances in the development of activatable multifunctional probes for in vivo imaging of caspase-3. <i>Chinese Chemical Letters</i> , 2021, 32, 168-178. | 9.0 | 64 |
| 24 | Rational Design of a Multifunctional Molecular Dye with Single Dose and Laser for Efficiency NIR-II Fluorescence/Photoacoustic Imaging Guided Photothermal Therapy. <i>Analytical Chemistry</i> , 2019, 91, 12476-12483. | 6.5 | 62 |
| 25 | Multienzyme-Targeted Fluorescent Probe as a Biosensing Platform for Broad Detection of Pesticide Residues. <i>Analytical Chemistry</i> , 2021, 93, 7079-7085. | 6.5 | 59 |
| 26 | Design of a Metallacycle-Based Supramolecular Photosensitizer for In Vivo Image-Guided Photodynamic Inactivation of Bacteria. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202110048. | 13.8 | 59 |
| 27 | Biomedical applications of Pt(II) metallacycle/metallacage-based agents: From mono-chemotherapy to versatile imaging contrasts and theranostic platforms. <i>Coordination Chemistry Reviews</i> , 2021, 443, 214017. | 18.8 | 57 |
| 28 | Rationally designed Ru(II)-metallacycle chemo-phototheranostic that emits beyond 1000 nm. <i>Chemical Science</i> , 2022, 13, 6541-6549. | 7.4 | 54 |
| 29 | Chimaphilin induces apoptosis in human breast cancer MCF-7 cells through a ROS-mediated mitochondrial pathway. <i>Food and Chemical Toxicology</i> , 2014, 70, 1-8. | 3.6 | 50 |
| 30 | Reactive oxygen species, thiols and enzymes activable AIEgens from single fluorescence imaging to multifunctional theranostics. <i>Coordination Chemistry Reviews</i> , 2021, 427, 213559. | 18.8 | 50 |
| 31 | Rational Design and Application of an Indolium-Derived Heptamethine Cyanine with Record-Long Second Near-Infrared Emission. <i>CCS Chemistry</i> , 2022, 4, 1961-1976. | 7.8 | 50 |
| 32 | Chiral colorimetric recognition of amino acids based on silver nanoparticle clusters. <i>New Journal of Chemistry</i> , 2012, 36, 1442. | 2.8 | 49 |
| 33 | 7, 8-Dihydroxyflavone induces synapse expression of AMPA GluA1 and ameliorates cognitive and spine abnormalities in a mouse model of fragile X syndrome. <i>Neuropharmacology</i> , 2015, 89, 43-53. | 4.1 | 48 |
| 34 | Switchable Nanochannel Biosensor for H ₂ S Detection Based on an Azide Reduction Reaction Controlled BSA Aggregation. <i>Analytical Chemistry</i> , 2019, 91, 6149-6154. | 6.5 | 45 |
| 35 | Pillar[5]arene-Containing Metallacycles and Host-Guest Interaction Caused Aggregation-Induced Emission Enhancement Platforms. <i>Journal of the American Chemical Society</i> , 2020, 142, 16930-16934. | 13.7 | 44 |
| 36 | Recent development of near-infrared photoacoustic probes based on small-molecule organic dye. <i>RSC Chemical Biology</i> , 2021, 2, 743-758. | 4.1 | 40 |

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|----|---|------|-----------|
| 37 | Recent development on peptide-based probes for multifunctional biomedical imaging. Chinese Chemical Letters, 2018, 29, 1093-1097. | 9.0 | 38 |
| 38 | An Activity-Based Fluorogenic Probe Enables Cellular and in Vivo Profiling of Carboxylesterase Isozymes. Analytical Chemistry, 2020, 92, 9205-9213. | 6.5 | 37 |
| 39 | Chelator-Free and Biocompatible Melanin Nanoplatfrom with Facile-Loading Gadolinium and Copper-64 for Bioimaging. Bioconjugate Chemistry, 2017, 28, 1925-1930. | 3.6 | 32 |
| 40 | Rigidity Bridging Flexibility to Harmonize Three Excited-State Deactivation Pathways for NIR-II Fluorescent Imaging-Guided Phototherapy. Advanced Healthcare Materials, 2021, 10, e2101003. | 7.6 | 31 |
| 41 | Human Neutrophil Elastase Activated Fluorescent Probe for Pulmonary Diseases Based on Fluorescence Resonance Energy Transfer Using CdSe/ZnS Quantum Dots. ACS Nano, 2020, 14, 4244-4254. | 14.6 | 30 |
| 42 | UPAR targeted molecular imaging of cancers with small molecule-based probes. Bioorganic and Medicinal Chemistry, 2017, 25, 5179-5184. | 3.0 | 29 |
| 43 | Fabrication of a Smart Nanofluidic Biosensor through a Reversible Covalent Bond Strategy for High-Efficiency Bisulfite Sensing and Removal. Analytical Chemistry, 2020, 92, 4131-4136. | 6.5 | 29 |
| 44 | Preclinical Study on GRPR-Targeted 68Ga-Probes for PET Imaging of Prostate Cancer. Bioconjugate Chemistry, 2016, 27, 1857-1864. | 3.6 | 27 |
| 45 | Recyclable Cu(Cu^{I})/melanin dots for cycloaddition, bioconjugation and cell labelling. Chemical Science, 2016, 7, 5888-5892. | 7.4 | 27 |
| 46 | Near-Infrared Fluorescence/Photoacoustic Agent with an Intensifying Optical Performance for Imaging-Guided Effective Photothermal Therapy. Advanced Therapeutics, 2020, 3, 2000170. | 3.2 | 25 |
| 47 | NIR-II Emissive Ru(II) Metallacycle Assisting Fluorescence Imaging and Cancer Therapy. Small, 2022, 18, e2201625. | 10.0 | 25 |
| 48 | A photo-responsive macroscopic switch constructed using a chiral azo-calix[4]arene functionalized silicon surface. Chemical Communications, 2018, 54, 2978-2981. | 4.1 | 24 |
| 49 | Initiation of the inflammatory response after renal ischemia/reperfusion injury during renal transplantation. International Urology and Nephrology, 2018, 50, 2027-2035. | 1.4 | 22 |
| 50 | Construction of a Smart Nanofluidic Sensor through a Redox Reaction Strategy for High-Performance Carbon Monoxide Sensing. Analytical Chemistry, 2020, 92, 14947-14952. | 6.5 | 22 |
| 51 | Highly Efficient Ionic Gating of Solid-State Nanosensors by the Reversible Interaction between Pillar[6]arene-AuNPs and Azobenzene. Analytical Chemistry, 2021, 93, 3280-3286. | 6.5 | 20 |
| 52 | Aspidin PB, a phloroglucinol derivative, induces apoptosis in human hepatocarcinoma HepG2 cells by modulating PI3K/Akt/GSK3 β pathway. Chemico-Biological Interactions, 2013, 201, 1-8. | 4.0 | 19 |
| 53 | Photoacoustic imaging-guided chemo-photothermal combinational therapy based on emissive Pt(II) metallacycle-loaded biomimic melanin dots. Science China Chemistry, 2021, 64, 134-142. | 8.2 | 19 |
| 54 | Engineering a Smart Nanofluidic Sensor for High-Performance Peroxynitrite Sensing through a Spirocyclic Ring Open/Close Reaction Strategy. ACS Sensors, 2021, 6, 808-814. | 7.8 | 19 |

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|----|--|-----|-----------|
| 55 | <p></p>Facile Synthesis of Melanin-Dye Nanoagent for NIR-II Fluorescence/Photoacoustic Imaging-Guided Photothermal Therapy<p></p>. International Journal of Nanomedicine, 2020, Volume 15, 10199-10213. | 6.7 | 18 |
| 56 | Zn ²⁺ and EDTA Cooperative Switchable Nanofluidic Diode Based on Asymmetric Modification of Single Nanochannel. Chemistry - A European Journal, 2016, 22, 4355-4358. | 3.3 | 17 |
| 57 | Multimodality Molecular Imaging of Cardiovascular Disease Based on Nanoprobes. Cellular Physiology and Biochemistry, 2018, 48, 1401-1415. | 1.6 | 14 |
| 58 | Evaluation of genetic variants in <i>IL1B</i> and its interaction with the predisposition of osteoporosis in the northwestern Chinese Han population. Journal of Gene Medicine, 2020, 22, e3214. | 2.8 | 14 |
| 59 | Fabrication of a Tyrosine-Responsive Liquid Quantum Dots Based Biosensor through Host-Guest Chemistry. Analytical Chemistry, 2019, 91, 13285-13289. | 6.5 | 13 |
| 60 | A coumarin-based fluorescent probe for NIR imaging-guided photodynamic therapy against <i>S. aureus</i>-induced infection in mouse models. Journal of Materials Chemistry B, 2022, 10, 1427-1433. | 5.8 | 13 |
| 61 | Study on the interaction between cyanobacteria FBP/SBPase and metal ions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 89, 337-344. | 3.9 | 12 |
| 62 | Dual T 1 and T 2 weighted magnetic resonance imaging based on Gd 3+ loaded bioinspired melanin dots. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 1743-1752. | 3.3 | 12 |
| 63 | Association between IL4 tagging single nucleotide polymorphisms and the risk of lung cancer in China. Molecular Genetics & Genomic Medicine, 2019, 7, e00585. | 1.2 | 12 |
| 64 | COL6A3 polymorphisms were associated with lung cancer risk in a Chinese population. Respiratory Research, 2019, 20, 143. | 3.6 | 11 |
| 65 | Noninvasive <i>In Vivo</i> Imaging and Monitoring of 3D-Printed Polycaprolactone Scaffolds Labeled with an NIR Region II Fluorescent Dye. ACS Applied Bio Materials, 2021, 4, 3189-3202. | 4.6 | 11 |
| 66 | Design of a Metallacycle-Based Supramolecular Photosensitizer for In Vivo Image-Guided Photodynamic Inactivation of Bacteria. Angewandte Chemie, 0, , . | 2.0 | 11 |
| 67 | Simultaneous Synthesis, Modification, and DFT Calculation of Three-Color Lead Halide Perovskite Phosphors for Improving Stability and Luminous Efficiency of WLEDs. Advanced Optical Materials, 2022, 10, 2101765. | 7.3 | 11 |
| 68 | Genetic polymorphisms in <i>IL1R1</i> and <i>IL1R2</i> are associated with susceptibility to thyroid cancer in the Chinese Han population. Journal of Gene Medicine, 2019, 21, e3093. | 2.8 | 10 |
| 69 | Association of GSDMC polymorphisms with lumbar disc herniation among Chinese Han population. International Journal of Immunogenetics, 2020, 47, 546-553. | 1.8 | 10 |
| 70 | IL4 gene polymorphisms and their relation to steroid-induced osteonecrosis of the femoral head in Chinese population. Molecular Genetics & Genomic Medicine, 2019, 7, e563. | 1.2 | 10 |
| 71 | LPP and RYR2 Gene Polymorphisms Correlate with the Risk and the Prognosis of Astrocytoma. Journal of Molecular Neuroscience, 2019, 69, 628-635. | 2.3 | 8 |
| 72 | The influence of CYP1A1 and CYP1A2 polymorphisms on stroke risk in the Chinese population. Lipids in Health and Disease, 2020, 19, 221. | 3.0 | 8 |

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|----|---|-----|-----------|
| 73 | Engineering the Redox-Driven Channel for Precisely Regulating Nanoconfined Glutathione Identification and Transport. ACS Applied Materials & Interfaces, 2021, 13, 49137-49145. | 8.0 | 8 |
| 74 | Pharmacophore-Based Virtual Screening and Experimental Validation of Novel Inhibitors against Cyanobacterial Fructose-1,6-/Sedoheptulose-1,7-bisphosphatase. Journal of Chemical Information and Modeling, 2014, 54, 894-901. | 5.4 | 7 |
| 75 | Improved positron emission tomography imaging of glioblastoma cancer using novel ⁶⁸ Ga-labeled peptides targeting the urokinase-type plasminogen activator receptor (uPAR). Amino Acids, 2017, 49, 1089-1100. | 2.7 | 7 |
| 76 | Polymorphisms in IL1A are associated with endometrial cancer susceptibility among Chinese Han population: A case-control study. International Journal of Immunogenetics, 2020, 47, 169-174. | 1.8 | 7 |
| 77 | Engineering a NO-Regulated Nanofluidic Sensor through the Cyclization Reaction Strategy. Chemistry - A European Journal, 2020, 26, 11099-11103. | 3.3 | 7 |
| 78 | Association between ACYP2 polymorphisms and the risk of renal cell cancer. Molecular Genetics & Genomic Medicine, 2019, 7, e966. | 1.2 | 6 |
| 79 | Genetic variation of pharmacogenomic VIP variants in Zhuang nationality of southern China. Pharmacogenomics Journal, 2021, 21, 60-68. | 2.0 | 6 |
| 80 | Assessment of ADCY9 polymorphisms and colorectal cancer risk in the Chinese Han population. Journal of Gene Medicine, 2021, 23, e3298. | 2.8 | 6 |
| 81 | IL1R2 Polymorphisms are Associated with Increased Risk of Esophageal Cancer. Current Molecular Medicine, 2020, 20, 379-387. | 1.3 | 6 |
| 82 | Association of polymorphisms in LOC105377871 and CASC16 with breast cancer in the northwest Chinese Han population. Journal of Gene Medicine, 2020, 22, e3131. | 2.8 | 5 |
| 83 | CASC15 polymorphisms are correlated with cervical cancer susceptibility in Chinese women. Molecular Genetics & Genomic Medicine, 2020, 8, e1246. | 1.2 | 5 |
| 84 | IL1R1 Polymorphisms are Associated with Lumbar Disc Herniation Risk in the Northwestern Chinese Han Population. Medical Science Monitor, 2019, 25, 3728-3738. | 1.1 | 4 |
| 85 | Low-latency and high-reliability performance analysis of relay systems. IET Communications, 2018, 12, 627-633. | 2.2 | 3 |
| 86 | Variants in COL6A3 gene influence susceptibility to esophageal cancer in the Chinese population. Cancer Genetics, 2019, 238, 23-30. | 0.4 | 3 |
| 87 | Associations between polymorphisms of the ACYP2 gene and Liver cancer risk: A case-control study and meta-analysis. Molecular Genetics & Genomic Medicine, 2019, 7, e00716. | 1.2 | 3 |
| 88 | Variants in multiple genes are associated with esophageal cancer risk in a Chinese Han population: A case-control study. Journal of Gene Medicine, 2020, 22, e3266. | 2.8 | 3 |
| 89 | Association of ST6GAL1 and CYP19A1 polymorphisms in the 3'-UTR with astrocytoma risk and prognosis in a Chinese Han population. BMC Cancer, 2021, 21, 391. | 2.6 | 2 |
| 90 | Primary ovarian serous carcinomas with extensive squamous differentiation: a case report and literature review. BMC Women's Health, 2021, 21, 193. | 2.0 | 2 |

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|-----|--|------|-----------|
| 91 | Recent Progress in the Construction of Artificial Nanochannels for Biosensing. Analysis & Sensing, 2022, 2, . | 2.0 | 2 |
| 92 | Facile Cu(II)-mediated conjugation of thioesters and thioacids to peptides and proteins under mild conditions. Organic and Biomolecular Chemistry, 2018, 16, 3610-3614. | 2.8 | 1 |
| 93 | TIMP3 gene polymorphisms and relation to Ankylosing spondylitis susceptibility in Chinese Han population. International Journal of Immunogenetics, 2019, 46, 472-478. | 1.8 | 1 |
| 94 | CYP2B6 Polymorphisms Are Associated with Ischemic Stroke Risk in a Chinese Han Population. Journal of Molecular Neuroscience, 2020, 70, 1130-1139. | 2.3 | 1 |
| 95 | MiR-143HG Gene Polymorphisms as Risk Factors for Gastric Cancer in Chinese Han Population. Current Molecular Medicine, 2020, 20, 536-547. | 1.3 | 1 |
| 96 | Influence of CMTM8 polymorphisms on lung cancer susceptibility in the Chinese Han population. Pharmacogenetics and Genomics, 2021, 31, 89-95. | 1.5 | 1 |
| 97 | Imaging: Multifunctional Biomedical Imaging in Physiological and Pathological Conditions Using a NIR-II Probe (Adv. Funct. Mater. 23/2017). Advanced Functional Materials, 2017, 27, . | 14.9 | 0 |
| 98 | CYP24A1 rs1570669 Variant Has a Protective Effect against Tumors of the Urinary System. Public Health Genomics, 2020, 23, 200-209. | 1.0 | 0 |
| 99 | The contribution of the and genetic polymorphisms to IgA nephropathy in the Chinese Han population. American Journal of Translational Research (discontinued), 2021, 13, 11718-11727. | 0.0 | 0 |
| 100 | Fabrication of Redox-Controllable Bioinspired Nanochannels for Precisely Regulating Protein Transport. ACS Applied Materials & Interfaces, 2022, 14, 27421-27426. | 8.0 | 0 |