

# Yao Sun

## List of Publications by Year in descending order

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100  
papers

6,049  
citations

101496

36  
h-index

71651

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.	13.3	1,314
2	Recent advances in near-infrared II fluorophores for multifunctional biomedical imaging. <i>Chemical Science</i> , 2018, 9, 4370-4380.	3.7	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.	3.7	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.	3.7	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.	23.0	232
6	Advanced biotechnology-assisted precise sonodynamic therapy. <i>Chemical Society Reviews</i> , 2021, 50, 11227-11248.	18.7	219
7	Multifunctional Biomedical Imaging in Physiological and Pathological Conditions Using a NIR-II Probe. <i>Advanced Functional Materials</i> , 2017, 27, 1700995.	7.8	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.	3.7	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.	3.3	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.	3.3	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.	3.7	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.	3.9	125
13	Recent advances in the development of NIR-II organic emitters for biomedicine. <i>Coordination Chemistry Reviews</i> , 2020, 415, 213318.	9.5	122
14	A biomimetic chiral-driven ionic gate constructed by pillar[6]arene-based host-guest systems. <i>Nature Communications</i> , 2018, 9, 2617.	5.8	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.	5.7	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.	3.2	99
17	A nano-cocktail of an NIR-II emissive fluorophore and organoplatinum metallacycle for efficient cancer imaging and therapy. <i>Chemical Science</i> , 2019, 10, 7023-7028.	3.7	98
18	Strained Cyclooctyne as a Molecular Platform for Construction of Multimodal Imaging Probes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5981-5984.	7.2	97

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19	A highly selective and recyclable NO-responsive nanochannel based on a spiroring opening-closing reaction strategy. <i>Nature Communications</i> , 2019, 10, 1323.	5.8	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.	3.9	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.	4.8	73
22	Construction of emissive ruthenium(II) metallacycle over 1000 nm wavelength for in vivo biomedical applications. <i>Nature Communications</i> , 2022, 13, 2009.	5.8	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.	4.8	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.	3.2	62
25	Multienzyme-Targeted Fluorescent Probe as a Biosensing Platform for Broad Detection of Pesticide Residues. <i>Analytical Chemistry</i> , 2021, 93, 7079-7085.	3.2	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.	7.2	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.	9.5	57
28	Rationally designed Ru(II)-metallacycle chemo-phototheranostic that emits beyond 1000 nm. <i>Chemical Science</i> , 2022, 13, 6541-6549.	3.7	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.	1.8	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.	9.5	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.	4.6	50
32	Chiral colorimetric recognition of amino acids based on silver nanoparticle clusters. <i>New Journal of Chemistry</i> , 2012, 36, 1442.	1.4	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.	2.0	48
34	Switchable Nanochannel Biosensor for H <sub>2</sub> S Detection Based on an Azide Reduction Reaction Controlled BSA Aggregation. <i>Analytical Chemistry</i> , 2019, 91, 6149-6154.	3.2	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.	6.6	44
36	Recent development of near-infrared photoacoustic probes based on small-molecule organic dye. <i>RSC Chemical Biology</i> , 2021, 2, 743-758.	2.0	40

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37	Recent development on peptide-based probes for multifunctional biomedical imaging. <i>Chinese Chemical Letters</i> , 2018, 29, 1093-1097.	4.8	38
38	An Activity-Based Fluorogenic Probe Enables Cellular and in Vivo Profiling of Carboxylesterase Isozymes. <i>Analytical Chemistry</i> , 2020, 92, 9205-9213.	3.2	37
39	Chelator-Free and Biocompatible Melanin Nanoplatform with Facile-Loading Gadolinium and Copper-64 for Bioimaging. <i>Bioconjugate Chemistry</i> , 2017, 28, 1925-1930.	1.8	32
40	Rigidity Bridging Flexibility to Harmonize Three Excited-State Deactivation Pathways for NIR-Fluorescent Imaging-Guided Phototherapy. <i>Advanced Healthcare Materials</i> , 2021, 10, e2101003.	3.9	31
41	Human Neutrophil Elastase Activated Fluorescent Probe for Pulmonary Diseases Based on Fluorescence Resonance Energy Transfer Using CdSe/ZnS Quantum Dots. <i>ACS Nano</i> , 2020, 14, 4244-4254.	7.3	30
42	UPAR targeted molecular imaging of cancers with small molecule-based probes. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 5179-5184.	1.4	29
43	Fabrication of a Smart Nanofluidic Biosensor through a Reversible Covalent Bond Strategy for High-Efficiency Bisulfite Sensing and Removal. <i>Analytical Chemistry</i> , 2020, 92, 4131-4136.	3.2	29
44	Preclinical Study on GRPR-Targeted <sup>68</sup> Ga-Probes for PET Imaging of Prostate Cancer. <i>Bioconjugate Chemistry</i> , 2016, 27, 1857-1864.	1.8	27
45	Recyclable Cu(II)/melanin dots for cycloaddition, bioconjugation and cell labelling. <i>Chemical Science</i> , 2016, 7, 5888-5892.	3.7	27
46	Near-Infrared Fluorescence/Photoacoustic Agent with an Intensifying Optical Performance for Imaging-Guided Effective Photothermal Therapy. <i>Advanced Therapeutics</i> , 2020, 3, 2000170.	1.6	25
47	NIR Emissive Ru(II) Metallacycle Assisting Fluorescence Imaging and Cancer Therapy. <i>Small</i> , 2022, 18, e2201625.	5.2	25
48	A photo-responsive macroscopic switch constructed using a chiral azo-calix[4]arene functionalized silicon surface. <i>Chemical Communications</i> , 2018, 54, 2978-2981.	2.2	24
49	Initiation of the inflammatory response after renal ischemia/reperfusion injury during renal transplantation. <i>International Urology and Nephrology</i> , 2018, 50, 2027-2035.	0.6	22
50	Construction of a Smart Nanofluidic Sensor through a Redox Reaction Strategy for High-Performance Carbon Monoxide Sensing. <i>Analytical Chemistry</i> , 2020, 92, 14947-14952.	3.2	22
51	Highly Efficient Ionic Gating of Solid-State Nanosensors by the Reversible Interaction between Pillar[6]arene-AuNPs and Azobenzene. <i>Analytical Chemistry</i> , 2021, 93, 3280-3286.	3.2	20
52	Aspidin PB, a phloroglucinol derivative, induces apoptosis in human hepatocarcinoma HepG2 cells by modulating PI3K/Akt/GSK3 $\beta$ pathway. <i>Chemico-Biological Interactions</i> , 2013, 201, 1-8.	1.7	19
53	Photoacoustic imaging-guided chemo-photothermal combinational therapy based on emissive Pt(II) metallacycle-loaded biomimic melanin dots. <i>Science China Chemistry</i> , 2021, 64, 134-142.	4.2	19
54	Engineering a Smart Nanofluidic Sensor for High-Performance Peroxynitrite Sensing through a Spirocyclic Ring Open/Close Reaction Strategy. <i>ACS Sensors</i> , 2021, 6, 808-814.	4.0	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.	3.3	18
56	Zn <sup>2+</sup> and EDTA Cooperative Switchable Nanofluidic Diode Based on Asymmetric Modification of Single Nanochannel. Chemistry - A European Journal, 2016, 22, 4355-4358.	1.7	17
57	Multimodality Molecular Imaging of Cardiovascular Disease Based on Nanoprobes. Cellular Physiology and Biochemistry, 2018, 48, 1401-1415.	1.1	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.	1.4	14
59	Fabrication of a Tyrosine-Responsive Liquid Quantum Dots Based Biosensor through Host-Guest Chemistry. Analytical Chemistry, 2019, 91, 13285-13289.	3.2	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.	2.9	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.	2.0	12
62	Dual T1 and T2 weighted magnetic resonance imaging based on Gd <sup>3+</sup> loaded bioinspired melanin dots. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 1743-1752.	1.7	12
63	Association between <i>IL4</i> tagging single nucleotide polymorphisms and the risk of lung cancer in China. Molecular Genetics & Genomic Medicine, 2019, 7, e00585.	0.6	12
64	COL6A3 polymorphisms were associated with lung cancer risk in a Chinese population. Respiratory Research, 2019, 20, 143.	1.4	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.	2.3	11
66	Design of a Metallacycle-Based Supramolecular Photosensitizer for <i>In Vivo</i> Image-Guided Photodynamic Inactivation of Bacteria. Angewandte Chemie, 0, , .	1.6	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.	3.6	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.	1.4	10
69	Association of GSDMC polymorphisms with lumbar disc herniation among Chinese Han population. International Journal of Immunogenetics, 2020, 47, 546-553.	0.8	10
70	<i>IL4</i> gene polymorphisms and their relation to steroid-induced osteonecrosis of the femoral head in Chinese population. Molecular Genetics & Genomic Medicine, 2019, 7, e563.	0.6	10
71	LPP and RYR2 Gene Polymorphisms Correlate with the Risk and the Prognosis of Astrocytoma. Journal of Molecular Neuroscience, 2019, 69, 628-635.	1.1	8
72	The influence of CYP1A1 and CYP1A2 polymorphisms on stroke risk in the Chinese population. Lipids in Health and Disease, 2020, 19, 221.	1.2	8

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73	Engineering the Redox-Driven Channel for Precisely Regulating Nanoconfined Glutathione Identification and Transport. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 49137-49145.	4.0	8
74	Pharmacophore-Based Virtual Screening and Experimental Validation of Novel Inhibitors against Cyanobacterial Fructose-1,6-/Sedoheptulose-1,7-bisphosphatase. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 894-901.	2.5	7
75	Improved positron emission tomography imaging of glioblastoma cancer using novel <sup>68</sup> Ga-labeled peptides targeting the urokinase-type plasminogen activator receptor (uPAR). <i>Amino Acids</i> , 2017, 49, 1089-1100.	1.2	7
76	Polymorphisms in IL1A are associated with endometrial cancer susceptibility among Chinese Han population: A case-control study. <i>International Journal of Immunogenetics</i> , 2020, 47, 169-174.	0.8	7
77	Engineering a NO-Regulated Nanofluidic Sensor through the Cyclization Reaction Strategy. <i>Chemistry - A European Journal</i> , 2020, 26, 11099-11103.	1.7	7
78	Association between ACYP2 polymorphisms and the risk of renal cell cancer. <i>Molecular Genetics &amp; Genomic Medicine</i> , 2019, 7, e966.	0.6	6
79	Genetic variation of pharmacogenomic VIP variants in Zhuang nationality of southern China. <i>Pharmacogenomics Journal</i> , 2021, 21, 60-68.	0.9	6
80	Assessment of ADCY9 polymorphisms and colorectal cancer risk in the Chinese Han population. <i>Journal of Gene Medicine</i> , 2021, 23, e3298.	1.4	6
81	IL1R2 Polymorphisms are Associated with Increased Risk of Esophageal Cancer. <i>Current Molecular Medicine</i> , 2020, 20, 379-387.	0.6	6
82	Association of polymorphisms in LOC105377871 and CASC16 with breast cancer in the northwest Chinese Han population. <i>Journal of Gene Medicine</i> , 2020, 22, e3131.	1.4	5
83	CASC15 polymorphisms are correlated with cervical cancer susceptibility in Chinese women. <i>Molecular Genetics &amp; Genomic Medicine</i> , 2020, 8, e1246.	0.6	5
84	IL1R1 Polymorphisms are Associated with Lumbar Disc Herniation Risk in the Northwestern Chinese Han Population. <i>Medical Science Monitor</i> , 2019, 25, 3728-3738.	0.5	4
85	Low-latency and high-reliability performance analysis of relay systems. <i>IET Communications</i> , 2018, 12, 627-633.	1.5	3
86	Variants in COL6A3 gene influence susceptibility to esophageal cancer in the Chinese population. <i>Cancer Genetics</i> , 2019, 238, 23-30.	0.2	3
87	Associations between polymorphisms of the ACYP2 gene and Liver cancer risk: A case-control study and meta-analysis. <i>Molecular Genetics &amp; Genomic Medicine</i> , 2019, 7, e00716.	0.6	3
88	Variants in multiple genes are associated with esophageal cancer risk in a Chinese Han population: A case-control study. <i>Journal of Gene Medicine</i> , 2020, 22, e3266.	1.4	3
89	Association of ST6GAL1 and CYP19A1 polymorphisms in the 3'-UTR with astrocytoma risk and prognosis in a Chinese Han population. <i>BMC Cancer</i> , 2021, 21, 391.	1.1	2
90	Primary ovarian serous carcinomas with extensive squamous differentiation: a case report and literature review. <i>BMC Women's Health</i> , 2021, 21, 193.	0.8	2

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91	Recent Progress in the Construction of Artificial Nanochannels for Biosensing. <i>Analysis &amp; Sensing</i> , 2022, 2, .	1.1	2
92	Facile Cu(II)-mediated conjugation of thioesters and thioacids to peptides and proteins under mild conditions. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 3610-3614.	1.5	1
93	TIMP3 gene polymorphisms and relation to Ankylosing spondylitis susceptibility in Chinese Han population. <i>International Journal of Immunogenetics</i> , 2019, 46, 472-478.	0.8	1
94	CYP2B6 Polymorphisms Are Associated with Ischemic Stroke Risk in a Chinese Han Population. <i>Journal of Molecular Neuroscience</i> , 2020, 70, 1130-1139.	1.1	1
95	MiR-143HG Gene Polymorphisms as Risk Factors for Gastric Cancer in Chinese Han Population. <i>Current Molecular Medicine</i> , 2020, 20, 536-547.	0.6	1
96	Influence of CMTM8 polymorphisms on lung cancer susceptibility in the Chinese Han population. <i>Pharmacogenetics and Genomics</i> , 2021, 31, 89-95.	0.7	1
97	Imaging: Multifunctional Biomedical Imaging in Physiological and Pathological Conditions Using a NIR-Responsive Probe ( <i>Adv. Funct. Mater.</i> 23/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	7.8	0
98	CYP24A1 rs1570669 Variant Has a Protective Effect against Tumors of the Urinary System. <i>Public Health Genomics</i> , 2020, 23, 200-209.	0.6	0
99	The contribution of the and genetic polymorphisms to IgA nephropathy in the Chinese Han population. <i>American Journal of Translational Research (discontinued)</i> , 2021, 13, 11718-11727.	0.0	0
100	Fabrication of Redox-Controllable Bioinspired Nanochannels for Precisely Regulating Protein Transport. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 27421-27426.	4.0	0