

# Wen Sun

## List of Publications by Year in descending order

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106  
papers

7,847  
citations

53660

45  
h-index

51492

86  
g-index

106  
all docs

106  
docs citations

106  
times ranked

7137  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Development of Chemosensors Based on Cyanine Platforms. <i>Chemical Reviews</i> , 2016, 116, 7768-7817.	23.0	825
2	NIR Light-Driven Barrier-Free Group Rotation in Nanoparticles with an 88.3% Photothermal Conversion Efficiency for Photothermal Therapy. <i>Advanced Materials</i> , 2020, 32, e1907855.	11.1	422
3	Carbon Dots for In Vivo Bioimaging and Theranostics. <i>Small</i> , 2019, 15, e1805087.	5.2	337
4	A two-photon fluorescent probe with near-infrared emission for hydrogen sulfide imaging in biosystems. <i>Chemical Communications</i> , 2013, 49, 3890.	2.2	295
5	Superoxide Radical Photogenerator with Amplification Effect: Surmounting the Achilles' Heels of Photodynamic Oncotherapy. <i>Journal of the American Chemical Society</i> , 2019, 141, 2695-2702.	6.6	238
6	An Amphiphilic Ruthenium Polymetallodrug for Combined Photodynamic Therapy and Photochemotherapy In Vivo. <i>Advanced Materials</i> , 2017, 29, 1603702.	11.1	218
7	An ICT-based ratiometric probe for hydrazine and its application in live cells. <i>Chemical Communications</i> , 2012, 48, 8117.	2.2	206
8	A Ratiometric Near-Infrared Fluorescent Probe for Hydrazine and Its <i>In Vivo</i> Applications. <i>Organic Letters</i> , 2013, 15, 4022-4025.	2.4	204
9	A near-infrared fluorescent probe for selective detection of HClO based on Se-sensitized aggregation of heptamethine cyanine dye. <i>Chemical Communications</i> , 2014, 50, 1018-1020.	2.2	202
10	Activity-Based Sensing and Theranostic Probes Based on Photoinduced Electron Transfer. <i>Accounts of Chemical Research</i> , 2019, 52, 2818-2831.	7.6	202
11	Aminopeptidase N Activatable Fluorescent Probe for Tracking Metastatic Cancer and Image-Guided Surgery via <i>In Situ</i> Spraying. <i>Journal of the American Chemical Society</i> , 2020, 142, 6381-6389.	6.6	187
12	Janus Nanobullets Combine Photodynamic Therapy and Magnetic Hyperthermia to Potentiate Synergetic Anti-Metastatic Immunotherapy. <i>Advanced Science</i> , 2019, 6, 1901690.	5.6	169
13	Oxygen-Dependent Regulation of Excited-State Deactivation Process of Rational Photosensitizer for Smart Phototherapy. <i>Journal of the American Chemical Society</i> , 2020, 142, 1510-1517.	6.6	167
14	A highly specific BODIPY-based probe localized in mitochondria for HClO imaging. <i>Analyst</i> , 2013, 138, 6091.	1.7	164
15	A Fluorescent Ratiometric Chemodosimeter for Cu <sup>2+</sup> Based on TBET and Its Application in Living Cells. <i>Organic Letters</i> , 2013, 15, 492-495.	2.4	154
16	Hypoxia-activated NIR photosensitizer anchoring in the mitochondria for photodynamic therapy. <i>Chemical Science</i> , 2019, 10, 10586-10594.	3.7	151
17	Catalase-based liposomal for reversing immunosuppressive tumor microenvironment and enhanced cancer chemo-photodynamic therapy. <i>Biomaterials</i> , 2020, 233, 119755.	5.7	139
18	Boron Dipyrromethene Nano-Photosensitizers for Anticancer Phototherapies. <i>Small</i> , 2019, 15, e1804927.	5.2	135

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19	A fluorescent probe for site I binding and sensitive discrimination of HSA from BSA. <i>Chemical Communications</i> , 2014, 50, 9573-9576.	2.2	126
20	A minireview of viscosity-sensitive fluorescent probes: design and biological applications. <i>Journal of Materials Chemistry B</i> , 2020, 8, 9642-9651.	2.9	117
21	Enhanced photodynamic therapy for overcoming tumor hypoxia: From microenvironment regulation to photosensitizer innovation. <i>Coordination Chemistry Reviews</i> , 2021, 427, 213604.	9.5	104
22	Biodegradable Drug-Loaded Hydroxyapatite Nanotherapeutic Agent for Targeted Drug Release in Tumors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 7832-7840.	4.0	99
23	An APN-activated NIR photosensitizer for cancer photodynamic therapy and fluorescence imaging. <i>Biomaterials</i> , 2020, 253, 120089.	5.7	99
24	<i>In situ</i> imaging of aminopeptidase N activity in hepatocellular carcinoma: a migration model for tumour using an activatable two-photon NIR fluorescent probe. <i>Chemical Science</i> , 2019, 10, 1619-1625.	3.7	97
25	Fighting against Drug-Resistant Tumors using a Dual-Responsive Pt(IV)/Ru(II) Bimetallic Polymer. <i>Advanced Materials</i> , 2020, 32, e2004766.	11.1	89
26	Ruthenium-Containing Block Copolymer Assemblies: Red-Light-Responsive Metallopolymers with Tunable Nanostructures for Enhanced Cellular Uptake and Anticancer Phototherapy. <i>Advanced Healthcare Materials</i> , 2016, 5, 467-473.	3.9	87
27	Invisible Inks for Secrecy and Anticounterfeiting: From Single to Double-encryption by Hydrochromic Molecules. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 8952-8960.	4.0	87
28	Red-Light-Controlled Release of Drug-Ru Complex Conjugates from Metallopolymer Micelles for Phototherapy in Hypoxic Tumor Environments. <i>Advanced Functional Materials</i> , 2018, 28, 1804227.	7.8	82
29	An Approach to Developing Cyanines with Simultaneous Intersystem Crossing Enhancement and Excited-State Lifetime Elongation for Photodynamic Antitumor Metastasis. <i>Journal of the American Chemical Society</i> , 2021, 143, 12345-12354.	6.6	80
30	Development of a novel anti-tumor theranostic platform: a near-infrared molecular upconversion sensitizer for deep-seated cancer photodynamic therapy. <i>Chemical Science</i> , 2019, 10, 10106-10112.	3.7	79
31	A novel Mn-Cu bimetallic complex for enhanced chemodynamic therapy with simultaneous glutathione depletion. <i>Chemical Communications</i> , 2019, 55, 12956-12959.	2.2	75
32	Red-light-triggered self-destructive mesoporous silica nanoparticles for cascade-amplifying chemo-photodynamic therapy favoring antitumor immune responses. <i>Biomaterials</i> , 2022, 281, 121368.	5.7	75
33	Upconverting Nanoparticle-Assisted Photochemistry Induced by Low-Intensity Near-Infrared Light: How Low Can We Go?. <i>Chemistry - A European Journal</i> , 2015, 21, 9165-9170.	1.7	74
34	An estrogen receptor targeted ruthenium complex as a two-photon photodynamic therapy agent for breast cancer cells. <i>Chemical Communications</i> , 2018, 54, 7038-7041.	2.2	74
35	ER-Targeting Cyanine Dye as an NIR Photoinducer to Efficiently Trigger Photoimmunogenic Cancer Cell Death. <i>Journal of the American Chemical Society</i> , 2022, 144, 3477-3486.	6.6	73
36	Cancer immunogenic cell death via photo-pyroptosis with light-sensitive Indoleamine 2,3-dioxygenase inhibitor conjugate. <i>Biomaterials</i> , 2021, 278, 121167.	5.7	69

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37	Mitochondria-Anchored Colorimetric and Ratiometric Fluorescent Chemosensor for Visualizing Cysteine/Homocysteine in Living Cells and <i>Daphnia magna</i> Model. <i>Analytical Chemistry</i> , 2019, 91, 12531-12537.	3.2	66
38	Construction of Long-Wavelength Fluorescein Analogues and Their Application as Fluorescent Probes. <i>Chemistry - A European Journal</i> , 2013, 19, 6538-6545.	1.7	65
39	Aminopeptidase-Activated Theranostic Prodrug for NIR Tracking of Local Tumor Chemotherapy. <i>Advanced Functional Materials</i> , 2018, 28, 1805128.	7.8	65
40	Strong $\pi$ - $\pi$ Stacking Stabilized Nanophotosensitizers: Improving Tumor Retention for Enhanced Therapy for Large Tumors in Mice. <i>Advanced Materials</i> , 2022, 34, e2106797.	11.1	64
41	Photoactivation of Anticancer Ru Complexes in Deep Tissue: How Deep Can We Go?. <i>Chemistry - A European Journal</i> , 2017, 23, 10832-10837.	1.7	63
42	Reconfiguring surface functions using visible-light-controlled metal-ligand coordination. <i>Nature Communications</i> , 2018, 9, 3842.	5.8	59
43	Oligo Hyaluronan-Coated Silica/Hydroxyapatite Degradable Nanoparticles for Targeted Cancer Treatment. <i>Advanced Science</i> , 2019, 6, 1900716.	5.6	51
44	A color turn-on fluorescent probe for real-time detection of hydrogen sulfide and identification of food spoilage. <i>Chemical Communications</i> , 2021, 57, 5012-5015.	2.2	51
45	Smart J-aggregate of cyanine photosensitizer with the ability to target tumor and enhance photodynamic therapy efficacy. <i>Biomaterials</i> , 2021, 269, 120532.	5.7	50
46	Protein nanoparticles containing Cu(II) and DOX for efficient chemodynamic therapy via self-generation of H <sub>2</sub> O <sub>2</sub> . <i>Chinese Chemical Letters</i> , 2020, 31, 3127-3130.	4.8	49
47	Single-Molecule Förster Resonance Energy Transfer-Based Photosensitizer for Synergistic Photodynamic/Photothermal Therapy. <i>ACS Central Science</i> , 2021, 7, 327-334.	5.3	49
48	Biomimetic co-assembled nanodrug of doxorubicin and berberine suppresses chemotherapy-exacerbated breast cancer metastasis. <i>Biomaterials</i> , 2021, 271, 120716.	5.7	49
49	Synergistic Anticancer Therapy by Ovalbumin Encapsulation-Enabled Tandem Reactive Oxygen Species Generation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20008-20016.	7.2	48
50	Janus nanocarrier-based co-delivery of doxorubicin and berberine weakens chemotherapy-exacerbated hepatocellular carcinoma recurrence. <i>Acta Biomaterialia</i> , 2019, 100, 352-364.	4.1	44
51	Red-Light-Responsive Ru Complex Photosensitizer for Lysosome Localization Photodynamic Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 19572-19580.	4.0	44
52	The Self-Assembly of a Cyclometalated Palladium Photosensitizer into Protein-Stabilized Nanorods Triggers Drug Uptake In Vitro and In Vivo. <i>Journal of the American Chemical Society</i> , 2020, 142, 10383-10399.	6.6	43
53	NIR photosensitizers activated by $\beta$ -glutamyl transpeptidase for precise tumor fluorescence imaging and photodynamic therapy. <i>Science China Chemistry</i> , 2021, 64, 808-816.	4.2	43
54	A Versatile and Robust Platform for the Scalable Manufacture of Biomimetic Nanovaccines. <i>Advanced Science</i> , 2021, 8, 2002020.	5.6	43

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55	Coordination and Redox Dual-Responsive Mesoporous Organosilica Nanoparticles Amplify Immunogenic Cell Death for Cancer Chemotherapy. <i>Small</i> , 2021, 17, e2100006.	5.2	40
56	A nitroxyl-responsive near-infrared fluorescent chemosensor for visualizing H <sub>2</sub> S/NO crosstalk in biological systems. <i>Chemical Communications</i> , 2019, 55, 8583-8586.	2.2	37
57	Inducing molecular isomerization assisted by water. <i>Communications Chemistry</i> , 2019, 2, .	2.0	35
58	The nature of the different environmental sensitivity of symmetrical and unsymmetrical cyanine dyes: an experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13702.	1.3	34
59	<i>In Vivo</i> Coinstantaneous Identification of Hepatocellular Carcinoma Circulating Tumor Cells by Dual-Targeting Magnetic-Fluorescent Nanobeads. <i>Nano Letters</i> , 2021, 21, 634-641.	4.5	34
60	Radical induced quartet photosensitizers with high 1O <sub>2</sub> production for in vivo cancer photodynamic therapy. <i>Science China Chemistry</i> , 2021, 64, 488-498.	4.2	34
61	Simultaneous visualization of cysteine/homocysteine and glutathione in living cells and <i>Daphnia magna</i> via dual-signaling fluorescent chemosensor. <i>Dyes and Pigments</i> , 2019, 168, 189-196.	2.0	33
62	An Organic Nanotherapeutic Agent Self-Assembled from Cyanine and Cu (II) for Combined Photothermal and Chemodynamic Therapy. <i>Advanced Healthcare Materials</i> , 2021, 10, e2101008.	3.9	31
63	Anticancer drug delivery systems based on inorganic nanocarriers with fluorescent tracers. <i>AIChE Journal</i> , 2018, 64, 835-859.	1.8	28
64	Photoresponsive metallopolymer nanoparticles for cancer theranostics. <i>Biomaterials</i> , 2021, 275, 120915.	5.7	28
65	Highly Inoxidizable Heptamethine Cyanine-Glucose Oxidase Conjugate Nanoagent for Combination of Enhanced Photothermal Therapy and Tumor Starvation. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	28
66	A Glutathione Activatable Photosensitizer for Combined Photodynamic and Gas Therapy under Red Light Irradiation. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102017.	3.9	27
67	Accelerated antibacterial red-carbon dots with photodynamic therapy against multidrug-resistant <i>Acinetobacter baumannii</i> . <i>Science China Materials</i> , 2022, 65, 845-854.	3.5	24
68	A Sequential Dual-Model Strategy Based on Photoactivatable Metallopolymer for On-Demand Release of Photosensitizers and Anticancer Drugs. <i>Advanced Science</i> , 2021, 8, e2103334.	5.6	24
69	Mechanism and Nature of the Different Viscosity Sensitivities of Hemicyanine Dyes with Various Heterocycles. <i>ChemPhysChem</i> , 2013, 14, 1601-1608.	1.0	23
70	A glutathione activatable pro-drug-photosensitizer for combined chemotherapy and photodynamic therapy. <i>Chinese Chemical Letters</i> , 2022, 33, 4583-4586.	4.8	23
71	Reversing Multidrug Resistance by Inducing Mitochondrial Dysfunction for Enhanced Chemo-Photodynamic Therapy in Tumor. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 45259-45268.	4.0	22
72	Lighting-Up Tumor for Assisting Resection via Spraying NIR Fluorescent Probe of $\beta$ -Glutamyltranspeptidase. <i>Frontiers in Chemistry</i> , 2018, 6, 485.	1.8	21

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73	Lysozyme-targeted ratiometric fluorescent probe for SO <sub>2</sub> in living cells. <i>Dyes and Pigments</i> , 2020, 180, 108440.	2.0	20
74	Photoresponsive ruthenium-containing polymers: potential polymeric metallodrugs for anticancer phototherapy. <i>Dalton Transactions</i> , 2018, 47, 283-286.	1.6	19
75	Thiol-activated fluorescent probe for sensitive detection and imaging of proteins. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 118-123.	4.0	19
76	Sequential Enzyme Activation of a Prostate-Specific Membrane Protein-Based Nanomedicine to Target Tumor Mitochondria. <i>Advanced Functional Materials</i> , 2020, 30, 1904697.	7.8	19
77	A photosensitizer-inhibitor conjugate for photodynamic therapy with simultaneous inhibition of treatment escape pathways. <i>Biomaterials</i> , 2020, 257, 120262.	5.7	19
78	New Cy5 photosensitizers for cancer phototherapy: a low singlet-triplet gap provides high quantum yield of singlet oxygen. <i>Chemical Science</i> , 2021, 12, 13809-13816.	3.7	19
79	NIR-excited superoxide radical procreators to eradicate tumors by targeting the lysosomal membrane. <i>Journal of Materials Chemistry B</i> , 2019, 7, 4440-4450.	2.9	18
80	H-Aggregates of Prodrug-Hemicyanine Conjugate for Enhanced Photothermal Therapy and Sequential Hypoxia-Activated Chemotherapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 4, 724-732.		18
81	Hypoxia-activatable nano-prodrug for fluorescently tracking drug release in mice. <i>Science China Chemistry</i> , 2021, 64, 499-508.	4.2	17
82	Internal and External Combined Nonradiative Decay-Based Nanoagents for Photoacoustic Image-Guided Highly Efficient Photothermal Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 46353-46360.	4.0	16
83	Photocleavable core cross-linked polymeric micelles of poly(ethylene glycol) and ruthenium(II) complexes. <i>Journal of Materials Chemistry B</i> , 2021, 9, 8211-8223.	2.9	14
84	Ratiometric real-time monitoring of hydroxyapatite-doxorubicin nanotheranostic agents for on-demand tumor targeted chemotherapy. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1791-1798.	3.2	13
85	Intramolecular Copper-Containing Hyperbranched Polytriazole Assemblies for Label-Free Cellular Bioimaging and Redox-Triggered Copper Complex Delivery. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800171.	2.0	13
86	A chemical biology toolbox to overcome the hypoxic tumor microenvironment for photodynamic therapy: a review. <i>Biomaterials Science</i> , 2022, 10, 4681-4693.	2.6	13
87	Photodynamic inheritance from methylene blue to carbon dots against reduction, aggregation, and DNA interference. <i>Science China Materials</i> , 2021, 64, 2325-2336.	3.5	12
88	The mechanism of different sensitivity of meso-substituted and unsubstituted cyanine dyes in rotation-restricted environments for biomedical imaging applications. <i>RSC Advances</i> , 2014, 4, 13385.	1.7	11
89	Red Light-Triggered Polyethylene Glycol Deshielding from Photolabile Cyanine-Modified Mesoporous Silica Nanoparticles for On-Demand Drug Release. <i>ACS Applied Bio Materials</i> , 2020, 3, 8084-8093.	2.3	11
90	A Novel Photosensitizer for Lipid Droplet-Targeted Photodynamic Therapy. <i>Frontiers in Chemistry</i> , 2021, 9, 701771.	1.8	10

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91	A sulfur-substituted hemicyanine for cancer photothermal therapy without influence of intracellular viscosity. <i>Science China Chemistry</i> , 2022, 65, 821-828.	4.2	10
92	Nanostructured polymer assemblies stabilize photoactivatable anticancer ruthenium complexes under physiological conditions. <i>Journal of Inorganic Biochemistry</i> , 2020, 207, 111052.	1.5	9
93	Red-Light-Responsive Metallopolymer Nanocarriers with Conjugated and Encapsulated Drugs for Phototherapy Against Multidrug-Resistant Tumors. <i>Small</i> , 2022, 18, .	5.2	9
94	The ratiometric dual-fluorescence of near infrared absorbing aminocyanine dyes: A mechanistic study. <i>Dyes and Pigments</i> , 2017, 141, 379-387.	2.0	8
95	The photoprocess effects of an amino group located at different positions along the polymethine chain in indodicarbocyanine dyes. <i>RSC Advances</i> , 2017, 7, 30740-30746.	1.7	8
96	<i>Ex vivo</i> identification of circulating tumor cells in peripheral blood by fluorometric aptamer nanoparticles. <i>Chemical Science</i> , 2021, 12, 3314-3321.	3.7	8
97	Biodegradable Ru-Containing Polycarbonate Micelles for Photoinduced Anticancer Multitherapeutic Agent Delivery and Phototherapy Enhancement. <i>Biomacromolecules</i> , 2022, 23, 1733-1744.	2.6	8
98	Redox-responsive phenyl-functionalized polylactide micelles for enhancing Ru complexes delivery and phototherapy. <i>Chinese Chemical Letters</i> , 2023, 34, 107574.	4.8	7
99	An Unconventional Polymerization Route to Hydrophilic Fluorescent Organic Nanoparticles for Multicolor Cellular Bioimaging. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1625-1631.	1.7	4
100	Highly selective and sensitive colorimetric chemosensor based on tricarbocyanine for detection of Ag <sup>+</sup> in industrial wastewater. <i>Journal of Leather Science and Engineering</i> , 2020, 2, .	2.7	4
101	Synergistic Anticancer Therapy by Ovalbumin Encapsulation-Enabled Tandem Reactive Oxygen Species Generation. <i>Angewandte Chemie</i> , 2020, 132, 20183-20191.	1.6	4
102	Ultrasound-degradable serum albumin nanoplatform for <i>in situ</i> controlled drug release. <i>Chemical Communications</i> , 2020, 56, 7503-7506.	2.2	4
103	A Cyanine-based Liposomal Nanophotosensitizer for Enhanced Cancer Chemo-Photodynamic Therapy. <i>Chemical Research in Chinese Universities</i> , 2021, 37, 925-933.	1.3	4
104	Insights into bishemicyanines with long emission wavelengths and high sensitivity in viscous environments. <i>Chinese Chemical Letters</i> , 2020, 31, 1402-1405.	4.8	3
105	A PEGylated water-soluble fluorescent and colorimetric probe for carbon monoxide detection. <i>Analyst</i> , 2022, 147, 1798-1802.	1.7	2
106	Light-triggered dePEGylation with decreasing the diameter of hydroxyapatite nanocarriers for enhanced cellular uptake and tumor penetration. <i>Nano Select</i> , 2021, 2, 1954.	1.9	1