

# Hongyan Sun

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

114 papers	3,153 citations	34 h-index	50 g-index
128 ext. papers	3,768 ext. citations	8.2 avg, IF	5.33 L-index

#	Paper	IF	Citations
114	A minimalist fluorescent probe for differentiating Cys, Hcy and GSH in live cells. <i>Chemical Science</i> , <b>2016</b> , 7, 256-260	9.4	176
113	Reaction-Based Off-On Near-infrared Fluorescent Probe for Imaging Alkaline Phosphatase Activity in Living Cells and Mice. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 6796-6803	9.5	102
112	A highly selective and sensitive fluorescent thiol probe through dual-reactive and dual-quenching groups. <i>Chemical Communications</i> , <b>2015</b> , 51, 2029-32	5.8	96
111	Development of "Liquid-like" Copolymer Nanocoatings for Reactive Oil-Repellent Surface. <i>ACS Nano</i> , <b>2017</b> , 11, 2248-2256	16.7	87
110	A FRET-based ratiometric fluorescent probe for nitroxyl detection in living cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 5438-43	9.5	77
109	Target identification of natural and traditional medicines with quantitative chemical proteomics approaches. <i>Pharmacology &amp; Therapeutics</i> , <b>2016</b> , 162, 10-22	13.9	76
108	Activity-based protein profiling: new developments and directions in functional proteomics. <i>ChemBioChem</i> , <b>2008</b> , 9, 667-75	3.8	75
107	Interfacial Engineering of Bimetallic Ag/Pt Nanoparticles on Reduced Graphene Oxide Matrix for Enhanced Antimicrobial Activity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 8834-40	9.5	71
106	Superhydrophobic surface with hierarchical architecture and bimetallic composition for enhanced antibacterial activity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 22108-15	9.5	71
105	Peptide-Decorated Gold Nanoparticles as Functional Nano-Capping Agent of Mesoporous Silica Container for Targeting Drug Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 11204-9	9.5	69
104	Recent advances in microarray technologies for proteomics. <i>Chemistry and Biology</i> , <b>2013</b> , 20, 685-99		67
103	Total synthesis and biological evaluation of (-)-englerin A and B: synthesis of analogues with improved activity profile. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 3998-4002	16.4	67
102	A highly efficient strategy for modification of proteins at the C terminus. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 9417-21	16.4	62
101	A reaction-based near-infrared fluorescent sensor for Cu detection in aqueous buffer and its application in living cells and tissues imaging. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 94, 24-29	11.8	60
100	Molecular engineering of a mitochondrial-targeting two-photon in and near-infrared out fluorescent probe for gaseous signal molecules HS in deep tissue bioimaging. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 91, 699-705	11.8	60
99	Peptide microarray for high-throughput determination of phosphatase specificity and biology. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 1698-702	16.4	60
98	A selective fluorescent probe for thiols based on $\alpha$ -unsaturated acyl sulfonamide. <i>Chemical Communications</i> , <b>2012</b> , 48, 10672-4	5.8	59

97	Inhibitor fingerprinting of matrix metalloproteases using a combinatorial peptide hydroxamate library. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 7848-58	16.4	55
96	Site-specific immobilization of proteins in a microarray using intein-mediated protein splicing. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2005</b> , 15, 2447-51	2.9	51
95	Recent developments in microarray-based enzyme assays: from functional annotation to substrate/inhibitor fingerprinting. <i>Analytical and Bioanalytical Chemistry</i> , <b>2006</b> , 386, 416-26	4.4	50
94	Fluorescent Probes for Single-Step Detection and Proteomic Profiling of Histone Deacetylases. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 15596-15604	16.4	48
93	An iminocoumarin benzothiazole-based fluorescent probe for imaging hydrogen sulfide in living cells. <i>Talanta</i> , <b>2015</b> , 135, 149-54	6.2	47
92	A highly selective two-photon fluorogenic probe for formaldehyde and its bioimaging application in cells and zebrafish. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 241, 1050-1056	8.5	46
91	High-throughput screening of catalytically inactive mutants of protein tyrosine phosphatases (PTPs) in a phosphopeptide microarray. <i>Chemical Communications</i> , <b>2009</b> , 677-9	5.8	46
90	Construction of an alkaline phosphatase-specific two-photon probe and its imaging application in living cells and tissues. <i>Biomaterials</i> , <b>2017</b> , 140, 220-229	15.6	44
89	Rational Development of Near-Infrared Fluorophores with Large Stokes Shifts, Bright One-Photon, and Two-Photon Emissions for Bioimaging and Biosensing Applications. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 8736-8740	4.8	43
88	Simultaneous determination of flavonoid analogs in <i>Scutellariae Barbatae Herba</i> by Cyclodextrin and acetonitrile modified capillary zone electrophoresis. <i>Talanta</i> , <b>2013</b> , 105, 393-402	6.2	39
87	One-pot dual-labeling of a protein by two chemoselective reactions. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 8287-90	16.4	39
86	Phase Engineering of Nanomaterials for Clean Energy and Catalytic Applications. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2002019	21.8	39
85	Ultra-sensitive fluorescent probes for hypochlorite acid detection and exogenous/endogenous imaging of living cells. <i>Chemical Communications</i> , <b>2018</b> , 54, 7967-7970	5.8	37
84	Water-Soluble Polythiophene for Two-Photon Excitation Fluorescence Imaging and Photodynamic Therapy of Cancer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 14590-14595	9.5	36
83	Preparation of small-molecule microarrays by trans-cyclooctene tetrazine ligation and their application in the high-throughput screening of protein-protein interaction inhibitors of bromodomains. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 14060-4	16.4	36
82	Activity based fingerprinting of proteases using FRET peptides. <i>Biopolymers</i> , <b>2007</b> , 88, 141-9	2.2	36
81	The rational design of a peptide-based hydrogel responsive to H <sub>2</sub> S. <i>Chemical Communications</i> , <b>2015</b> , 51, 17273-6	5.8	35
80	A fast-response fluorescent probe for hypochlorous acid detection and its application in exogenous and endogenous HOCl imaging of living cells. <i>Chemical Communications</i> , <b>2017</b> , 53, 12349-12352	5.8	34

79	Desuccinylation-Triggered Peptide Self-Assembly: Live Cell Imaging of SIRT5 Activity and Mitochondrial Activity Modulation. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 18150-18159	16.4	34
78	Crystal Phase Control of Gold Nanomaterials by Wet-Chemical Synthesis. <i>Accounts of Chemical Research</i> , <b>2020</b> , 53, 2106-2118	24.3	34
77	An ultra-sensitive and ratiometric fluorescent probe based on the DTBET process for Hg detection and imaging applications. <i>Analyst, The</i> , <b>2019</b> , 144, 1353-1360	5	33
76	A highly sensitive fluorescent probe for imaging hydrogen sulfide in living cells. <i>Tetrahedron Letters</i> , <b>2013</b> , 54, 4826-4829	2	33
75	Rapid affinity-based fingerprinting of 14-3-3 isoforms using a combinatorial peptide microarray. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 7438-41	16.4	33
74	Fluorescent probes for detecting monoamine oxidase activity and cell imaging. <i>Organic and Biomolecular Chemistry</i> , <b>2014</b> , 12, 2033-6	3.9	32
73	Identification of the YEATS domain of GAS41 as a pH-dependent reader of histone succinylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 2365-2370	11.5	30
72	An ultra-sensitive ratiometric fluorescent probe for hypochlorous acid detection by the synergistic effect of AIE and TBET and its application of detecting exogenous/endogenous HOCl in living cells. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 5125-5131	7.3	28
71	Activity-based high-throughput determination of PTPs substrate specificity using a phosphopeptide microarray. <i>Biopolymers</i> , <b>2010</b> , 94, 810-9	2.2	27
70	Manganese-Based Materials for Rechargeable Batteries beyond Lithium-Ion. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100867	21.8	27
69	A high-resolution mitochondria-targeting ratiometric fluorescent probe for detection of the endogenous hypochlorous acid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2016</b> , 166, 129-134	4.4	26
68	A novel ratiometric two-photon fluorescent probe for imaging of Pd(2+) ions in living cells and tissues. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2016</b> , 166, 25-30	4.4	26
67	Site-specific immobilization of biomolecules by a biocompatible reaction between terminal cysteine and 2-cyanobenzothiazole. <i>Chemical Communications</i> , <b>2013</b> , 49, 8644-6	5.8	25
66	An efficient two-photon ratiometric fluorescent probe platform for dual-channel imaging of lysosomes in living cells and tissues. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 238, 274-280	8.5	25
65	NBD-based synthetic probes for sensing small molecules and proteins: design, sensing mechanisms and biological applications. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 7436-7495	58.5	25
64	Nanotoxicity of Boron Nitride Nanosheet to Bacterial Membranes. <i>Langmuir</i> , <b>2019</b> , 35, 6179-6187	4	24
63	Regioselective and Direct Azidation of Anilines via Cu(II)-Catalyzed C-H Functionalization in Water. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 11212-11217	4.2	23
62	Dual-Cross-Linked Supramolecular Polysiloxanes for Mechanically Tunable, Damage-Healable and Oil-Repellent Polymeric Coatings. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 47382-47389	9.5	23

61	In situ reduction of silver nanoparticles on hybrid polydopamine-copper phosphate nanoflowers with enhanced antimicrobial activity. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 5311-5317	7.3	22
60	Design and Synthesis of Near-infrared Fluorescent Probes for Imaging of Biological Nitroxyl. <i>Scientific Reports</i> , <b>2015</b> , 5, 16979	4.9	22
59	Peptide microarrays for high-throughput studies of Ser/Thr phosphatases. <i>Nature Protocols</i> , <b>2008</b> , 3, 1485-93	18.8	21
58	Surface modification of metal materials for high-performance electrocatalytic carbon dioxide reduction. <i>Matter</i> , <b>2021</b> , 4, 888-926	12.7	21
57	A new ratiometric two-photon fluorescent probe for imaging of lysosomes in living cells and tissues. <i>Tetrahedron</i> , <b>2016</b> , 72, 4637-4642	2.4	20
56	Ratiometric Fluorescent Probe for Monitoring Endogenous Methylglyoxal in Living Cells and Diabetic Blood Samples. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 5646-5653	7.8	19
55	Recent Advances in Synthesis and Identification of Cyclic Peptides for Bioapplications. <i>Current Topics in Medicinal Chemistry</i> , <b>2017</b> , 17, 2302-2318	3	19
54	A thiol fluorescent probe reveals the intricate modulation of cysteine's reactivity by Cu(II). <i>Talanta</i> , <b>2016</b> , 146, 477-82	6.2	18
53	Single layer linear array of microbeads for multiplexed analysis of DNA and proteins. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 54, 297-305	11.8	17
52	A general colorimetric method for detecting protease activity based on peptide-induced gold nanoparticle aggregation. <i>RSC Advances</i> , <b>2014</b> , 4, 6560-6563	3.7	17
51	Molecular engineering of d-A-d-based non-linearity fluorescent probe for quick detection of thiophenol in living cells and tissues. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 244, 958-964	8.5	16
50	Chemical Proteomic Profiling of Bromodomains Enables the Wide-Spectrum Evaluation of Bromodomain Inhibitors in Living Cells. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 11497-11505	16.4	13
49	A fluorescent molecular rotor probe for tracking plasma membranes and exosomes in living cells. <i>Chemical Communications</i> , <b>2020</b> , 56, 8480-8483	5.8	13
48	Chemical Probes Reveal Sirt2's New Function as a Robust "Eraser" of Lysine Lipoylation. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 18428-18436	16.4	13
47	Microarray immobilization of biomolecules using a fast trans-cyclooctene (TCO)-tetrazine reaction. <i>Chemical Communications</i> , <b>2014</b> , 50, 11818-21	5.8	13
46	Identification of kukoamines as the novel markers for quality assessment of Lycii Cortex. <i>Food Research International</i> , <b>2014</b> , 55, 373-380	7	13
45	Phosphopeptide microarrays for comparative proteomic profiling of cellular lysates. <i>Methods in Molecular Biology</i> , <b>2013</b> , 1002, 233-51	1.4	13
44	Two quenching groups are better than one: A robust strategy for constructing HOCl fluorescent probe with minimized background fluorescence and ultra-high sensitivity and its application of HOCl imaging in living cells and tissues. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 310, 127890	8.5	12

43	High-Throughput Screening of Substrate Specificity for Protein Tyrosine Phosphatases (PTPs) on Phosphopeptide Microarrays. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1368, 181-96	1.4	12
42	Site-selective covalent reactions on proteinogenic amino acids. <i>Current Opinion in Biotechnology</i> , <b>2017</b> , 48, 220-227	11.4	12
41	Inhibitor fingerprinting of metalloproteases using microplate and microarray platforms: an enabling technology in Catalomics. <i>Nature Protocols</i> , <b>2007</b> , 2, 2126-38	18.8	12
40	Rapid Affinity-Based Fingerprinting of 14-3-3 Isoforms Using a Combinatorial Peptide Microarray. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 7548-7551	3.6	12
39	Investigation of the Subcellular Neurotoxicity of Amyloid- $\beta$ Using a Device Integrating Microfluidic Perfusion and Chemotactic Guidance. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1600895	10.1	11
38	A Highly Efficient Strategy for Modification of Proteins at the C Terminus. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 9607-9611	3.6	11
37	Peptide Microarray for High-Throughput Determination of Phosphatase Specificity and Biology. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 1722-1726	3.6	11
36	"Stainomics": identification of mitotracker labeled proteins in mammalian cells. <i>Electrophoresis</i> , <b>2013</b> , 34, 1957-64	3.6	10
35	Small Molecule Microarrays: Applications Using Specially Tagged Chemical Libraries. <i>QSAR and Combinatorial Science</i> , <b>2006</b> , 25, 1009-1019		10
34	Thermoresponsive drug delivery to mitochondria in vivo. <i>Chemical Communications</i> , <b>2019</b> , 55, 14645-14648	3.8	10
33	Controlled cell patterning on bioactive surfaces with special wettability. <i>Journal of Bionic Engineering</i> , <b>2017</b> , 14, 440-447	2.7	9
32	Preparation of Small-Molecule Microarrays by trans-Cyclooctene Tetrazine Ligation and Their Application in the High-Throughput Screening of Protein-Protein Interaction Inhibitors of Bromodomains. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 14310-14314	3.6	9
31	A highly efficient dual-diazonium reagent for protein crosslinking and construction of a virus-based gel. <i>Organic and Biomolecular Chemistry</i> , <b>2018</b> , 16, 3353-3357	3.9	8
30	Amberlite IRA 402(OH) Mediated Green Synthesis of Novel Benzothiazole-Quinoline Conjugates as Cancer Theranostics. <i>ChemistrySelect</i> , <b>2017</b> , 2, 2480-2486	1.8	7
29	An activity-based fluorescent probe and its application for differentiating alkaline phosphatase activity in different cell lines. <i>Chemical Communications</i> , <b>2020</b> , 56, 13323-13326	5.8	7
28	A pyrene-based ratiometric fluorescent probe with a large Stokes shift for selective detection of hydrogen peroxide in living cells. <i>Journal of Pharmaceutical Analysis</i> , <b>2020</b> , 10, 490-497	14	7
27	A mitochondrion-targeting turn-on fluorescent probe detection of endogenous hydroxyl radicals in living cells and zebrafish. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 296, 126706	8.5	6
26	Quantitative Proteomics Reveals Cellular Off-Targets of a DDR1 Inhibitor. <i>ACS Medicinal Chemistry Letters</i> , <b>2020</b> , 11, 535-540	4.3	6



25	Color-Tunable Light-up Bioorthogonal Probes for In Vivo Two-Photon Fluorescence Imaging. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 4576-4582	4.8	6
24	A Peptide Stapling Strategy with Built-In Fluorescence by Direct Late-Stage C(sp <sup>3</sup> )-H Olefination of Tryptophan. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 16122-16128	4.8	6
23	Intracellular delivery of therapeutic proteins through N-terminal site-specific modification. <i>Chemical Communications</i> , <b>2020</b> , 56, 11473-11476	5.8	6
22	Controllable Cleavage of C-N Bond-Based Fluorescent and Photoacoustic Dual-Modal Probes for the Detection of HS in Living Mice.. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 2020-2025	4.1	6
21	Sensitivity improvement of kukoamine determination by complexation with dihydrogen phosphate anions in capillary zone electrophoresis. <i>Electrophoresis</i> , <b>2015</b> , 36, 1801-7	3.6	5
20	A proximity-induced covalent fluorescent probe for selective detection of bromodomain 4. <i>Chinese Chemical Letters</i> , <b>2018</b> , 29, 1147-1150	8.1	4
19	One-Pot Dual-Labeling of a Protein by Two Chemoselective Reactions. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 8437-8440	3.6	4
18	Colorimetric and Fluorescent Dual-Signal Chemosensor for Lysine and Arginine and Its Application to Detect Amines in Solid-Phase Peptide Synthesis.. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 6558-6564	4.1	4
17	Stimuli-controlled peptide self-assembly with secondary structure transitions and its application in drug release. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 4664-4671	7.8	3
16	A fluorogenic HS-triggered prodrug based on thiolysis of the NBD amine. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2019</b> , 29, 126627	2.9	2
15	A Versatile Microarray Immobilization Strategy Based on a Biorthogonal Reaction Between Tetrazine and Trans-Cyclooctene. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1518, 67-80	1.4	2
14	Novel Electrophilic Warhead Targeting a Triple-Negative Breast Cancer Driver in Live Cells Revealed by "Inverse Drug Discovery". <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 15582-15592	8.3	2
13	An activatable AIEgen probe for in-situ monitoring and long-term tracking of ferrous ions in living cells. <i>Dyes and Pigments</i> , <b>2021</b> , 190, 109271	4.6	2
12	Single-step fluorescent probes to detect deacetylation activity of HDACs through intramolecular reactions. <i>European Journal of Medicinal Chemistry</i> , <b>2021</b> , 212, 113120	6.8	2
11	Small-Molecule Microarrays <b>2013</b> , 431-454		1
10	Reaction-based fluorescent and chemiluminescent probes for formaldehyde detection and imaging.. <i>Chemical Communications</i> , <b>2022</b> ,	5.8	1
9	A dual-function chemical probe for detecting erasers of lysine lipoylation. <i>Frontiers of Chemical Science and Engineering</i> , 1	4.5	1
8	BING, a novel antimicrobial peptide isolated from Japanese medaka plasma, targets bacterial envelope stress response by suppressing cpxR expression. <i>Scientific Reports</i> , <b>2021</b> , 11, 12219	4.9	1

7	Development and application of novel electrophilic warheads in target identification and drug discovery. <i>Biochemical Pharmacology</i> , <b>2021</b> , 190, 114636	6	1
6	Peptide-Based Microarray <b>2009</b> , 139-167		1
5	Robust Artificial Interphases Constructed by a Versatile Protein-Based Binder for High-Voltage Na-Ion Battery Cathodes.. <i>Advanced Materials</i> , <b>2022</b> , e2202624	24	1
4	A reversible microarray immobilization strategy based on thiol-quinone reaction. <i>Chinese Chemical Letters</i> , <b>2021</b> , 33, 213-213	8.1	0
3	Synthesis and fluorescence properties of red-to-near-infrared-emitting push-pull dyes based on benzodioxazole scaffolds. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 8512-8517	7.3	0
2	FGFR2-BRD4 Axis Regulates Transcriptional Networks of Histone 3 Modification and Synergy Between Its Inhibitors and PD-1/PD-L1 in a TNBC Mouse Model.. <i>Frontiers in Immunology</i> , <b>2022</b> , 13, 861221	8.4	1
1	H 2 S-Responsive Small-Molecule Nanocarriers for Drug Delivery to Colorectal Tumors. <i>Advanced Therapeutics</i> , 2200044	4.9	