

Hongyan Sun

List of Publications by Year in descending order

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119
papers

4,363
citations

81900

39
h-index

133252

59
g-index

128
all docs

128
docs citations

128
times ranked

7545
citing authors

#	ARTICLE	IF	CITATIONS
1	A minimalist fluorescent probe for differentiating Cys, Hcy and GSH in live cells. <i>Chemical Science</i> , 2016, 7, 256-260.	7.4	195
2	Development of "Liquid-like" Copolymer Nanocoatings for Reactive Oil-Repellent Surface. <i>ACS Nano</i> , 2017, 11, 2248-2256.	14.6	130
3	Reaction-Based Off-On Near-infrared Fluorescent Probe for Imaging Alkaline Phosphatase Activity in Living Cells and Mice. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 6796-6803.	8.0	127
4	A highly selective and sensitive fluorescent thiol probe through dual-reactive and dual-quenching groups. <i>Chemical Communications</i> , 2015, 51, 2029-2032.	4.1	101
5	Manganese-Based Materials for Rechargeable Batteries beyond Lithium-ion. <i>Advanced Energy Materials</i> , 2021, 11, 2100867.	19.5	95
6	NBD-based synthetic probes for sensing small molecules and proteins: design, sensing mechanisms and biological applications. <i>Chemical Society Reviews</i> , 2021, 50, 7436-7495.	38.1	94
7	Target identification of natural and traditional medicines with quantitative chemical proteomics approaches. , 2016, 162, 10-22.		93
8	Peptide-Decorated Gold Nanoparticles as Functional Nano-Capping Agent of Mesoporous Silica Container for Targeting Drug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11204-11209.	8.0	91
9	Superhydrophobic Surface with Hierarchical Architecture and Bimetallic Composition for Enhanced Antibacterial Activity. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 22108-22115.	8.0	89
10	A FRET-based Ratiometric Fluorescent Probe for Nitroxyl Detection in Living Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5438-5443.	8.0	89
11	Phase Engineering of Nanomaterials for Clean Energy and Catalytic Applications. <i>Advanced Energy Materials</i> , 2020, 10, 2002019.	19.5	85
12	Desuccinylation-Triggered Peptide Self-Assembly: Live Cell Imaging of SIRT5 Activity and Mitochondrial Activity Modulation. <i>Journal of the American Chemical Society</i> , 2020, 142, 18150-18159.	13.7	84
13	Interfacial Engineering of Bimetallic Ag/Pt Nanoparticles on Reduced Graphene Oxide Matrix for Enhanced Antimicrobial Activity. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8834-8840.	8.0	81
14	Recent Advances in Microarray Technologies for Proteomics. <i>Chemistry and Biology</i> , 2013, 20, 685-699.	6.0	80
15	Activity-Based Protein Profiling: New Developments and Directions in Functional Proteomics. <i>ChemBioChem</i> , 2008, 9, 667-675.	2.6	78
16	A reaction-based near-infrared fluorescent sensor for Cu ²⁺ detection in aqueous buffer and its application in living cells and tissues imaging. <i>Biosensors and Bioelectronics</i> , 2017, 94, 24-29.	10.1	77
17	Total Synthesis and Biological Evaluation of (â~)â€Englerinâ€...A and B: Synthesis of Analogues with Improved Activity Profile. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3998-4002.	13.8	76
18	Crystal Phase Control of Gold Nanomaterials by Wet-Chemical Synthesis. <i>Accounts of Chemical Research</i> , 2020, 53, 2106-2118.	15.6	75

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19	Surface modification of metal materials for high-performance electrocatalytic carbon dioxide reduction. <i>Matter</i> , 2021, 4, 888-926.	10.0	74
20	Molecular engineering of a mitochondrial-targeting two-photon in and near-infrared out fluorescent probe for gaseous signal molecules H ₂ S in deep tissue bioimaging. <i>Biosensors and Bioelectronics</i> , 2017, 91, 699-705.	10.1	70
21	Fluorescent Probes for Single-Step Detection and Proteomic Profiling of Histone Deacetylases. <i>Journal of the American Chemical Society</i> , 2016, 138, 15596-15604.	13.7	67
22	A Highly Efficient Strategy for Modification of Proteins at the C-Terminus. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9417-9421.	13.8	66
23	Peptide Microarray for High-Throughput Determination of Phosphatase Specificity and Biology. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 1698-1702.	13.8	64
24	Inhibitor Fingerprinting of Matrix Metalloproteases Using a Combinatorial Peptide Hydroxamate Library. <i>Journal of the American Chemical Society</i> , 2007, 129, 7848-7858.	13.7	60
25	A selective fluorescent probe for thiols based on α,β -unsaturated acyl sulfonamide. <i>Chemical Communications</i> , 2012, 48, 10672.	4.1	59
26	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> , 2017, 23, 8736-8740.	3.3	58
27	Construction of an alkaline phosphatase-specific two-photon probe and its imaging application in living cells and tissues. <i>Biomaterials</i> , 2017, 140, 220-229.	11.4	57
28	Site-specific immobilization of proteins in a microarray using intein-mediated protein splicing. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 2447-2451.	2.2	55
29	A highly selective two-photon fluorogenic probe for formaldehyde and its bioimaging application in cells and zebrafish. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 1050-1056.	7.8	54
30	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> , 2018, 115, 2365-2370.	7.1	53
31	Recent developments in microarray-based enzyme assays: from functional annotation to substrate/inhibitor fingerprinting. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 386, 416-426.	3.7	52
32	An iminocoumarin benzothiazole-based fluorescent probe for imaging hydrogen sulfide in living cells. <i>Talanta</i> , 2015, 135, 149-154.	5.5	52
33	Simultaneous determination of flavonoid analogs in <i>Scutellariae Barbatae Herba</i> by β -cyclodextrin and acetonitrile modified capillary zone electrophoresis. <i>Talanta</i> , 2013, 105, 393-402.	5.5	50
34	Ultra-sensitive fluorescent probes for hypochlorite acid detection and exogenous/endogenous imaging of living cells. <i>Chemical Communications</i> , 2018, 54, 7967-7970.	4.1	50
35	Water-Soluble Polythiophene for Two-Photon Excitation Fluorescence Imaging and Photodynamic Therapy of Cancer. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 14590-14595.	8.0	49
36	High-throughput screening of catalytically inactive mutants of protein tyrosine phosphatases (PTPs) in a phosphopeptide microarray. <i>Chemical Communications</i> , 2009, , 677-679.	4.1	48

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37	Dual-Cross-Linked Supramolecular Polysiloxanes for Mechanically Tunable, Damage-Healable and Oil-Repellent Polymeric Coatings. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47382-47389.	8.0	44
38	An ultra-sensitive and ratiometric fluorescent probe based on the DTBET process for Hg ²⁺ detection and imaging applications. <i>Analyst, The</i> , 2019, 144, 1353-1360.	3.5	43
39	Fluorescent probes for detecting monoamine oxidase activity and cell imaging. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 2033.	2.8	41
40	Activity based fingerprinting of proteases using FRET peptides. <i>Biopolymers</i> , 2007, 88, 141-149.	2.4	40
41	One-Pot Dual-Labeling of a Protein by Two Chemoselective Reactions. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8287-8290.	13.8	40
42	The rational design of a peptide-based hydrogel responsive to H ₂ S. <i>Chemical Communications</i> , 2015, 51, 17273-17276.	4.1	39
43	Preparation of Small-Molecule Microarrays by <i>trans</i> -Cyclooctene Tetrazine Ligation and Their Application in the High-Throughput Screening of Protein-Protein Interaction Inhibitors of Bromodomains. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 14060-14064.	13.8	38
44	A highly sensitive fluorescent probe for imaging hydrogen sulfide in living cells. <i>Tetrahedron Letters</i> , 2013, 54, 4826-4829.	1.4	37
45	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> , 2017, 53, 12349-12352.	4.1	37
46	Chemical Probes Reveal Sirt2's New Function as a Robust "Eraser" of Lysine Lipoylation. <i>Journal of the American Chemical Society</i> , 2019, 141, 18428-18436.	13.7	37
47	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> , 2019, 7, 5125-5131.	5.8	36
48	Nanotoxicity of Boron Nitride Nanosheet to Bacterial Membranes. <i>Langmuir</i> , 2019, 35, 6179-6187.	3.5	36
49	Rapid Affinity-Based Fingerprinting of 14 ³ Isoforms Using a Combinatorial Peptide Microarray. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7438-7441.	13.8	35
50	In situ reduction of silver nanoparticles on hybrid polydopamine-copper phosphate nanoflowers with enhanced antimicrobial activity. <i>Journal of Materials Chemistry B</i> , 2017, 5, 5311-5317.	5.8	34
51	Ratiometric Fluorescent Probe for Monitoring Endogenous Methylglyoxal in Living Cells and Diabetic Blood Samples. <i>Analytical Chemistry</i> , 2019, 91, 5646-5653.	6.5	34
52	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> , 2016, 166, 129-134.	3.9	32
53	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> , 2016, 166, 25-30.	3.9	30
54	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> , 2017, 238, 274-280.	7.8	30

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55	Activity-based high-throughput determination of PTPs substrate specificity using a phosphopeptide microarray. <i>Biopolymers</i> , 2010, 94, 810-819.	2.4	29
56	Recent Advances in Synthesis and Identification of Cyclic Peptides for Bioapplications. <i>Current Topics in Medicinal Chemistry</i> , 2017, 17, 2302-2318.	2.1	28
57	Site-specific immobilization of biomolecules by a biocompatible reaction between terminal cysteine and 2-cyanobenzothiazole. <i>Chemical Communications</i> , 2013, 49, 8644.	4.1	27
58	Regioselective and Direct Azidation of Anilines via Cu(II)-Catalyzed C-H Functionalization in Water. <i>Journal of Organic Chemistry</i> , 2017, 82, 11212-11217.	3.2	27
59	An Activatable NIR Probe for the Detection and Elimination of Senescent Cells. <i>Analytical Chemistry</i> , 2022, 94, 5425-5431.	6.5	26
60	Design and Synthesis of Near-infrared Fluorescent Probes for Imaging of Biological Nitroxyl. <i>Scientific Reports</i> , 2015, 5, 16979.	3.3	25
61	A new ratiometric two-photon fluorescent probe for imaging of lysosomes in living cells and tissues. <i>Tetrahedron</i> , 2016, 72, 4637-4642.	1.9	25
62	A fluorescent molecular rotor probe for tracking plasma membranes and exosomes in living cells. <i>Chemical Communications</i> , 2020, 56, 8480-8483.	4.1	25
63	Thermoresponsive drug delivery to mitochondria <i>in vivo</i> . <i>Chemical Communications</i> , 2019, 55, 14645-14648.	4.1	24
64	Reaction-based fluorescent and chemiluminescent probes for formaldehyde detection and imaging. <i>Chemical Communications</i> , 2022, 58, 1442-1453.	4.1	24
65	Peptide microarrays for high-throughput studies of Ser/Thr phosphatases. <i>Nature Protocols</i> , 2008, 3, 1485-1493.	12.0	23
66	A general colorimetric method for detecting protease activity based on peptide-induced gold nanoparticle aggregation. <i>RSC Advances</i> , 2014, 4, 6560-6563.	3.6	23
67	Photoacoustic/Fluorescence Dual-Modality Probe for Biothiol Discrimination and Tumor Diagnosis in Cells and Mice. <i>ACS Sensors</i> , 2022, 7, 1105-1112.	7.8	23
68	An activity-based fluorescent probe and its application for differentiating alkaline phosphatase activity in different cell lines. <i>Chemical Communications</i> , 2020, 56, 13323-13326.	4.1	22
69	Controllable Cleavage of C-N Bond-Based Fluorescent and Photoacoustic Dual-Modal Probes for the Detection of H ₂ S in Living Mice. <i>ACS Applied Bio Materials</i> , 2021, 4, 2020-2025.	4.6	22
70	A thiol fluorescent probe reveals the intricate modulation of cysteine's reactivity by Cu(II). <i>Talanta</i> , 2016, 146, 477-482.	5.5	21
71	Chemical Proteomic Profiling of Bromodomains Enables the Wide-Spectrum Evaluation of Bromodomain Inhibitors in Living Cells. <i>Journal of the American Chemical Society</i> , 2019, 141, 11497-11505.	13.7	21
72	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> , 2017, 244, 958-964.	7.8	20

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73	Microarray immobilization of biomolecules using a fast trans-cyclooctene (TCO)–tetrazine reaction. <i>Chemical Communications</i> , 2014, 50, 11818-11821.	4.1	19
74	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> , 2020, 310, 127890.	7.8	19
75	Identification of kukoamines as the novel markers for quality assessment of Lycii Cortex. <i>Food Research International</i> , 2014, 55, 373-380.	6.2	18
76	Single layer linear array of microbeads for multiplexed analysis of DNA and proteins. <i>Biosensors and Bioelectronics</i> , 2014, 54, 297-305.	10.1	18
77	Site-selective covalent reactions on proteinogenic amino acids. <i>Current Opinion in Biotechnology</i> , 2017, 48, 220-227.	6.6	18
78	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> , 2020, 10, 490-497.	5.3	17
79	Robust Artificial Interphases Constructed by a Versatile Protein-Based Binder for High-Voltage Na-ion Battery Cathodes. <i>Advanced Materials</i> , 2022, 34, e2202624.	21.0	17
80	Investigation of the Subcellular Neurotoxicity of Amyloid β Using a Device Integrating Microfluidic Perfusion and Chemotactic Guidance. <i>Advanced Healthcare Materials</i> , 2017, 6, 1600895.	7.6	16
81	Development and application of novel electrophilic warheads in target identification and drug discovery. <i>Biochemical Pharmacology</i> , 2021, 190, 114636.	4.4	16
82	Inhibitor fingerprinting of metalloproteases using microplate and microarray platforms: an enabling technology in Catalomics. <i>Nature Protocols</i> , 2007, 2, 2126-2138.	12.0	14
83	Phosphopeptide Microarrays for Comparative Proteomic Profiling of Cellular Lysates. <i>Methods in Molecular Biology</i> , 2013, 1002, 233-251.	0.9	14
84	High-Throughput Screening of Substrate Specificity for Protein Tyrosine Phosphatases (PTPs) on Phosphopeptide Microarrays. <i>Methods in Molecular Biology</i> , 2016, 1368, 181-196.	0.9	14
85	Controlled cell patterning on bioactive surfaces with special wettability. <i>Journal of Bionic Engineering</i> , 2017, 14, 440-447.	5.0	13
86	A Peptide Stapling Strategy with Built-in Fluorescence by Direct Late-Stage C(sp ²)–H Olefination of Tryptophan. <i>Chemistry - A European Journal</i> , 2020, 26, 16122-16128.	3.3	13
87	Intracellular delivery of therapeutic proteins through N-terminal site-specific modification. <i>Chemical Communications</i> , 2020, 56, 11473-11476.	4.1	13
88	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> , 2021, 4, 6558-6564.	4.6	13
89	Small Molecule Microarrays: Applications Using Specially Tagged Chemical Libraries. <i>QSAR and Combinatorial Science</i> , 2006, 25, 1009-1019.	1.4	12
90	–Stainomics– Identification of mitotracker labeled proteins in mammalian cells. <i>Electrophoresis</i> , 2013, 34, 1957-1964.	2.4	12

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91	A mitochondrion-targeting turn-on fluorescent probe detection of endogenous hydroxyl radicals in living cells and zebrafish. <i>Sensors and Actuators B: Chemical</i> , 2019, 296, 126706.	7.8	12
92	Color-tunable Light-up Bioorthogonal Probes for In Vivo Two-photon Fluorescence Imaging. <i>Chemistry - A European Journal</i> , 2020, 26, 4576-4582.	3.3	12
93	Chemical Biology Tools for Protein Lysine Acylation. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	12
94	A highly efficient dual-diazonium reagent for protein crosslinking and construction of a virus-based gel. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 3353-3357.	2.8	10
95	Next Generation of Small-Molecule Fluorogenic Probes for Bioimaging. <i>Biochemistry</i> , 2020, 59, 216-217.	2.5	10
96	Quantitative Proteomics Reveals Cellular Off-Targets of a DDR1 Inhibitor. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 535-540.	2.8	10
97	An activatable AIEgen probe for in-situ monitoring and long-term tracking of ferrous ions in living cells. <i>Dyes and Pigments</i> , 2021, 190, 109271.	3.7	10
98	Novel Electrophilic Warhead Targeting a Triple-Negative Breast Cancer Driver in Live Cells Revealed by Inverse Drug Discovery. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 15582-15592.	6.4	10
99	Amberlite IRA 402(OH) Mediated Green Synthesis of Novel Benzothiazole-quinoline Conjugates as Cancer Theranostics. <i>ChemistrySelect</i> , 2017, 2, 2480-2486.	1.5	9
100	Single-step fluorescent probes to detect deacetylation activity of HDACs through intramolecular reactions. <i>European Journal of Medicinal Chemistry</i> , 2021, 212, 113120.	5.5	9
101	A proximity-induced covalent fluorescent probe for selective detection of bromodomain 4. <i>Chinese Chemical Letters</i> , 2018, 29, 1147-1150.	9.0	6
102	Synthesis and fluorescence properties of red-to-near-infrared-emitting push-pull dyes based on benzodioxazole scaffolds. <i>Journal of Materials Chemistry B</i> , 2021, 9, 8512-8517.	5.8	6
103	Shape Regulation of CeO ₂ Nanozymes Boosts Reaction Specificity and Activity. <i>European Journal of Inorganic Chemistry</i> , 2022, 2022, .	2.0	6
104	Sensitivity improvement of kukoamine determination by complexation with dihydrogen phosphate anions in capillary zone electrophoresis. <i>Electrophoresis</i> , 2015, 36, 1801-1807.	2.4	5
105	BING, a novel antimicrobial peptide isolated from Japanese medaka plasma, targets bacterial envelope stress response by suppressing cpxR expression. <i>Scientific Reports</i> , 2021, 11, 12219.	3.3	5
106	Stimuli-controlled peptide self-assembly with secondary structure transitions and its application in drug release. <i>Materials Chemistry Frontiers</i> , 2021, 5, 4664-4671.	5.9	5
107	A fluorogenic H ₂ S-triggered prodrug based on thiolysis of the NBD amine. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019, 29, 126627.	2.2	4
108	A dual-function chemical probe for detecting erasers of lysine lipoylation. <i>Frontiers of Chemical Science and Engineering</i> , 0, , 1.	4.4	3

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109	Chemical Biology Tools for Protein Lysine Acylation. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	3
110	Development of hetero-triaryls as a new chemotype for subtype-selective and potent Sirt5 inhibition. <i>European Journal of Medicinal Chemistry</i> , 2022, 240, 114594.	5.5	3
111	A Versatile Microarray Immobilization Strategy Based on a Biorthogonal Reaction Between Tetrazine and Trans-Cyclooctene. <i>Methods in Molecular Biology</i> , 2017, 1518, 67-80.	0.9	2
112	Recent Advances in Strategies and Tools for Efficient Drug Discovery and Delivery. <i>Current Medicinal Chemistry</i> , 2019, 26, 2232-2233.	2.4	2
113	A reversible microarray immobilization strategy based on thiol-quinone reaction. <i>Chinese Chemical Letters</i> , 2021, 33, 213-213.	9.0	1
114	Peptide-Based Microarray. , 2009, , 139-167.		1
115	Characterization and Preclinical Perspectives of Organic Small Molecule Drug Metabolites in Drug-drug Interactions. <i>Current Organic Chemistry</i> , 2016, 20, 1827-1834.	1.6	1
116	A Graphene Oxideâ€based Covalent Resorufinâ€Conjugated Fluorescence â€OFFâ€ONâ€Probe for Detection of Hydrazine. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	3.3	1
117	H₂Sâ€Responsive Smallâ€Molecule Nanocarriers for Drug Delivery to Colorectal Tumors. <i>Advanced Therapeutics</i> , 2022, 5, .	3.2	1
118	Editorial: <i>Frontiers in Chemistry-Rising Stars: Asia</i> . <i>Frontiers in Chemistry</i> , 2021, 9, 811459.	3.6	0
119	FGFR2â€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> , 2022, 13, 861221.	4.8	0