Xing Chen

List of Publications by Year
in descending order

89 papers	4,343 citations	117625 34 h-index	118850 62 g-index
103 all docs	103 docs citations	103 times ranked	4949 citing authors

#	Article	IF	Citations
1	A Photocaged Azidosugar for <scp>Lightâ€Controlled</scp> Metabolic Labeling of <scp>Cellâ€Surface</scp> Sialoglycans. Chinese Journal of Chemistry, 2022, 40, 806-812.	4.9	7
2	Sparse deconvolution improves the resolution of live-cell super-resolution fluorescence microscopy. Nature Biotechnology, 2022, 40, 606-617.	17.5	140
3	An Optimized Isotopic Photocleavable Tagging Strategy for Site-Specific and Quantitative Profiling of Protein O-GlcNAcylation in Colorectal Cancer Metastasis. ACS Chemical Biology, 2022, 17, 513-520.	3.4	11
4	Wolf Prize in Chemistry 2022: A Celebration for Chemical Biology. ACS Chemical Biology, 2022, , .	3.4	1
5	Optical Cell Tagging for Spatially Resolved Singleâ€Cell RNA Sequencing. Angewandte Chemie - International Edition, 2022, 61, e202113929.	13.8	7
6	Optical Cell Tagging for Spatially Resolved Singleâ€Cell RNA Sequencing. Angewandte Chemie, 2022, 134, .	2.0	0
7	Cell-type-specific labeling and profiling of glycans in living mice. Nature Chemical Biology, 2022, 18, 625-633.	8.0	21
8	O-GlcNAcylation modulates liquidâ€“liquid phase separation of SynGAP/PSD-95. Nature Chemistry, 2022, 14, 831-840.	13.6	27
9	<i>In Situ</i> Probe of the Hydrogen Oxidation Reaction Intermediates on PtRu a Bimetallic Catalyst Surface by Coreâ€“Shell Nanoparticle-Enhanced Raman Spectroscopy. Nano Letters, 2022, 22, 5544-5552.	9.1	32
10	Chemical Tagging of Protein Lipoylation. Angewandte Chemie - International Edition, 2021, 60, 4028-4033.	13.8	13
11	Grapheneâ€coated Au nanoparticleâ€enhanced Raman spectroscopy. Journal of Raman Spectroscopy, 2021, 52, 439-445.	2.5	14
12	Click-ExM enables expansion microscopy for all biomolecules. Nature Methods, 2021, 18, 107-113.	19.0	91
13	Glycoengineering of NK Cells with Glycan Ligands of CD22 and Selectins for Bâ€Cell Lymphoma Therapy. Angewandte Chemie - International Edition, 2021, 60, 3603-3610.	13.8	44
14	Chemical Tagging of Protein Lipoylation. Angewandte Chemie, 2021, 133, 4074-4079.	2.0	3
15	Molecular Insight of the Critical Role of Ni in Pt-Based Nanocatalysts for Improving the Oxygen Reduction Reaction Probed Using an <i>In Situ</i> SERS Borrowing Strategy. Journal of the American Chemical Society, 2021, 143, 1318-1322.	13.7	105
16	Quantitative and Site-Specific Chemoproteomic Profiling of Protein O-GlcNAcylation in the Cell Cycle. ACS Chemical Biology, 2021, 16, 1917-1923.	3.4	17
17	Live-Cell Imaging of NADPH Production from Specific Pathways. CCS Chemistry, 2021, 3, 1642-1648.	7.8	5
18	Glycan Labeling and Analysis in Cells and In Vivo. Annual Review of Analytical Chemistry, 2021, 14, 363-387.	5.4	41

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19	Quantitative chemoproteomics reveals O-GlcNAcylation of cystathionine Î³-lyase (CSE) represses trophoblast syncytialization. Cell Chemical Biology, 2021, 28, 788-801.e5.	5.2	21
20	Ligand-Free Fabrication of Ag Nanoassemblies for Highly Sensitive and Reproducible Surface-Enhanced Raman Scattering Sensing of Antibiotics. ACS Applied Materials & Interfaces, 2021, 13, 1766-1772.	8.0	11
21	Glycoengineering of NK Cells with Glycan Ligands of CD22 and Selectins for Bâ€Cell Lymphoma Therapy. Angewandte Chemie, 2021, 133, 3647-3654.	2.0	2
22	Chemoproteomic Profiling of O-GlcNAcylation in <i>Caenorhabditis elegans</i>. Biochemistry, 2020, 59, 3129-3134.	2.5	10
23	<i>Inâ€situ</i> SHINERS Study of the Size and Composition Effect of Ptâ€based Nanocatalysts in Catalytic Hydrogenation. ChemCatChem, 2020, 12, 75-79.	3.7	24
24	Metabolic RNA labeling for probing RNA dynamics in bacteria. Nucleic Acids Research, 2020, 48, 12566-12576.	14.5	17
25	Raman Imaging Shines a Light on Neurodegenerative Disorders. ACS Central Science, 2020, 6, 459-460.	11.3	2
26	Protein S-Glyco-Modification through an Eliminationâ€"Addition Mechanism. Journal of the American Chemical Society, 2020, 142, 9382-9388.	13.7	79
27	Enhancing Catalytic Activity and Selectivity by Plasmon-Induced Hot Carriers. IScience, 2020, 23, 101107.	4.1	4
28	O-GlcNAcylation of myosin phosphatase targeting subunit 1 (MYPT1) dictates timely disjunction of centrosomes. Journal of Biological Chemistry, 2020, 295, 7341-7349.	3.4	19
29	S-glycosylation-based cysteine profiling reveals regulation of glycolysis by itaconate. Nature Chemical Biology, 2019, 15, 983-991.	8.0	179
30	Next-generation unnatural monosaccharides reveal that ESRRB O-GlcNAcylation regulates pluripotency of mouse embryonic stem cells. Nature Communications, 2019, 10, 4065.	12.8	95
31	9-Azido Analogues of Three Sialic Acid Forms for Metabolic Remodeling of Cell-Surface Sialoglycans. ACS Chemical Biology, 2019, 14, 2141-2147.	3.4	9
32	Gap-Junction-Dependent Labeling of Nascent Proteins in Multicellular Networks. ACS Chemical Biology, 2019, 14, 182-185.	3.4	6
33	Assessing the viability of transplanted gut microbiota by sequential tagging with D-amino acid-based metabolic probes. Nature Communications, 2019, 10, 1317.	12.8	68
34	Legionella effector SetA as a general O-glucosyltransferase for eukaryotic proteins. Nature Chemical Biology, 2019, 15, 213-216.	8.0	21
35	Metabolic glycan labeling-assisted discovery of cell-surface markers for primary neural stem and progenitor cells. Chemical Communications, 2018, 54, 5486-5489.	4.1	2
36	Transcriptome-wide discovery of coding and noncoding RNA-binding proteins. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E3879-E3887.	7.1	138

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37	Antibiotics-based fluorescent probes for selective labeling of Gram-negative and Gram-positive bacteria in living microbiotas. Science China Chemistry, 2018, 61, 792-796.	8.2	25
38	Mechanistic Investigation and Multiplexing of Liposome-Assisted Metabolic Glycan Labeling. Journal of the American Chemical Society, 2018, 140, 3592-3602.	13.7	48
39	Hybrid Indicators for Fast and Sensitive Voltage Imaging. Angewandte Chemie - International Edition, 2018, 57, 3949-3953.	13.8	34
40	RÃ¼cktitelbild: Artificial Cysteine Sâ€Glycosylation Induced by Perâ€Oâ€Acetylated Unnatural Monosaccharides during Metabolic Glycan Labeling (Angew. Chem. 7/2018). Angewandte Chemie, 2018, 130, 2024-2024.	2.0	0
41	Artificial Cysteine Sâ€Glycosylation Induced by Perâ€Oâ€Acetylated Unnatural Monosaccharides during Metabolic Glycan Labeling. Angewandte Chemie, 2018, 130, 1835-1838.	2.0	27
42	Detecting the Sweet Biomarker on Cancer Cells. ACS Central Science, 2018, 4, 428-430.	11.3	3
43	Artificial Cysteine Sâ€Glycosylation Induced by Perâ€Oâ€Acetylated Unnatural Monosaccharides during Metabolic Glycan Labeling. Angewandte Chemie - International Edition, 2018, 57, 1817-1820.	13.8	148
44	Capture and Identification of RNA-binding Proteins by Using Click Chemistry-assisted RNA-interactome Capture (CARIC) Strategy. Journal of Visualized Experiments, 2018, , .	0.3	9
45	Carbon Trading Scheme in the People's Republic of China: Evaluating the Performance of Seven Pilot Projects. Asian Development Review, 2018, 35, 131-152.	1.5	8
46	Quantitative Profiling of Protein O-GlcNAcylation Sites by an Isotope-Tagged Cleavable Linker. ACS Chemical Biology, 2018, 13, 1983-1989.	3.4	73
47	Liposome-Assisted Metabolic Glycan Labeling With Cell and Tissue Selectivity. Methods in Enzymology, 2018, 598, 321-353.	1.0	7
48	Ag nanoparticles inhibit the growth of the bryophyte, Physcomitrella patens. Ecotoxicology and Environmental Safety, 2018, 164, 739-748.	6.0	30
49	Implementation of acoustic demultiplexing with membrane-type metasurface in low frequency range. Applied Physics Letters, 2017, 110, .	3.3	34
50	Expanding the Scope of Metabolic Glycan Labeling in <i>Arabidopsis thaliana</i>. ChemBioChem, 2017, 18, 1286-1296.	2.6	24
51	Magnetic-control multifunctional acoustic metasurface for reflected wave manipulation at deep subwavelength scale. Scientific Reports, 2017, 7, 9050.	3.3	46
52	Editorial overview: Molecular imaging for seeing chemistry in biology. Current Opinion in Chemical Biology, 2017, 39, iv-v.	6.1	1
53	Quantitative time-resolved chemoproteomics reveals that stable <i>O</i> -GlcNAc regulates box C/D snoRNP biogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E6749-E6758.	7.1	81
54	Biological behaviors and chemical fates of Ag2Se quantum dots in vivo: the effect of surface chemistry. Toxicology Research, 2017, 6, 693-704.	2.1	24

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55	Selective Imaging of Gram-Negative and Gram-Positive Microbiotas in the Mouse Gut. Biochemistry, 2017, 56, 3889-3893.	2.5	65
56	Metabolic Labeling and Imaging of Nâ€Linked Glycans in <i>Arabidopsis Thaliana</i>. Angewandte Chemie - International Edition, 2016, 55, 9301-9305.	13.8	60
57	In vivo metabolic labeling of sialoglycans in the mouse brain by using a liposome-assisted bioorthogonal reporter strategy. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5173-5178.	7.1	122
58	Metabolic Remodeling of Cellâ€Surface Sialic Acids: Principles, Applications, and Recent Advances. ChemBioChem, 2016, 17, 11-27.	2.6	100
59	Metabolic Labeling and Imaging of Nâ€Linked Glycans in <i>Arabidopsis Thaliana</i>. Angewandte Chemie, 2016, 128, 9447-9451.	2.0	21
60	Nitrilase-Activatable Noncanonical Amino Acid Precursors for Cell-Selective Metabolic Labeling of Proteomes. ACS Chemical Biology, 2016, 11, 3273-3277.	3.4	20
61	Blood Clearance, Distribution, Transformation, Excretion, and Toxicity of Near-Infrared Quantum Dots Ag₂Se in Mice. ACS Applied Materials & Interfaces, 2016, 8, 17859-17869.	8.0	68
62	Near-Infrared Light Activation of Proteins Inside Living Cells Enabled by Carbon Nanotube-Mediated Intracellular Delivery. ACS Applied Materials & Interfaces, 2016, 8, 4500-4507.	8.0	25
63	Structure of protein O-mannose kinase reveals a unique active site architecture. ELife, 2016, 5, .	6.0	33
64	Proteinâ€Specific Imaging of Oâ€GlcNAcylation in Single Cells. ChemBioChem, 2015, 16, 2571-2575.	2.6	52
65	Carbon nanotube-assisted optical activation of TGF-Î² signalling by near-infrared light. Nature Nanotechnology, 2015, 10, 465-471.	31.5	57
66	Chemical Remodeling of Cellâ€Surface Sialic Acids through a Palladiumâ€Triggered Bioorthogonal Elimination Reaction. Angewandte Chemie - International Edition, 2015, 54, 5364-5368.	13.8	92
67	Dynamic Sialylation in Transforming Growth Factor-Î² (TGF-Î²)-induced Epithelial to Mesenchymal Transition. Journal of Biological Chemistry, 2015, 290, 12000-12013.	3.4	64
68	Protein-specific imaging of posttranslational modifications. Current Opinion in Chemical Biology, 2015, 28, 156-163.	6.1	19
69	Live-cell bioorthogonal Raman imaging. Current Opinion in Chemical Biology, 2015, 24, 91-96.	6.1	23
70	Targeted Imaging and Proteomic Analysis of Tumorâ€Associated Glycans in Living Animals. Angewandte Chemie - International Edition, 2014, 53, 14082-14086.	13.8	71
71	SERS Imaging of Cellâ€Surface Biomolecules Metabolically Labeled with Bioorthogonal Raman Reporters. Chemistry - an Asian Journal, 2014, 9, 2040-2044.	3.3	25
72	A Cis-Membrane FRET-Based Method for Protein-Specific Imaging of Cell-Surface Glycans. Journal of the American Chemical Society, 2014, 136, 679-687.	13.7	101

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73	The multiple antibiotic resistance regulator MarR is a copper sensor in Escherichia coli. Nature Chemical Biology, 2014, 10, 21-28.	8.0	128
74	Glycan Imaging in Intact Rat Hearts and Glycoproteomic Analysis Reveal the Upregulation of Sialylation during Cardiac Hypertrophy. Journal of the American Chemical Society, 2014, 136, 17468-17476.	13.7	73
75	Liveâ€Cell Stimulated Raman Scattering Imaging of Alkyneâ€Tagged Biomolecules. Angewandte Chemie - International Edition, 2014, 53, 5827-5831.	13.8	169
76	Pathogen blocks host death receptor signalling by arginine GlcNAcylation of death domains. Nature, 2013, 501, 242-246.	27.8	247
77	Cell-selective metabolic labeling of biomolecules with bioorthogonal functionalities. Current Opinion in Chemical Biology, 2013, 17, 747-752.	6.1	46
78	Bifunctional Unnatural Sialic Acids for Dual Metabolic Labeling of Cell-Surface Sialylated Glycans. Journal of the American Chemical Society, 2013, 135, 9244-9247.	13.7	104
79	Innentitelbild: A Bioorthogonal Raman Reporter Strategy for SERS Detection of Glycans on Live Cells (Angew. Chem. 28/2013). Angewandte Chemie, 2013, 125, 7184-7184.	2.0	2
80	A Bioorthogonal Raman Reporter Strategy for SERS Detection of Glycans on Live Cells. Angewandte Chemie - International Edition, 2013, 52, 7266-7271.	13.8	132
81	Cell-Selective Metabolic Glycan Labeling Based on Ligand-Targeted Liposomes. Journal of the American Chemical Society, 2012, 134, 9914-9917.	13.7	139
82	Theoretical Studies on the Photoinduced Rearrangement Mechanism of Î±â€Santonin. ChemPhysChem, 2012, 13, 353-362.	2.1	7
83	Protein photocrosslinking reveals dimer of dimers formation on MarR protein in Escherichia coli. Science China Chemistry, 2012, 55, 106-111.	8.2	4
84	Zero-point vibrational corrections to isotropic hyperfine coupling constants in polyatomic molecules. Physical Chemistry Chemical Physics, 2011, 13, 696-707.	2.8	14
85	Role of the³(Ï€Ï€*) State in Photolysis of Lumisantonin: Insight from ab Initio Studies. Journal of Physical Chemistry A, 2011, 115, 7815-7822.	2.5	2
86	Theoretical study on the dual fluorescence of 2-(4-cyanophenyl)-N,N-dimethylaminoethane and its deactivation pathway. Journal of Chemical Physics, 2009, 130, 144307.	3.0	7
87	Metabolic Labeling of Sialic Acids in Living Animals with Alkynyl Sugars. Angewandte Chemie - International Edition, 2009, 48, 4030-4033.	13.8	195
88	Theoretical studies on structures and electronic spectra of linear carbon chains C_{2<i>n</i>}H⁺ (<i>n</i> = 1âˆ’5). International Journal of Quantum Chemistry, 2009, 109, 1116-1126.	2.0	4
89	Theoretical Study on the Singlet Excited State of Pterin and Its Deactivation Pathway. Journal of Physical Chemistry A, 2007, 111, 9255-9262.	2.5	20