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	Pathogen blocks host death receptor signalling by arginine GlcNAcylation of death domains. Nature, 2013, 501, 242-246.	27.8	247
2	Metabolic Labeling of Sialic Acids in Living Animals with Alkynyl Sugars. Angewandte Chemie - International Edition, 2009, 48, 4030-4033.	13.8	195
3	S-glycosylation-based cysteine profiling reveals regulation of glycolysis by itaconate. Nature Chemical Biology, 2019, 15, 983-991.	8.0	179
4	Liveâ€Cell Stimulated Raman Scattering Imaging of Alkyneâ€Tagged Biomolecules. Angewandte Chemie - International Edition, 2014, 53, 5827-5831.	13.8	169
5	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
6	Sparse deconvolution improves the resolution of live-cell super-resolution fluorescence microscopy. Nature Biotechnology, 2022, 40, 606-617.	17.5	140
7	Cell-Selective Metabolic Glycan Labeling Based on Ligand-Targeted Liposomes. Journal of the American Chemical Society, 2012, 134, 9914-9917.	13.7	139
8	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
9	A Bioorthogonal Raman Reporter Strategy for SERS Detection of Glycans on Live Cells. Angewandte Chemie - International Edition, 2013, 52, 7266-7271.	13.8	132
10	The multiple antibiotic resistance regulator MarR is a copper sensor in Escherichia coli. Nature Chemical Biology, 2014, 10, 21-28.	8.0	128
11	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
12	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
13	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
14	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
15	Metabolic Remodeling of Cellâ€Surface Sialic Acids: Principles, Applications, and Recent Advances. ChemBioChem, 2016, 17, 11-27.	2.6	100
16	Next-generation unnatural monosaccharides reveal that ESRRB O-GlcNAcylation regulates pluripotency of mouse embryonic stem cells. Nature Communications, 2019, 10, 4065.	12.8	95
17	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
18	Click-ExM enables expansion microscopy for all biomolecules. Nature Methods, 2021, 18, 107-113.	19.0	91

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19	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
20	Protein S-Glyco-Modification through an Eliminationâ€“Addition Mechanism. Journal of the American Chemical Society, 2020, 142, 9382-9388.	13.7	79
21	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
22	Quantitative Profiling of Protein O-GlcNAcylation Sites by an Isotope-Tagged Cleavable Linker. ACS Chemical Biology, 2018, 13, 1983-1989.	3.4	73
23	Targeted Imaging and Proteomic Analysis of Tumorâ€Associated Glycans in Living Animals. Angewandte Chemie - International Edition, 2014, 53, 14082-14086.	13.8	71
24	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
25	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
26	Selective Imaging of Gram-Negative and Gram-Positive Microbiotas in the Mouse Gut. Biochemistry, 2017, 56, 3889-3893.	2.5	65
27	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
28	Metabolic Labeling and Imaging of Nâ€Linked Glycans in <i>Arabidopsis Thaliana</i>. Angewandte Chemie - International Edition, 2016, 55, 9301-9305.	13.8	60
29	Carbon nanotube-assisted optical activation of TGF-Î² signalling by near-infrared light. Nature Nanotechnology, 2015, 10, 465-471.	31.5	57
30	Proteinâ€Specific Imaging of Oâ€GlcNAcylation in Single Cells. ChemBioChem, 2015, 16, 2571-2575.	2.6	52
31	Mechanistic Investigation and Multiplexing of Liposome-Assisted Metabolic Glycan Labeling. Journal of the American Chemical Society, 2018, 140, 3592-3602.	13.7	48
32	Cell-selective metabolic labeling of biomolecules with bioorthogonal functionalities. Current Opinion in Chemical Biology, 2013, 17, 747-752.	6.1	46
33	Magnetic-control multifunctional acoustic metasurface for reflected wave manipulation at deep subwavelength scale. Scientific Reports, 2017, 7, 9050.	3.3	46
34	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
35	Glycan Labeling and Analysis in Cells and In Vivo. Annual Review of Analytical Chemistry, 2021, 14, 363-387.	5.4	41
36	Implementation of acoustic demultiplexing with membrane-type metasurface in low frequency range. Applied Physics Letters, 2017, 110, .	3.3	34

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37	Hybrid Indicators for Fast and Sensitive Voltage Imaging. Angewandte Chemie - International Edition, 2018, 57, 3949-3953.	13.8	34
38	Structure of protein O-mannose kinase reveals a unique active site architecture. ELife, 2016, 5, .	6.0	33
39	<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
40	Ag nanoparticles inhibit the growth of the bryophyte, Physcomitrella patens. Ecotoxicology and Environmental Safety, 2018, 164, 739-748.	6.0	30
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	O-GlcNAcylation modulates liquidâ€"liquid phase separation of SynGAP/PSD-95. Nature Chemistry, 2022, 14, 831-840.	13.6	27
43	SERS Imaging of Cellâ€Surface Biomolecules Metabolically Labeled with Bioorthogonal Raman Reporters. Chemistry - an Asian Journal, 2014, 9, 2040-2044.	3.3	25
44	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
45	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
46	Expanding the Scope of Metabolic Glycan Labeling in <i>Arabidopsis thaliana</i>. ChemBioChem, 2017, 18, 1286-1296.	2.6	24
47	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
48	<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
49	Live-cell bioorthogonal Raman imaging. Current Opinion in Chemical Biology, 2015, 24, 91-96.	6.1	23
50	Metabolic Labeling and Imaging of Nâ€Linked Glycans in <i>Arabidopsis Thaliana</i>. Angewandte Chemie, 2016, 128, 9447-9451.	2.0	21
51	Legionella effector SetA as a general O-glucosyltransferase for eukaryotic proteins. Nature Chemical Biology, 2019, 15, 213-216.	8.0	21
52	Quantitative chemoproteomics reveals O-GlcNAcylation of cystathionine Î³-lyase (CSE) represses trophoblast syncytialization. Cell Chemical Biology, 2021, 28, 788-801.e5.	5.2	21
53	Cell-type-specific labeling and profiling of glycans in living mice. Nature Chemical Biology, 2022, 18, 625-633.	8.0	21
54	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

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55	Nitrilase-Activatable Noncanonical Amino Acid Precursors for Cell-Selective Metabolic Labeling of Proteomes. ACS Chemical Biology, 2016, 11, 3273-3277.	3.4	20
56	Protein-specific imaging of posttranslational modifications. Current Opinion in Chemical Biology, 2015, 28, 156-163.	6.1	19
57	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
58	Metabolic RNA labeling for probing RNA dynamics in bacteria. Nucleic Acids Research, 2020, 48, 12566-12576.	14.5	17
59	Quantitative and Site-Specific Chemoproteomic Profiling of Protein O-GlcNAcylation in the Cell Cycle. ACS Chemical Biology, 2021, 16, 1917-1923.	3.4	17
60	Zero-point vibrational corrections to isotropic hyperfine coupling constants in polyatomic molecules. Physical Chemistry Chemical Physics, 2011, 13, 696-707.	2.8	14
61	Grapheneâ€coated Au nanoparticleâ€enhanced Raman spectroscopy. Journal of Raman Spectroscopy, 2021, 52, 439-445.	2.5	14
62	Chemical Tagging of Protein Lipoylation. Angewandte Chemie - International Edition, 2021, 60, 4028-4033.	13.8	13
63	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
64	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
65	Chemoproteomic Profiling of O-GlcNAcylation in <i>Caenorhabditis elegans</i>. Biochemistry, 2020, 59, 3129-3134.	2.5	10
66	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
67	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
68	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
69	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
70	Theoretical Studies on the Photoinduced Rearrangement Mechanism of Î±â€Santonin. ChemPhysChem, 2012, 13, 353-362.	2.1	7
71	Liposome-Assisted Metabolic Glycan Labeling With Cell and Tissue Selectivity. Methods in Enzymology, 2018, 598, 321-353.	1.0	7
72	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

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73	Optical Cell Tagging for Spatially Resolved Singleâ€Cell RNA Sequencing. Angewandte Chemie - International Edition, 2022, 61, e202113929.	13.8	7
74	Gap-Junction-Dependent Labeling of Nascent Proteins in Multicellular Networks. ACS Chemical Biology, 2019, 14, 182-185.	3.4	6
75	Live-Cell Imaging of NADPH Production from Specific Pathways. CCS Chemistry, 2021, 3, 1642-1648.	7.8	5
76	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
77	Protein photocrosslinking reveals dimer of dimers formation on MarR protein in Escherichia coli. Science China Chemistry, 2012, 55, 106-111.	8.2	4
78	Enhancing Catalytic Activity and Selectivity by Plasmon-Induced Hot Carriers. IScience, 2020, 23, 101107.	4.1	4
79	Detecting the Sweet Biomarker on Cancer Cells. ACS Central Science, 2018, 4, 428-430.	11.3	3
80	Chemical Tagging of Protein Lipoylation. Angewandte Chemie, 2021, 133, 4074-4079.	2.0	3
81	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
82	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
83	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
84	Raman Imaging Shines a Light on Neurodegenerative Disorders. ACS Central Science, 2020, 6, 459-460.	11.3	2
85	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
86	Editorial overview: Molecular imaging for seeing chemistry in biology. Current Opinion in Chemical Biology, 2017, 39, iv-v.	6.1	1
87	Wolf Prize in Chemistry 2022: A Celebration for Chemical Biology. ACS Chemical Biology, 2022, , .	3.4	1
88	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
89	Optical Cell Tagging for Spatially Resolved Singleâ€Cell RNA Sequencing. Angewandte Chemie, 2022, 134, .	2.0	0