Ronghu Wu

List of Publications by Year
in descending order

83 papers	3,442 citations	147801 31 h-index	155660 55 g-index
87 all docs	87 docs citations	87 times ranked	4817 citing authors

#	Article	IF	Citations
1	Systematic characterization of extracellular glycoproteins using mass spectrometry. Mass Spectrometry Reviews, 2023, 42, 519-545.	5.4	10
2	Simultaneously Identifying and Distinguishing Glycoproteins with O-GlcNAc and O-GalNAc (the Tn) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	6.5	10
3	Spatial and temporal proteomics reveals the distinct distributions and dynamics of O-GlcNAcylated proteins. Cell Reports, 2022, 39, 110946.	6.4	12
4	Enhancing Comprehensive Analysis of Secreted Glycoproteins from Cultured Cells without Serum Starvation. Analytical Chemistry, 2021, 93, 2694-2705.	6.5	15
5	Unraveling the surface glycoprotein interaction network by integrating chemical crosslinking with MS-based proteomics. Chemical Science, 2021, 12, 2146-2155.	7.4	10
6	Timeâ€Resolved and Comprehensive Analysis of Surface Glycoproteins Reveals Distinct Responses of Monocytes and Macrophages to Bacterial Infection. Angewandte Chemie - International Edition, 2021, 60, 11494-11503.	13.8	9
7	Transcriptional firing represses bactericidal activity in cystic fibrosis airway neutrophils. Cell Reports Medicine, 2021, 2, 100239.	6.5	25
8	Timeâ€Resolved and Comprehensive Analysis of Surface Glycoproteins Reveals Distinct Responses of Monocytes and Macrophages to Bacterial Infection. Angewandte Chemie, 2021, 133, 11595-11604.	2.0	1
9	An Azo Coupling-Based Chemoproteomic Approach to Systematically Profile the Tyrosine Reactivity in the Human Proteome. Analytical Chemistry, 2021, 93, 10334-10342.	6.5	11
10	Chronic Ethanol Exposure Induces Deleterious Changes in Cardiomyocytes Derived from Human Induced Pluripotent Stem Cells. Stem Cell Reviews and Reports, 2021, 17, 2314-2331.	3.8	8
11	MS-based proteomics for comprehensive investigation of protein O-GlcNAcylation. Molecular Omics, 2021, 17, 186-196.	2.8	5
12	Recent Advances in Glycoproteomic Analysis by Mass Spectrometry. Analytical Chemistry, 2020, 92, 267-291.	6.5	96
13	WRNIP1 Is Recruited to DNA Interstrand Crosslinks and Promotes Repair. Cell Reports, 2020, 32, 107850.	6.4	15
14	Cutting in-line with iron: ribosomal function and non-oxidative RNA cleavage. Nucleic Acids Research, 2020, 48, 8663-8674.	14.5	18
15	Proteomic Profiling Reveals Roles of Stress Response, Ca²⁺ Transient Dysregulation, and Novel Signaling Pathways in Alcoholâ€Induced Cardiotoxicity. Alcoholism: Clinical and Experimental Research, 2020, 44, 2187-2199.	2.4	6
16	Melphalan induces cardiotoxicity through oxidative stress in cardiomyocytes derived from human induced pluripotent stem cells. Stem Cell Research and Therapy, 2020, 11, 470.	5.5	14
17	Effective Method for Accurate and Sensitive Quantitation of Rapid Changes of Newly Synthesized Proteins. Analytical Chemistry, 2020, 92, 10048-10057.	6.5	16
18	A Chemoenzymatic Method Based on Easily Accessible Enzymes for Profiling Protein O-GlcNAcylation. Analytical Chemistry, 2020, 92, 9807-9814.	6.5	25

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19	Systematic quantification of the dynamics of newly synthesized proteins unveiling their degradation pathways in human cells. Chemical Science, 2020, 11, 3557-3568.	7.4	18
20	Systematic and site-specific analysis of N-glycoproteins on the cell surface by integrating bioorthogonal chemistry and MS-based proteomics. Methods in Enzymology, 2019, 626, 223-247.	1.0	6
21	Phosphorylation of FANCD2 Inhibits the FANCD2/FANCI Complex and Suppresses the Fanconi Anemia Pathway in the Absence of DNA Damage. Cell Reports, 2019, 27, 2990-3005.e5.	6.4	29
22	Comprehensive Analysis of Protein Glycation Reveals Its Potential Impacts on Protein Degradation and Gene Expression in Human Cells. Journal of the American Society for Mass Spectrometry, 2019, 30, 2480-2490.	2.8	17
23	Surface Glycoproteomic Analysis Reveals That Both Unique and Differential Expression of Surface Glycoproteins Determine the Cell Type. Analytical Chemistry, 2019, 91, 6934-6942.	6.5	18
24	G-Quadruplexes in Human Ribosomal RNA. Journal of Molecular Biology, 2019, 431, 1940-1955.	4.2	48
25	Enzymatic Tagging of Glycoproteins on the Cell Surface for Their Global and Site-Specific Analysis with Mass Spectrometry. Analytical Chemistry, 2019, 91, 4195-4203.	6.5	26
26	Global and siteâ€specific analysis of protein glycosylation in complex biological systems with Mass Spectrometry. Mass Spectrometry Reviews, 2019, 38, 356-379.	5.4	75
27	Proteomic profiling of yeast heterochromatin connects direct physical and genetic interactions. Current Genetics, 2019, 65, 495-505.	1.7	3
28	Systematic Analysis of Fatty Acids in Human Cells with a Multiplexed Isobaric Tag (TMT)-Based Method. Journal of Proteome Research, 2018, 17, 1606-1614.	3.7	21
29	An enrichment method based on synergistic and reversible covalent interactions for large-scale analysis of glycoproteins. Nature Communications, 2018, 9, 1692.	12.8	127
30	Extracellular vesicles from bone marrowâ€derived mesenchymal stromal cells support ex vivo survival of human antibody secreting cells. Journal of Extracellular Vesicles, 2018, 7, 1463778.	12.2	27
31	Mass spectrometric analysis of the N-glycoproteome in statin-treated liver cells with two lectin-independent chemical enrichment methods. International Journal of Mass Spectrometry, 2018, 429, 66-75.	1.5	12
32	Factors of the bone marrow microniche that support human plasma cell survival and immunoglobulin secretion. Nature Communications, 2018, 9, 3698.	12.8	95
33	Mass Spectrometry-Based Chemical and Enzymatic Methods for Global Analysis of Protein Glycosylation. Accounts of Chemical Research, 2018, 51, 1796-1806.	15.6	77
34	Stabilization of Aliphatic Phosphines by Auxiliary Phosphine Sulfides Offers Zeptomolar Affinity and Unprecedented Selectivity for Probing Biological Cu I. Angewandte Chemie - International Edition, 2018, 57, 9711-9715.	13.8	16
35	Competitive Protein Binding Influences Heparin-Based Modulation of Spatial Growth Factor Delivery for Bone Regeneration. Tissue Engineering - Part A, 2017, 23, 683-695.	3.1	33
36	Global and Site-Specific Analysis Revealing Unexpected and Extensive Protein S-GlcNAcylation in Human Cells. Analytical Chemistry, 2017, 89, 3656-3663.	6.5	21

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37	Specific Identification of Glycoproteins Bearing the Tn Antigen in Human Cells. Angewandte Chemie - International Edition, 2017, 56, 7107-7111.	13.8	48
38	Specific Identification of Glycoproteins Bearing the Tn Antigen in Human Cells. Angewandte Chemie, 2017, 129, 7213-7217.	2.0	2
39	Efficacy, long-term toxicity, and mechanistic studies of gold nanorods photothermal therapy of cancer in xenograft mice. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3110-E3118.	7.1	237
40	Global Analysis of Secreted Proteins and Glycoproteins in Saccharomyces cerevisiae. Journal of Proteome Research, 2017, 16, 1039-1049.	3.7	30
41	Evaluation and optimization of reduction and alkylation methods to maximize peptide identification with MS-based proteomics. Molecular BioSystems, 2017, 13, 2574-2582.	2.9	68
42	Simultaneous Quantitation of Glycoprotein Degradation and Synthesis Rates by Integrating Isotope Labeling, Chemical Enrichment, and Multiplexed Proteomics. Analytical Chemistry, 2017, 89, 10361-10367.	6.5	13
43	Evidence for the importance of post-transcriptional regulatory changes in ovarian cancer progression and the contribution of miRNAs. Scientific Reports, 2017, 7, 8171.	3.3	14
44	Targeting cancer cell integrins using gold nanorods in photothermal therapy inhibits migration through affecting cytoskeletal proteins. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5655-E5663.	7.1	151
45	Quantitative investigation of human cell surface N-glycoprotein dynamics. Chemical Science, 2017, 8, 268-277.	7.4	55
46	Yeast rRNA Expansion Segments: Folding and Function. Journal of Molecular Biology, 2016, 428, 4048-4059.	4.2	18
47	Simultaneous Time-Dependent Surface-Enhanced Raman Spectroscopy, Metabolomics, and Proteomics Reveal Cancer Cell Death Mechanisms Associated with Gold Nanorod Photothermal Therapy. Journal of the American Chemical Society, 2016, 138, 15434-15442.	13.7	128
48	Quantification of tunicamycin-induced protein expression and N-glycosylation changes in yeast. Analyst, The, 2016, 141, 3737-3745.	3.5	30
49	Site-Specific Quantification of Surface N-Glycoproteins in Statin-Treated Liver Cells. Analytical Chemistry, 2016, 88, 3324-3332.	6.5	44
50	Systematic study of the dynamics and half-lives of newly synthesized proteins in human cells. Chemical Science, 2016, 7, 1393-1400.	7.4	64
51	A Boronic Acid-Based Enrichment for Site-Specific Identification of the N-glycoproteome Using MS-Based Proteomics. Neuromethods, 2015, , 31-41.	0.3	3
52	Systematic Investigation of Cellular Response and Pleiotropic Effects in Atorvastatin-Treated Liver Cells by MS-Based Proteomics. Journal of Proteome Research, 2015, 14, 1600-1611.	3.7	9
53	Enhancing the mass spectrometric identification of membrane proteins by combining chemical and enzymatic digestion methods. Analytical Methods, 2015, 7, 7220-7227.	2.7	2
54	Systematic and site-specific analysis of N-sialoglycosylated proteins on the cell surface by integrating click chemistry and MS-based proteomics. Chemical Science, 2015, 6, 4681-4689.	7.4	55

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55	Mass Spectrometric Analysis of the Cell Surface N-Glycoproteome by Combining Metabolic Labeling and Click Chemistry. Journal of the American Society for Mass Spectrometry, 2015, 26, 604-614.	2.8	43
56	Gas-Phase Solvation of Protonated Amino Acids by Methanol. Journal of Physical Chemistry A, 2014, 118, 11629-11640.	2.5	1
57	Off-line hyphenation of boronate affinity monolith-based extraction with matrix-assisted laser desorption/ionization time-of-flight mass spectrometry for efficient analysis of glycoproteins/glycopeptides. Analytica Chimica Acta, 2014, 834, 1-8.	5.4	70
58	Comprehensive Analysis of Protein N-Glycosylation Sites by Combining Chemical Deglycosylation with LCâ€“MS. Journal of Proteome Research, 2014, 13, 1466-1473.	3.7	44
59	A Universal Chemical Enrichment Method for Mapping the Yeast N-glycoproteome by Mass Spectrometry (MS). Molecular and Cellular Proteomics, 2014, 13, 1563-1572.	3.8	77
60	Heterochromatic Gene Silencing by Activator Interference and a Transcription Elongation Barrier*. Journal of Biological Chemistry, 2013, 288, 28771-28782.	3.4	26
61	Reply to "Phosphorylation sites of higher stoichiometry are more conserved". Nature Methods, 2012, 9, 318-318.	19.0	2
62	A large-scale method to measure absolute protein phosphorylation stoichiometries. Nature Methods, 2011, 8, 677-683.	19.0	264
63	Correct Interpretation of Comprehensive Phosphorylation Dynamics Requires Normalization by Protein Expression Changes. Molecular and Cellular Proteomics, 2011, 10, M111.009654.	3.8	167
64	The sodium cation-bound dimer of theophylline: IRMPD spectroscopy of a highly symmetric electrostatically bound species. International Journal of Mass Spectrometry, 2010, 297, 76-84.	1.5	19
65	Infrared vibrational spectra as a structural probe of gaseous ions formed by caffeine and theophylline. Physical Chemistry Chemical Physics, 2010, 12, 3431.	2.8	22
66	Structures, energetics, and dynamics of gas phase ions studied by FTICR and HPMS. Mass Spectrometry Reviews, 2009, 28, 546-585.	5.4	39
67	Protonation Sites and Conformations of Peptides of Glycine (Gly_{1â^'5}H⁺) by IRMPD Spectroscopy. Journal of Physical Chemistry B, 2009, 113, 8767-8775.	2.6	64
68	IRMPD spectra of GlyÂ·NH₄⁺ and protonâ€bound betaine dimer: evidence for the smallest gas phase zwitterionic structures. Journal of Mass Spectrometry, 2008, 43, 1641-1648.	1.6	21
69	Infrared Multipleâ€Photon Dissociation Mechanisms of Peptides of Glycine. Chemistry - A European Journal, 2008, 14, 7765-7770.	3.3	13
70	An Investigation of Protonation Sites and Conformations of Protonated Amino Acids by IRMPD Spectroscopy. ChemPhysChem, 2008, 9, 2826-2835.	2.1	74
71	Investigation of Cation-Ï€ Interactions in Biological Systems. Journal of the American Chemical Society, 2008, 130, 12554-12555.	13.7	67
72	Stabilization of Zwitterionic Structures of Amino Acids (Gly, Ala, Val, Leu, Ile, Ser and Pro) by Ammonium Ions in the Gas Phase. Journal of the American Chemical Society, 2008, 130, 3065-3078.	13.7	55

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73	Investigation of Proton Transport Tautomerism in Clusters of Protonated Nucleic Acid Bases (Cytosine, Uracil, Thymine, and Adenine) and Ammonia by High-Pressure Mass Spectrometry and Ab Initio Calculations. Journal of the American Chemical Society, 2007, 129, 569-580.	13.7	43
74	Infrared Multiple Photon Dissociation Spectra of Proline and Glycine Proton-Bound Homodimers. Evidence for Zwitterionic Structure. Journal of the American Chemical Society, 2007, 129, 4864-4865.	13.7	87
75	Infrared Multiple Photon Dissociation Spectroscopy as Structural Confirmation for GlyGlyGlyH+and AlaAlaAlaH+in the Gas Phase. Evidence for Amide Oxygen as the Protonation Site. Journal of the American Chemical Society, 2007, 129, 11312-11313.	13.7	94
76	Stabilization of the Zwitterionic Structure of Proline by an Alkylammonium Ion in the Gas Phase. Angewandte Chemie - International Edition, 2007, 46, 3668-3671.	13.8	45
77	An investigation of the ionÂ–molecule interactions of protonated glycine with ammonia by high pressure mass spectrometry and ab initio calculations. Canadian Journal of Chemistry, 2005, 83, 1978-1993.	1.1	22
78	Study on the structure and intra- and intermolecular hydrogen bonding of 2-methoxyphenolÂ·(H2O)n (n=1,2). Chemical Physics Letters, 2004, 390, 272-278.	2.6	23
79	Structure and Hydrogen Bonding of Different Isomers of 2-AminopyridineÂ·NH3Studied by IR/R2PI Spectroscopy. Journal of Physical Chemistry A, 2004, 108, 3338-3343.	2.5	21
80	Infrared Depletion Spectroscopy and Structure of the 2-Aminopyridine Dimerâ€. Journal of Physical Chemistry A, 2004, 108, 9715-9720.	2.5	31
81	Structure and hydrogen bonding of 2-aminopyridineÂ·(H2O)n(nâ€‰=â€‰1, 2) studied by infrared ion depletion spectroscopy. Physical Chemistry Chemical Physics, 2004, 6, 515-521.	2.8	28
82	A study of intramolecular energy relaxation processes of rare earth complexes [Ln(TTA) 3 Â·2H 2 O, Ln=Nd, Eu, Gd]. Journal of Molecular Structure, 2001, 559, 195-199.	3.6	11
83	Photoacoustic and fluorescence studies of silica gels doped with rare earth salicylic acid complexes. Journal of Non-Crystalline Solids, 2000, 278, 223-227.	3.1	19