

# Ronghu Wu

## List of Publications by Year in descending order

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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	A large-scale method to measure absolute protein phosphorylation stoichiometries. <i>Nature Methods</i> , 2011, 8, 677-683.	19.0	264
2	Efficacy, long-term toxicity, and mechanistic studies of gold nanorods photothermal therapy of cancer in xenograft mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3110-E3118.	7.1	237
3	Correct Interpretation of Comprehensive Phosphorylation Dynamics Requires Normalization by Protein Expression Changes. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M111.009654.	3.8	167
4	Targeting cancer cell integrins using gold nanorods in photothermal therapy inhibits migration through affecting cytoskeletal proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E5655-E5663.	7.1	151
5	Simultaneous Time-Dependent Surface-Enhanced Raman Spectroscopy, Metabolomics, and Proteomics Reveal Cancer Cell Death Mechanisms Associated with Gold Nanorod Photothermal Therapy. <i>Journal of the American Chemical Society</i> , 2016, 138, 15434-15442.	13.7	128
6	An enrichment method based on synergistic and reversible covalent interactions for large-scale analysis of glycoproteins. <i>Nature Communications</i> , 2018, 9, 1692.	12.8	127
7	Recent Advances in Glycoproteomic Analysis by Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 267-291.	6.5	96
8	Factors of the bone marrow microniche that support human plasma cell survival and immunoglobulin secretion. <i>Nature Communications</i> , 2018, 9, 3698.	12.8	95
9	Infrared Multiple Photon Dissociation Spectroscopy as Structural Confirmation for GlyGlyGlyH <sup>+</sup> and AlaAlaAlaH <sup>+</sup> in the Gas Phase. Evidence for Amide Oxygen as the Protonation Site. <i>Journal of the American Chemical Society</i> , 2007, 129, 11312-11313.	13.7	94
10	Infrared Multiple Photon Dissociation Spectra of Proline and Glycine Proton-Bound Homodimers. Evidence for Zwitterionic Structure. <i>Journal of the American Chemical Society</i> , 2007, 129, 4864-4865.	13.7	87
11	A Universal Chemical Enrichment Method for Mapping the Yeast N-glycoproteome by Mass Spectrometry (MS). <i>Molecular and Cellular Proteomics</i> , 2014, 13, 1563-1572.	3.8	77
12	Mass Spectrometry-Based Chemical and Enzymatic Methods for Global Analysis of Protein Glycosylation. <i>Accounts of Chemical Research</i> , 2018, 51, 1796-1806.	15.6	77
13	Global and site-specific analysis of protein glycosylation in complex biological systems with Mass Spectrometry. <i>Mass Spectrometry Reviews</i> , 2019, 38, 356-379.	5.4	75
14	An Investigation of Protonation Sites and Conformations of Protonated Amino Acids by IRMPD Spectroscopy. <i>ChemPhysChem</i> , 2008, 9, 2826-2835.	2.1	74
15	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. <i>Analytica Chimica Acta</i> , 2014, 834, 1-8.	5.4	70
16	Evaluation and optimization of reduction and alkylation methods to maximize peptide identification with MS-based proteomics. <i>Molecular BioSystems</i> , 2017, 13, 2574-2582.	2.9	68
17	Investigation of Cation- $\pi$ Interactions in Biological Systems. <i>Journal of the American Chemical Society</i> , 2008, 130, 12554-12555.	13.7	67
18	Protonation Sites and Conformations of Peptides of Glycine (Gly <sub>1-5</sub> H <sup>+</sup> ) by IRMPD Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2009, 113, 8767-8775.	2.6	64

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19	Systematic study of the dynamics and half-lives of newly synthesized proteins in human cells. <i>Chemical Science</i> , 2016, 7, 1393-1400.	7.4	64
20	Stabilization of Zwitterionic Structures of Amino Acids (Gly, Ala, Val, Leu, Ile, Ser and Pro) by Ammonium Ions in the Gas Phase. <i>Journal of the American Chemical Society</i> , 2008, 130, 3065-3078.	13.7	55
21	Systematic and site-specific analysis of N-sialoglycosylated proteins on the cell surface by integrating click chemistry and MS-based proteomics. <i>Chemical Science</i> , 2015, 6, 4681-4689.	7.4	55
22	Quantitative investigation of human cell surface N-glycoprotein dynamics. <i>Chemical Science</i> , 2017, 8, 268-277.	7.4	55
23	Specific Identification of Glycoproteins Bearing the Tn Antigen in Human Cells. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7107-7111.	13.8	48
24	G-Quadruplexes in Human Ribosomal RNA. <i>Journal of Molecular Biology</i> , 2019, 431, 1940-1955.	4.2	48
25	Stabilization of the Zwitterionic Structure of Proline by an Alkylammonium Ion in the Gas Phase. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3668-3671.	13.8	45
26	Comprehensive Analysis of Protein N-Glycosylation Sites by Combining Chemical Deglycosylation with LC-MS. <i>Journal of Proteome Research</i> , 2014, 13, 1466-1473.	3.7	44
27	Site-Specific Quantification of Surface N-Glycoproteins in Statin-Treated Liver Cells. <i>Analytical Chemistry</i> , 2016, 88, 3324-3332.	6.5	44
28	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. <i>Journal of the American Chemical Society</i> , 2007, 129, 569-580.	13.7	43
29	Mass Spectrometric Analysis of the Cell Surface N-Glycoproteome by Combining Metabolic Labeling and Click Chemistry. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 604-614.	2.8	43
30	Structures, energetics, and dynamics of gas phase ions studied by FTICR and HPMS. <i>Mass Spectrometry Reviews</i> , 2009, 28, 546-585.	5.4	39
31	Competitive Protein Binding Influences Heparin-Based Modulation of Spatial Growth Factor Delivery for Bone Regeneration. <i>Tissue Engineering - Part A</i> , 2017, 23, 683-695.	3.1	33
32	Infrared Depletion Spectroscopy and Structure of the 2-Aminopyridine Dimer. <i>Journal of Physical Chemistry A</i> , 2004, 108, 9715-9720.	2.5	31
33	Quantification of tunicamycin-induced protein expression and N-glycosylation changes in yeast. <i>Analyst</i> , 2016, 141, 3737-3745.	3.5	30
34	Global Analysis of Secreted Proteins and Glycoproteins in <i>Saccharomyces cerevisiae</i> . <i>Journal of Proteome Research</i> , 2017, 16, 1039-1049.	3.7	30
35	Phosphorylation of FANCD2 Inhibits the FANCD2/FANCI Complex and Suppresses the Fanconi Anemia Pathway in the Absence of DNA Damage. <i>Cell Reports</i> , 2019, 27, 2990-3005.e5.	6.4	29
36	Structure and hydrogen bonding of 2-aminopyridine·(H <sub>2</sub> O) <sub>n</sub> (n = 1, 2) studied by infrared ion depletion spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 515-521.	2.8	28

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37	Extracellular vesicles from bone marrow-derived mesenchymal stromal cells support <i>ex vivo</i> survival of human antibody secreting cells. <i>Journal of Extracellular Vesicles</i> , 2018, 7, 1463778.	12.2	27
38	Heterochromatic Gene Silencing by Activator Interference and a Transcription Elongation Barrier*. <i>Journal of Biological Chemistry</i> , 2013, 288, 28771-28782.	3.4	26
39	Enzymatic Tagging of Glycoproteins on the Cell Surface for Their Global and Site-Specific Analysis with Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 4195-4203.	6.5	26
40	A Chemoenzymatic Method Based on Easily Accessible Enzymes for Profiling Protein O-GlcNAcylation. <i>Analytical Chemistry</i> , 2020, 92, 9807-9814.	6.5	25
41	Transcriptional firing represses bactericidal activity in cystic fibrosis airway neutrophils. <i>Cell Reports Medicine</i> , 2021, 2, 100239.	6.5	25
42	Study on the structure and intra- and intermolecular hydrogen bonding of 2-methoxyphenol·(H <sub>2</sub> O) <sub>n</sub> (n=1,2). <i>Chemical Physics Letters</i> , 2004, 390, 272-278.	2.6	23
43	An investigation of the ion-molecule interactions of protonated glycine with ammonia by high pressure mass spectrometry and ab initio calculations. <i>Canadian Journal of Chemistry</i> , 2005, 83, 1978-1993.	1.1	22
44	Infrared vibrational spectra as a structural probe of gaseous ions formed by caffeine and theophylline. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3431.	2.8	22
45	Structure and Hydrogen Bonding of Different Isomers of 2-Aminopyridine·NH <sub>3</sub> Studied by IR/R <sub>2</sub> PI Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2004, 108, 3338-3343.	2.5	21
46	IRMPD spectra of Gly <sup>+</sup> ·NH <sub>4</sub> <sup>+</sup> and proton-bound betaine dimer: evidence for the smallest gas phase zwitterionic structures. <i>Journal of Mass Spectrometry</i> , 2008, 43, 1641-1648.	1.6	21
47	Global and Site-Specific Analysis Revealing Unexpected and Extensive Protein S-GlcNAcylation in Human Cells. <i>Analytical Chemistry</i> , 2017, 89, 3656-3663.	6.5	21
48	Systematic Analysis of Fatty Acids in Human Cells with a Multiplexed Isobaric Tag (TMT)-Based Method. <i>Journal of Proteome Research</i> , 2018, 17, 1606-1614.	3.7	21
49	Photoacoustic and fluorescence studies of silica gels doped with rare earth salicylic acid complexes. <i>Journal of Non-Crystalline Solids</i> , 2000, 278, 223-227.	3.1	19
50	The sodium cation-bound dimer of theophylline: IRMPD spectroscopy of a highly symmetric electrostatically bound species. <i>International Journal of Mass Spectrometry</i> , 2010, 297, 76-84.	1.5	19
51	Yeast rRNA Expansion Segments: Folding and Function. <i>Journal of Molecular Biology</i> , 2016, 428, 4048-4059.	4.2	18
52	Surface Glycoproteomic Analysis Reveals That Both Unique and Differential Expression of Surface Glycoproteins Determine the Cell Type. <i>Analytical Chemistry</i> , 2019, 91, 6934-6942.	6.5	18
53	Cutting in-line with iron: ribosomal function and non-oxidative RNA cleavage. <i>Nucleic Acids Research</i> , 2020, 48, 8663-8674.	14.5	18
54	Systematic quantification of the dynamics of newly synthesized proteins unveiling their degradation pathways in human cells. <i>Chemical Science</i> , 2020, 11, 3557-3568.	7.4	18

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55	Comprehensive Analysis of Protein Glycation Reveals Its Potential Impacts on Protein Degradation and Gene Expression in Human Cells. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 2480-2490.	2.8	17
56	Stabilization of Aliphatic Phosphines by Auxiliary Phosphine Sulfides Offers Zeptomolar Affinity and Unprecedented Selectivity for Probing Biological Cu I. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9711-9715.	13.8	16
57	Effective Method for Accurate and Sensitive Quantitation of Rapid Changes of Newly Synthesized Proteins. <i>Analytical Chemistry</i> , 2020, 92, 10048-10057.	6.5	16
58	WRNIP1 Is Recruited to DNA Interstrand Crosslinks and Promotes Repair. <i>Cell Reports</i> , 2020, 32, 107850.	6.4	15
59	Enhancing Comprehensive Analysis of Secreted Glycoproteins from Cultured Cells without Serum Starvation. <i>Analytical Chemistry</i> , 2021, 93, 2694-2705.	6.5	15
60	Evidence for the importance of post-transcriptional regulatory changes in ovarian cancer progression and the contribution of miRNAs. <i>Scientific Reports</i> , 2017, 7, 8171.	3.3	14
61	Melphalan induces cardiotoxicity through oxidative stress in cardiomyocytes derived from human induced pluripotent stem cells. <i>Stem Cell Research and Therapy</i> , 2020, 11, 470.	5.5	14
62	Infrared Multiple-Photon Dissociation Mechanisms of Peptides of Glycine. <i>Chemistry - A European Journal</i> , 2008, 14, 7765-7770.	3.3	13
63	Simultaneous Quantitation of Glycoprotein Degradation and Synthesis Rates by Integrating Isotope Labeling, Chemical Enrichment, and Multiplexed Proteomics. <i>Analytical Chemistry</i> , 2017, 89, 10361-10367.	6.5	13
64	Mass spectrometric analysis of the N-glycoproteome in statin-treated liver cells with two lectin-independent chemical enrichment methods. <i>International Journal of Mass Spectrometry</i> , 2018, 429, 66-75.	1.5	12
65	Spatial and temporal proteomics reveals the distinct distributions and dynamics of O-GlcNAcylated proteins. <i>Cell Reports</i> , 2022, 39, 110946.	6.4	12
66	A study of intramolecular energy relaxation processes of rare earth complexes [Ln(TTA) <sub>3</sub> ·2H <sub>2</sub> O, Ln=Nd, Eu, Gd]. <i>Journal of Molecular Structure</i> , 2001, 559, 195-199.	3.6	11
67	An Azo Coupling-Based Chemoproteomic Approach to Systematically Profile the Tyrosine Reactivity in the Human Proteome. <i>Analytical Chemistry</i> , 2021, 93, 10334-10342.	6.5	11
68	Unraveling the surface glycoprotein interaction network by integrating chemical crosslinking with MS-based proteomics. <i>Chemical Science</i> , 2021, 12, 2146-2155.	7.4	10
69	Systematic characterization of extracellular glycoproteins using mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2023, 42, 519-545.	5.4	10
70	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
71	Systematic Investigation of Cellular Response and Pleiotropic Effects in Atorvastatin-Treated Liver Cells by MS-Based Proteomics. <i>Journal of Proteome Research</i> , 2015, 14, 1600-1611.	3.7	9
72	Time-Resolved and Comprehensive Analysis of Surface Glycoproteins Reveals Distinct Responses of Monocytes and Macrophages to Bacterial Infection. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11494-11503.	13.8	9

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73	Chronic Ethanol Exposure Induces Deleterious Changes in Cardiomyocytes Derived from Human Induced Pluripotent Stem Cells. <i>Stem Cell Reviews and Reports</i> , 2021, 17, 2314-2331.	3.8	8
74	Systematic and site-specific analysis of N-glycoproteins on the cell surface by integrating bioorthogonal chemistry and MS-based proteomics. <i>Methods in Enzymology</i> , 2019, 626, 223-247.	1.0	6
75	Proteomic Profiling Reveals Roles of Stress Response, Ca <sup>2+</sup> Transient Dysregulation, and Novel Signaling Pathways in Alcohol-Induced Cardiotoxicity. <i>Alcoholism: Clinical and Experimental Research</i> , 2020, 44, 2187-2199.	2.4	6
76	MS-based proteomics for comprehensive investigation of protein O-GlcNAcylation. <i>Molecular Omics</i> , 2021, 17, 186-196.	2.8	5
77	A Boronic Acid-Based Enrichment for Site-Specific Identification of the N-glycoproteome Using MS-Based Proteomics. <i>NeuroMethods</i> , 2015, , 31-41.	0.3	3
78	Proteomic profiling of yeast heterochromatin connects direct physical and genetic interactions. <i>Current Genetics</i> , 2019, 65, 495-505.	1.7	3
79	Reply to "Phosphorylation sites of higher stoichiometry are more conserved". <i>Nature Methods</i> , 2012, 9, 318-318.	19.0	2
80	Enhancing the mass spectrometric identification of membrane proteins by combining chemical and enzymatic digestion methods. <i>Analytical Methods</i> , 2015, 7, 7220-7227.	2.7	2
81	Specific Identification of Glycoproteins Bearing the Tn Antigen in Human Cells. <i>Angewandte Chemie</i> , 2017, 129, 7213-7217.	2.0	2
82	Gas-Phase Solvation of Protonated Amino Acids by Methanol. <i>Journal of Physical Chemistry A</i> , 2014, 118, 11629-11640.	2.5	1
83	Time-Resolved and Comprehensive Analysis of Surface Glycoproteins Reveals Distinct Responses of Monocytes and Macrophages to Bacterial Infection. <i>Angewandte Chemie</i> , 2021, 133, 11595-11604.	2.0	1