

Yichu Shan

List of Publications by Year in Descending Order

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Version: 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59
papers

1,193
citations

22
h-index

32
g-index

66
ext. papers

1,365
ext. citations

5.2
avg, IF

4.08
L-index

#	Paper	IF	Citations
59	Multi-omics analysis to reveal disorders of cell metabolism and integrin signaling pathways induced by PM. <i>Journal of Hazardous Materials</i> , 2021 , 424, 127573	12.8	3
58	Antibody-free enrichment method for proteome-wide analysis of endogenous SUMOylation sites. <i>Analytica Chimica Acta</i> , 2021 , 1154, 338324	6.6	0
57	Carboxypeptidase B-Assisted Charge-Based Fractional Diagonal Chromatography for Deep Screening of C-Terminome. <i>Analytical Chemistry</i> , 2020 , 92, 8005-8009	7.8	4
56	Advances and applications of stable isotope labeling-based methods for proteome relative quantitation. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 124, 115815	14.6	3
55	Smart Cutter: An Efficient Strategy for Increasing the Coverage of Chemical Cross-Linking Analysis. <i>Analytical Chemistry</i> , 2020 , 92, 1097-1105	7.8	2
54	Comprehensive Analysis of Protein N-Terminome by Guanidination of Terminal Amines. <i>Analytical Chemistry</i> , 2020 , 92, 567-572	7.8	6
53	Combination of continuous digestion by peptidase and spectral similarity comparisons for peptide sequencing. <i>Journal of Separation Science</i> , 2020 , 43, 3665-3673	3.4	2
52	Sequential amidation of peptide C-termini for improving fragmentation efficiency. <i>Journal of Mass Spectrometry</i> , 2020 , 56, e4529	2.2	1
51	Surface modification with highly-homogeneous porous silica layer for enzyme immobilization in capillary enzyme microreactors. <i>Talanta</i> , 2019 , 197, 539-547	6.2	21
50	Site-Specific Quantification of Persulfidome by Combining an Isotope-Coded Affinity Tag with Strong Cation-Exchange-Based Fractionation. <i>Analytical Chemistry</i> , 2019 , 91, 14860-14864	7.8	6
49	A Multiplex Fragment-Ion-Based Method for Accurate Proteome Quantification. <i>Analytical Chemistry</i> , 2019 , 91, 3921-3928	7.8	7
48	In-Depth Proteome Coverage by Improving Efficiency for Membrane Proteome Analysis. <i>Analytical Chemistry</i> , 2017 , 89, 5179-5185	7.8	17
47	NIPTL-Novo: Non-isobaric peptide termini labeling assisted peptide de novo sequencing. <i>Journal of Proteomics</i> , 2017 , 154, 40-48	3.9	1
46	Hydrophobic Tagging-Assisted N-Termini Enrichment for In-Depth N-Terminome Analysis. <i>Analytical Chemistry</i> , 2016 , 88, 8390-5	7.8	32
45	Fast MS/MS acquisition without dynamic exclusion enables precise and accurate quantification of proteome by MS/MS fragment intensity. <i>Scientific Reports</i> , 2016 , 6, 26392	4.9	5
44	Pseudo isobaric peptide termini labelling for relative proteome quantification by SWATH MS acquisition. <i>Analyst</i> , 2016 , 141, 4912-8	5	9
43	In-Depth Proteomic Quantification of Cell Secretome in Serum-Containing Conditioned Medium. <i>Analytical Chemistry</i> , 2016 , 88, 4971-8	7.8	27

42	Depletion of internal peptides by site-selective blocking, phosphate labeling, and TiO ₂ adsorption for in-depth analysis of C-terminome. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 3867-74	4.4	7
41	Effective isolation of exosomes with polyethylene glycol from cell culture supernatant for in-depth proteome profiling. <i>Analyst, The</i> , 2016 , 141, 4640-6	5	111
40	Ionic liquid-based method for direct proteome characterization of velvet antler cartilage. <i>Talanta</i> , 2016 , 161, 541-546	6.2	11
39	Releasing N-glycan from peptide N-terminus by N-terminal succinylation assisted enzymatic deglycosylation. <i>Scientific Reports</i> , 2015 , 5, 9770	4.9	18
38	Glycoprotein recognition by water-compatible core-shell polymeric submicron particles. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 3927-3930	7.3	7
37	Partially isobaric peptide termini labeling assisted proteome quantitation based on MS and MS/MS signals. <i>Journal of Proteomics</i> , 2015 , 114, 152-60	3.9	8
36	A paired ions scoring algorithm based on Morpheus for simultaneous identification and quantification of proteome samples prepared by isobaric peptide termini labeling strategies. <i>Proteomics</i> , 2015 , 15, 1781-8	4.8	10
35	Improved Accuracy of Proteome Quantification by MS/MS Fragment Intensity. <i>FASEB Journal</i> , 2015 , 29, 567.9	0.9	
34	Improved accuracy for label-free absolute quantification of proteome by combining the Absolute Protein EXpression profiling algorithm and summed tandem mass spectrometric total ion current. <i>Analyst, The</i> , 2014 , 139, 138-46	5	3
33	Monodisperse boronate polymeric particles synthesized by a precipitation polymerization strategy: particle formation and glycoprotein response from the standpoint of the Flory-Huggins model. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2059-66	9.5	22
32	Recent advances in stable isotope labeling based techniques for proteome relative quantification. <i>Journal of Chromatography A</i> , 2014 , 1365, 1-11	4.5	31
31	Label-free quantification of differentially expressed proteins in mouse liver cancer cells with high and low metastasis rates by a SWATH acquisition method. <i>Science China Chemistry</i> , 2014 , 57, 718-722	7.9	1
30	Mn (III) tetrakis (4-benzoic acid) porphyrin scavenges reactive species, reduces oxidative stress, and improves functional recovery after experimental spinal cord injury in rats: comparison with methylprednisolone. <i>BMC Neuroscience</i> , 2013 , 14, 23	3.2	28
29	Mass defect-based pseudo-isobaric dimethyl labeling for proteome quantification. <i>Analytical Chemistry</i> , 2013 , 85, 10658-63	7.8	38
28	Micronutrient requirements for growth and hydrocarbon production in the oil producing green alga <i>Botryococcus braunii</i> (Chlorophyta). <i>PLoS ONE</i> , 2012 , 7, e41459	3.7	23
27	Stability, disposition, and penetration of catalytic antioxidants Mn-porphyrin and Mn-salen and of methylprednisolone in spinal cord injury. <i>Central Nervous System Agents in Medicinal Chemistry</i> , 2012 , 12, 122-30	1.8	9
26	High sensitive protein detection by hollow fiber membrane interface based protein enrichment and in situ fluorescence derivatization. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011 , 879, 1439-43	3.2	5
25	Recent advances in micro-scale and nano-scale high-performance liquid-phase chromatography for proteome research. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 399, 229-41	4.4	33

24	Ionic liquid 1-butyl-3-methyl imidazolium tetrafluoroborate for shotgun membrane proteomics. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 399, 3387-97	4.4	28
23	Octyl-functionalized hybrid magnetic mesoporous microspheres for enrichment of low-concentration peptides prior to direct analysis by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 1257-65	2.2	16
22	Monoliths with immobilized zirconium ions for selective enrichment of phosphopeptides. <i>Journal of Separation Science</i> , 2011 , 34, 2113-21	3.4	15
21	Development of a highly efficient 2-D system with a serially coupled long column and its application in identification of rat brain integral membrane proteins with ionic liquids-assisted solubilization and digestion. <i>Journal of Proteome Research</i> , 2011 , 10, 732-8	5.6	17
20	Immobilized enzyme reactors in proteomics. <i>TrAC - Trends in Analytical Chemistry</i> , 2011 , 30, 691-702	14.6	74
19	Integrated device for online sample buffer exchange, protein enrichment, and digestion. <i>Analytical Chemistry</i> , 2010 , 82, 2574-9	7.8	34
18	Organic-inorganic hybrid silica monolith based immobilized titanium ion affinity chromatography column for analysis of mitochondrial phosphoproteome. <i>Journal of Proteome Research</i> , 2010 , 9, 4093-101	5.6	51
17	Coupling formic acid assisted solubilization and online immobilized pepsin digestion with strong cation exchange and microflow reversed-phase liquid chromatography with electrospray ionization tandem mass spectrometry for integral membrane proteome analysis. <i>Analytical Chemistry</i> , 2010 , 82, 9622-5	7.8	32
16	Preparative separation of major xanthones from mangosteen pericarp using high-performance centrifugal partition chromatography. <i>Journal of Separation Science</i> , 2010 , 33, 1274-8	3.4	11
15	Protein separation using free-flow electrophoresis microchip etched in a single step. <i>Journal of Separation Science</i> , 2010 , 33, 2039-44	3.4	16
14	Integration of capillary isoelectric focusing with monolithic immobilized pH gradient, immobilized trypsin microreactor and capillary zone electrophoresis for on-line protein analysis. <i>Journal of Separation Science</i> , 2010 , 33, 3194-200	3.4	33
13	Weak anion and cation exchange mixed-bed microcolumn for protein separation. <i>Journal of Separation Science</i> , 2010 , 33, 3299-303	3.4	4
12	Integration of normal phase liquid chromatography with supercritical fluid chromatography for analysis of fruiting bodies of <i>Ganoderma lucidum</i> . <i>Journal of Separation Science</i> , 2010 , 33, 3817-21	3.4	12
11	HPLC-MS/MS shotgun proteomic research of deer antlers with multiparallel protein extraction methods. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2010 , 878, 3370-4	3.2	14
10	Human metapneumovirus glycoprotein G inhibits innate immune responses. <i>PLoS Pathogens</i> , 2008 , 4, e1000077	7.6	86
9	Human metapneumovirus small hydrophobic protein inhibits NF-kappaB transcriptional activity. <i>Journal of Virology</i> , 2008 , 82, 8224-9	6.6	46
8	Multi-segment linear gradient optimization strategy based on resolution map in HPLC. <i>Science in China Series B: Chemistry</i> , 2006 , 49, 315-325		5
7	Breakthrough curves and elution profiles of single solutes in case of adsorption isotherms with two inflection points. <i>Journal of Chromatography A</i> , 2006 , 1107, 216-25	4.5	28

6	Optimization of gradient elution conditions in multicomponent preparative liquid chromatography. <i>Journal of Chromatography A</i> , 2005 , 1093, 47-58	4.5	28
5	Analysis of the isolation of a target component using multicomponent isocratic preparative elution chromatography. <i>Journal of Chromatography A</i> , 2004 , 1041, 53-62	4.5	24
4	Retention modeling and simultaneous optimization of pH value and gradient steepness in RP-HPLC using feed-forward neural networks. <i>Journal of Separation Science</i> , 2003 , 26, 1541-1546	3.4	4
3	Determination of peptides and amino acids from wool and beer with sensitive fluorescent reagent 2-(9-carbazole)-ethyl chloroformate by reverse phase high-performance liquid chromatography and liquid chromatography mass spectrometry. <i>Analytical Biochemistry</i> , 2003 , 313, 17-27	3.1	58
2	Application of probabilistic neural network in the clinical diagnosis of cancers based on clinical chemistry data. <i>Analytica Chimica Acta</i> , 2002 , 471, 77-86	6.6	37
1	RETENTION MODELING AND OPTIMIZATION OF pH VALUE AND SOLVENT COMPOSITION IN HPLC USING BACK-PROPAGATION NEURAL NETWORKS AND UNIFORM DESIGN. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2002 , 25, 1033-1047	1.3	5