

Xianchun Wang

List of Publications by Year in descending order

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49
papers

1,078
citations

471509

17
h-index

434195

31
g-index

50
all docs

50
docs citations

50
times ranked

1378
citing authors

#	ARTICLE	IF	CITATIONS
1	FERONIA interacts with ABI2-type phosphatases to facilitate signaling cross-talk between abscisic acid and RALF peptide in <i>Arabidopsis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5519-27.	7.1	185
2	Evaluation of the Application of Sodium Deoxycholate to Proteomic Analysis of Rat Hippocampal Plasma Membrane. Journal of Proteome Research, 2006, 5, 2547-2553.	3.7	108
3	Sodium-deoxycholate-assisted tryptic digestion and identification of proteolytically resistant proteins. Analytical Biochemistry, 2008, 377, 259-266.	2.4	104
4	Proteomic analysis of rat hippocampal plasma membrane: characterization of potential neuronal-specific plasma membrane proteins. Journal of Neurochemistry, 2006, 98, 1126-1140.	3.9	60
5	Recent Advances in Research on Widow Spider Venoms and Toxins. Toxins, 2015, 7, 5055-5067.	3.4	52
6	Evaluation and optimization of removal of an acid-insoluble surfactant for shotgun analysis of membrane proteome. Electrophoresis, 2010, 31, 2705-2713.	2.4	47
7	Sodium Laurate, a Novel Protease- and Mass Spectrometry-Compatible Detergent for Mass Spectrometry-Based Membrane Proteomics. PLoS ONE, 2013, 8, e59779.	2.5	44
8	High-Throughput Analysis of Rat Liver Plasma Membrane Proteome by a Nonelectrophoretic In-Gel Tryptic Digestion Coupled with Mass Spectrometry Identification. Journal of Proteome Research, 2008, 7, 535-545.	3.7	42
9	Proteomic analysis of <i>Latrodectus tredecimguttatus</i> venom for uncovering potential latrodectism-related proteins. Journal of Biochemical and Molecular Toxicology, 2008, 22, 328-336.	3.0	41
10	Isolation and Preliminary Characterization of Proteinaceous Toxins with Insecticidal and Antibacterial Activities from Black Widow Spider (<i>L. tredecimguttatus</i>) Eggs. Toxins, 2015, 7, 886-899.	3.4	25
11	Electrophoretically driven SDS removal and protein fractionation in the shotgun analysis of membrane proteomes. Electrophoresis, 2012, 33, 316-324.	2.4	20
12	Gel absorption-based sample preparation for the analysis of membrane proteome by mass spectrometry. Analytical Biochemistry, 2010, 404, 204-210.	2.4	19
13	Protein Compositional Analysis of the Eggs of Black Widow Spider (<i>Latrodectus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 Molecular Toxicology, 2012, 26, 510-515.	3.0	19
14	Improvement of gel-separated protein identification by DMF-assisted digestion and peptide recovery after electroblotting. Electrophoresis, 2009, 30, 3626-3635.	2.4	18
15	An <i>In Vivo</i> Membrane Density Perturbation Strategy for Identification of Liver Sinusoidal Surface Proteome Accessible from the Vasculature. Journal of Proteome Research, 2009, 8, 123-132.	3.7	18
16	Development and evaluation of an entirely solution-based combinative sample preparation method for membrane proteomics. Analytical Biochemistry, 2013, 432, 41-48.	2.4	18
17	Development and Application of a Two-Phase, On-Membrane Digestion Method in the Analysis of Membrane Proteome. Journal of Proteome Research, 2008, 7, 1778-1783.	3.7	17
18	Shotgun proteomics and network analysis of ubiquitin-related proteins from human breast carcinoma epithelial cells. Molecular and Cellular Biochemistry, 2012, 359, 375-384.	3.1	17

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19	Purification and Partial Characterization of a Novel Neurotoxic Protein from Eggs of Black Widow Spiders (<i>Latrodectus tredecimguttatus</i>). <i>Journal of Biochemical and Molecular Toxicology</i> , 2013, 27, 337-342.	3.0	16
20	Isolation and identification of a sodium channel-inhibiting protein from eggs of black widow spiders. <i>International Journal of Biological Macromolecules</i> , 2014, 65, 115-120.	7.5	14
21	Development of cationic colloidal silica-coated magnetic nanospheres for highly selective and rapid enrichment of plasma membrane fractions for proteomics analysis. <i>Biotechnology and Applied Biochemistry</i> , 2009, 54, 213-220.	3.1	13
22	Shotgun analysis of membrane proteomes using a novel combinative strategy of solution-based sample preparation coupled with liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 901, 18-24.	2.3	13
23	Transcriptome Analysis to Understand the Toxicity of <i>Latrodectus tredecimguttatus</i> Eggs. <i>Toxins</i> , 2016, 8, 378.	3.4	13
24	Oxidative folding of reduced and denatured huwentoxin-I. <i>The Protein Journal</i> , 1999, 18, 619-625.	1.1	12
25	Physiological and biochemical characterization of egg extract of black widow spiders to uncover molecular basis of egg toxicity. <i>Biological Research</i> , 2014, 47, 17.	3.4	12
26	Analysis of integral membrane proteins by heat gel-embedding combined with improved in-gel digestions. <i>Electrophoresis</i> , 2009, 30, 4109-4117.	2.4	11
27	Physiological and Biochemical Analysis to Reveal the Molecular Basis for Black Widow Spiderling Toxicity. <i>Journal of Biochemical and Molecular Toxicology</i> , 2014, 28, 198-205.	3.0	11
28	Molecular basis and mechanism underlying the insecticidal activity of venoms and toxins from <i>Latrodectus</i> spiders. <i>Pest Management Science</i> , 2019, 75, 318-323.	3.4	11
29	Dried polyacrylamide gel absorption: A method for efficient elimination of the interferences from SDS-solubilized protein samples in mass spectrometry-based proteome analysis. <i>Electrophoresis</i> , 2010, 31, 3816-3822.	2.4	10
30	Sample preparation for the analysis of membrane proteomes by mass spectrometry. <i>Protein and Cell</i> , 2012, 3, 661-668.	11.0	10
31	Gene cloning, expression and polyclonal antibody preparation of Rab3A for protein interaction analysis. <i>SpringerPlus</i> , 2016, 5, 1705.	1.2	9
32	Rab3A is a new interacting partner of synaptotagmin I and may modulate synaptic membrane fusion through a competitive mechanism. <i>Biochemical and Biophysical Research Communications</i> , 2014, 444, 491-495.	2.1	8
33	Cytotoxic and apoptotic activities of black widow spiderling extract against HeLa cells. <i>Experimental and Therapeutic Medicine</i> , 2017, 13, 3267-3274.	1.8	8
34	Anti-Breast Cancer Activity of Latroeggtxin-V Mined from the Transcriptome of Spider <i>Latrodectus tredecimguttatus</i> Eggs. <i>Toxins</i> , 2018, 10, 451.	3.4	7
35	Rab3A Inhibition of Ca ²⁺ -Dependent Dopamine Release From PC12 Cells Involves Interaction With Synaptotagmin I. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 3696-3705.	2.6	6
36	Newly Discovered Action of HpTx3 from Venom of <i>Heteropoda venatoria</i> on Nav1.7 and Its Pharmacological Implications in Analgesia. <i>Toxins</i> , 2019, 11, 680.	3.4	6

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37	Effects of huwentoxin-I on catecholamines in cultured PC12 cells. <i>Toxicology Mechanisms and Methods</i> , 2015, 25, 241-248.	2.7	5
38	Synaptotagmin I delays the fast inactivation of Kv1.4 channel through interaction with its N-terminus. <i>Molecular Brain</i> , 2014, 7, 4.	2.6	4
39	Comparative proteomic analysis to probe into the differences in protein expression profiles and toxicity bases of <i>Latrodectus tredecimguttatus</i> spiderlings and adult spiders. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2020, 232, 108762.	2.6	4
40	Comparative Study on Bioactivities from Lingzhi or Reishi Medicinal Mushroom, <i>Ganoderma lucidum</i> (Agaricomycetes), Gives an Insight into the Fermentation Broth Showing Greater Antioxidative Activities. <i>International Journal of Medicinal Mushrooms</i> , 2020, 22, 627-639.	1.5	4
41	Detection and identification of huwentoxin-IV interacting proteins by biotin-avidin chemistry combined with mass spectrometry. <i>Journal of Venomous Animals and Toxins Including Tropical Diseases</i> , 2014, 20, 18.	1.4	3
42	Biochemical and cytotoxic evaluation of latroeggtotoxin-IV against PC12 cells. <i>Journal of Biochemical and Molecular Toxicology</i> , 2021, 35, e22825.	3.0	3
43	Localization of Rab3A-binding site on C2A domain of synaptotagmin I to reveal its regulatory mechanism. <i>International Journal of Biological Macromolecules</i> , 2017, 96, 736-742.	7.5	2
44	Comparative characterization of rat hippocampal plasma membrane and mitochondrial membrane proteomes based on a sequential digestion-centered combinative strategy. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 3119-3131.	3.7	2
45	Pull-Down Assay-Guided Insights into the Effects of Latroeggtotoxin-IV on Nerve Cells. <i>Toxins</i> , 2021, 13, 136.	3.4	2
46	Pull-down combined with proteomic strategy reveals functional diversity of synaptotagmin I. <i>PeerJ</i> , 2017, 5, e2973.	2.0	2
47	A sample preparation method for micro-scale membrane proteome analysis. <i>Sample Preparation</i> , 2013, 1, .	0.4	1
48	Gel-Absorption-Based Sample Preparation Method for Shotgun Analysis of Membrane Proteome. <i>Methods in Molecular Biology</i> , 2012, 869, 385-392.	0.9	0
49	Gel Absorption-Based Sample Preparation Method for Shotgun Analysis of Membrane Proteome. <i>Methods in Molecular Biology</i> , 2019, 1855, 483-490.	0.9	0