

Owen S Skinner

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,898
citations

331670

21
h-index

454955

30
g-index

33
all docs

33
docs citations

33
times ranked

2670
citing authors

#	ARTICLE	IF	CITATIONS
1	Top Down proteomics: Facts and perspectives. <i>Biochemical and Biophysical Research Communications</i> , 2014, 445, 683-693.	2.1	393
2	Distinct mitochondrial defects trigger the integrated stress response depending on the metabolic state of the cell. <i>ELife</i> , 2020, 9, .	6.0	133
3	Genetic Screen for Cell Fitness in High or Low Oxygen Highlights Mitochondrial and Lipid Metabolism. <i>Cell</i> , 2020, 181, 716-727.e11.	28.9	126
4	Top-down characterization of endogenous protein complexes with native proteomics. <i>Nature Chemical Biology</i> , 2018, 14, 36-41.	8.0	115
5	Hepatic NADH reductive stress underlies common variation in metabolic traits. <i>Nature</i> , 2020, 583, 122-126.	27.8	108
6	The biosynthesis of methanobactin. <i>Science</i> , 2018, 359, 1411-1416.	12.6	101
7	Circulating markers of NADH-reductive stress correlate with mitochondrial disease severity. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	95
8	How Ubiquitin Unfolds after Transfer into the Gas Phase. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 1011-1014.	2.8	93
9	Applying Label-Free Quantitation to Top Down Proteomics. <i>Analytical Chemistry</i> , 2014, 86, 4961-4968.	6.5	88
10	An engineered enzyme that targets circulating lactate to alleviate intracellular NADH:NAD ⁺ imbalance. <i>Nature Biotechnology</i> , 2020, 38, 309-313.	17.5	86
11	Low-dose rapamycin extends lifespan in a mouse model of mtDNA depletion syndrome. <i>Human Molecular Genetics</i> , 2017, 26, 4588-4605.	2.9	70
12	Mapping Proteoforms and Protein Complexes From King Cobra Venom Using Both Denaturing and Native Top-down Proteomics. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 2423-2434.	3.8	69
13	An informatic framework for decoding protein complexes by top-down mass spectrometry. <i>Nature Methods</i> , 2016, 13, 237-240.	19.0	59
14	Defining Gas-Phase Fragmentation Propensities of Intact Proteins During Native Top-Down Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 1203-1215.	2.8	49
15	Illuminating the dark matter of shotgun proteomics. <i>Nature Biotechnology</i> , 2015, 33, 717-718.	17.5	41
16	Analyzing Internal Fragmentation of Electrosprayed Ubiquitin Ions During Beam-Type Collisional Dissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 782-787.	2.8	39
17	Native GELFrEE: A New Separation Technique for Biomolecular Assemblies. <i>Analytical Chemistry</i> , 2015, 87, 3032-3038.	6.5	38
18	Loss of LUC7L2 and U1 snRNP subunits shifts energy metabolism from glycolysis to OXPHOS. <i>Molecular Cell</i> , 2021, 81, 1905-1919.e12.	9.7	33

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19	β^2 -Glucocerebrosidase Modulators Promote Dimerization of β^2 -Glucocerebrosidase and Reveal an Allosteric Binding Site. <i>Journal of the American Chemical Society</i> , 2018, 140, 5914-5924.	13.7	29
20	Characterizing the Structure and Oligomerization of Major Royal Jelly Protein 1 (MRJP1) by Mass Spectrometry and Complementary Biophysical Tools. <i>Biochemistry</i> , 2017, 56, 1645-1655.	2.5	27
21	Fragmentation of Integral Membrane Proteins in the Gas Phase. <i>Analytical Chemistry</i> , 2014, 86, 4627-4634.	6.5	25
22	Charge Site Mass Spectra: Conformation-Sensitive Components of the Electron Capture Dissociation Spectrum of a Protein. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 807-810.	2.8	21
23	Native Electron Capture Dissociation Maps to Iron-Binding Channels in Horse Spleen Ferritin. <i>Analytical Chemistry</i> , 2017, 89, 10711-10716.	6.5	14
24	Targeted analysis of recombinant NF kappa B (RelA/p65) by denaturing and native top down mass spectrometry. <i>Journal of Proteomics</i> , 2016, 134, 76-84.	2.4	10
25	CN-GELFrEE - Clear Native Gel-eluted Liquid Fraction Entrapment Electrophoresis. <i>Journal of Visualized Experiments</i> , 2016, , 53597.	0.3	9
26	Femtosecond laser vaporization that preserves protein-folded structure: An unproven idea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E206; author reply E207.	7.1	8
27	Probing asymmetric charge partitioning of protein oligomers during tandem mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2015, 390, 132-136.	1.5	7
28	The Search Engine for Multi-Proteoform Complexes: An Online Tool for the Identification and Stoichiometry Determination of Protein Complexes. <i>Current Protocols in Bioinformatics</i> , 2016, 56, 13.30.1-13.30.11.	25.8	7
29	Native Proteomics: A New Approach to Protein Complex Discovery and Characterization. <i>FASEB Journal</i> , 2017, 31, .	0.5	2
30	A natural fusion of flavodiiron, rubredoxin, and rubredoxin oxidoreductase domains is a self-sufficient water-forming oxidase of <i>Trichomonas vaginalis</i> . <i>Journal of Biological Chemistry</i> , 2022, 298, 102210.	3.4	1