

Jeffrey N Agar

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8447416/publications.pdf>

Version: 2024-02-01

42
papers

2,596
citations

257101

24
h-index

264894

42
g-index

46
all docs

46
docs citations

46
times ranked

3892
citing authors

#	ARTICLE	IF	CITATIONS
1	How many human proteoforms are there?. <i>Nature Chemical Biology</i> , 2018, 14, 206-214.	3.9	580
2	Best practices and benchmarks for intact protein analysis for top-down mass spectrometry. <i>Nature Methods</i> , 2019, 16, 587-594.	9.0	241
3	Protein Aggregation and Protein Instability Govern Familial Amyotrophic Lateral Sclerosis Patient Survival. <i>PLoS Biology</i> , 2008, 6, e170.	2.6	166
4	Focal dysfunction of the proteasome: a pathogenic factor in a mouse model of amyotrophic lateral sclerosis. <i>Journal of Neurochemistry</i> , 2004, 89, 1325-1335.	2.1	141
5	Molecular imaging of drug transit through the blood-brain barrier with MALDI mass spectrometry imaging. <i>Scientific Reports</i> , 2013, 3, 2859.	1.6	118
6	An international laboratory comparison of dissolved organic matter composition by high resolution mass spectrometry: Are we getting the same answer?. <i>Limnology and Oceanography: Methods</i> , 2020, 18, 235-258.	1.0	109
7	The Human Proteoform Project: Defining the human proteome. <i>Science Advances</i> , 2021, 7, eabk0734.	4.7	106
8	Recent advances in single-cell MALDI mass spectrometry imaging and potential clinical impact. <i>Expert Review of Proteomics</i> , 2011, 8, 591-604.	1.3	89
9	Sensitive and Specific Identification of Wild Type and Variant Proteins from 8 to 669 kDa Using Top-down Mass Spectrometry. <i>Molecular and Cellular Proteomics</i> , 2009, 8, 846-856.	2.5	83
10	Interlaboratory Study for Characterizing Monoclonal Antibodies by Top-Down and Middle-Down Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1783-1802.	1.2	67
11	Localized Metabolomic Gradients in Patient-Derived Xenograft Models of Glioblastoma. <i>Cancer Research</i> , 2020, 80, 1258-1267.	0.4	67
12	Strategies for stabilizing superoxide dismutase (SOD1), the protein destabilized in the most common form of familial amyotrophic lateral sclerosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 21394-21399.	3.3	65
13	Integrated mapping of pharmacokinetics and pharmacodynamics in a patient-derived xenograft model of glioblastoma. <i>Nature Communications</i> , 2018, 9, 4904.	5.8	62
14	A five-level classification system for proteoform identifications. <i>Nature Methods</i> , 2019, 16, 939-940.	9.0	55
15	Impaired proteasome function in sporadic amyotrophic lateral sclerosis. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , 2012, 13, 367-371.	2.3	54
16	Molecular Characterization of Prostate Cancer with Associated Gleason Score Using Mass Spectrometry Imaging. <i>Molecular Cancer Research</i> , 2019, 17, 1155-1165.	1.5	50
17	Matrix Solution Fixation: A Histology-Compatible Tissue Preparation for MALDI Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2007, 79, 7416-7423.	3.2	45
18	Rapid discrimination of pediatric brain tumors by mass spectrometry imaging. <i>Journal of Neuro-Oncology</i> , 2018, 140, 269-279.	1.4	45

#	ARTICLE	IF	CITATIONS
19	Automatic 3D Nonlinear Registration of Mass Spectrometry Imaging and Magnetic Resonance Imaging Data. <i>Analytical Chemistry</i> , 2019, 91, 6206-6216.	3.2	45
20	Peak learning of mass spectrometry imaging data using artificial neural networks. <i>Nature Communications</i> , 2021, 12, 5544.	5.8	43
21	Raf promotes dimerization of the Ras G-domain with increased allosteric connections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	39
22	Structural characterization of intact proteins is enhanced by prevalent fragmentation pathways rarely observed for peptides. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 949-959.	1.2	35
23	ProForma: A Standard Proteoform Notation. <i>Journal of Proteome Research</i> , 2018, 17, 1321-1325.	1.8	35
24	Post-Translational Modification by Cysteine Protects Cu/Zn-Superoxide Dismutase from Oxidative Damage. <i>Biochemistry</i> , 2013, 52, 6137-6144.	1.2	33
25	Cyclic Thiosulfonates and Cyclic Disulfides Selectively Cross-Link Thiols While Avoiding Modification of Lone Thiols. <i>Journal of the American Chemical Society</i> , 2018, 140, 7377-7380.	6.6	23
26	Artifacts to avoid while taking advantage of top-down mass spectrometry based detection of protein S-nitrosylation. <i>Proteomics</i> , 2014, 14, 1152-1157.	1.3	20
27	Parsing disease-relevant protein modifications from epiphenomena: perspective on the structural basis of SOD1-mediated ALS. <i>Journal of Mass Spectrometry</i> , 2017, 52, 480-491.	0.7	20
28	The central nervous system transcriptome of the weakly electric brown ghost knifefish (<i>Apteronotus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.2	19
29	Increasing Top-Down Mass Spectrometry Sequence Coverage by an Order of Magnitude through Optimized Internal Fragment Generation and Assignment. <i>Analytical Chemistry</i> , 2021, 93, 6355-6362.	3.2	19
30	In Vitro Liquid Extraction Surface Analysis Mass Spectrometry (ivLESA-MS) for Direct Metabolic Analysis of Adherent Cells in Culture. <i>Analytical Chemistry</i> , 2018, 90, 4987-4991.	3.2	18
31	massNet: integrated processing and classification of spatially resolved mass spectrometry data using deep learning for rapid tumor delineation. <i>Bioinformatics</i> , 2022, 38, 2015-2021.	1.8	13
32	A rapid MALDI-TOF mass spectrometry workflow for <i>Drosophila melanogaster</i> differential neuropeptidomics. <i>Molecular Brain</i> , 2013, 6, 60.	1.3	11
33	QUDeX-MS: hydrogen/deuterium exchange calculation for mass spectra with resolved isotopic fine structure. <i>BMC Bioinformatics</i> , 2014, 15, 403.	1.2	11
34	Heavy Sugar and Heavy Water Create Tunable Intact Protein Mass Increases for Quantitative Mass Spectrometry in Any Feed and Organism. <i>Analytical Chemistry</i> , 2016, 88, 11139-11146.	3.2	11
35	Loss of angiogenin function is related to earlier ALS onset and a paradoxical increase in ALS duration. <i>Scientific Reports</i> , 2020, 10, 3715.	1.6	11
36	Nucleophilic substitution reactions of cyclic thiosulfonates are accelerated by hyperconjugative interactions. <i>Chemical Science</i> , 2019, 10, 5568-5575.	3.7	10

#	ARTICLE	IF	CITATIONS
37	Cyclic Thiosulfinates as a Novel Class of Disulfide Cleavable Cross-Linkers for Rapid Hydrogel Synthesis. <i>Bioconjugate Chemistry</i> , 2021, 32, 584-594.	1.8	10
38	Integrated Bottom-Up and Top-Down Liquid Chromatography–Mass Spectrometry for Characterization of Recombinant Human Growth Hormone Degradation Products. <i>Analytical Chemistry</i> , 2017, 89, 12771-12777.	3.2	6
39	Multimodal platform for assessing drug distribution and response in clinical trials. <i>Neuro-Oncology</i> , 2022, 24, 64-77.	0.6	4
40	Genetically Encoded Fluorescent Proteins Enable High-Throughput Assignment of Cell Cohorts Directly from MALDI-MS Images. <i>Analytical Chemistry</i> , 2019, 91, 3810-3817.	3.2	3
41	Spatial Distribution of Transcytosis Relevant Phospholipids in Response to Omega-3 Dietary Deprivation. <i>ACS Chemical Biology</i> , 2021, 16, 106-115.	1.6	3
42	Secretion, isotopic labeling and deglycosylation of N-acyl ethanolamine acid amidase for biophysical studies. <i>Protein Expression and Purification</i> , 2018, 145, 108-117.	0.6	2