Jonathan C Trinidad

List of Publications by Year
in descending order

69 papers	5,674 citations	126708 33 h-index	95083 68 g-index
72 all docs	72 docs citations	72 times ranked	8304 citing authors

#	Article	IF	Citations
1	Widespread Protein Aggregation as an Inherent Part of Aging in C. elegans. PLoS Biology, 2010, 8, e1000450.	2.6	551
2	Global Sequencing of Proteolytic Cleavage Sites in Apoptosis by Specific Labeling of Protein N Termini. Cell, 2008, 134, 866-876.	13.5	429
3	Tau post-translational modifications in wild-type and human amyloid precursor protein transgenic mice. Nature Neuroscience, 2015, 18, 1183-1189.	7.1	377
4	Global Identification and Characterization of Both O-GlcNAcylation and Phosphorylation at the Murine Synapse. Molecular and Cellular Proteomics, 2012, 11, 215-229.	2.5	363
5	O-Linked N-Acetylglucosamine Proteomics of Postsynaptic Density Preparations Using Lectin Weak Affinity Chromatography and Mass Spectrometry. Molecular and Cellular Proteomics, 2006, 5, 923-934.	2.5	312
6	Comprehensive Identification of Phosphorylation Sites in Postsynaptic Density Preparations. Molecular and Cellular Proteomics, 2006, 5, 914-922.	2.5	229
7	Glucose Regulates Mitochondrial Motility via Milton Modification by O-GlcNAc Transferase. Cell, 2014, 158, 54-68.	13.5	223
8	A Transmembrane Accessory Subunit that Modulates Kainate-Type Glutamate Receptors. Neuron, 2009, 61, 385-396.	3.8	194
9	Quantitative Analysis of Synaptic Phosphorylation and Protein Expression. Molecular and Cellular Proteomics, 2008, 7, 684-696.	2.5	188
10	Evolution of Phosphoregulation: Comparison of Phosphorylation Patterns across Yeast Species. PLoS Biology, 2009, 7, e1000134.	2.6	170
11	Quantitative analysis of both protein expression and serine?/?threonine post-translational modifications through stable isotope labeling with dithiothreitol. Proteomics, 2005, 5, 388-398.	1.3	169
12	Global kinetic analysis of proteolysis via quantitative targeted proteomics. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1913-1918.	3.3	169
13	Human Proteinpedia enables sharing of human protein data. Nature Biotechnology, 2008, 26, 164-167.	9.4	155
14	N- and O-Glycosylation in the Murine Synaptosome. Molecular and Cellular Proteomics, 2013, 12, 3474-3488.	2.5	151
15	Neurotransmitter release regulated by a MALSâ€“liprin-Î± presynaptic complex. Journal of Cell Biology, 2005, 170, 1127-1134.	2.3	116
16	Differentiation of Opioid Drug Effects by Hierarchical Multi-Site Phosphorylation. Molecular Pharmacology, 2013, 83, 633-639.	1.0	113
17	Molecular constituents of neuronal AMPA receptors. Journal of Cell Biology, 2005, 169, 399-404.	2.3	105
18	Quantitative Encoding of the Effect of a Partial Agonist on Individual Opioid Receptors by Multisite Phosphorylation and Threshold Detection. Science Signaling, 2011, 4, ra52.	1.6	98

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19	The Agrin/MuSK Signaling Pathway Is Spatially Segregated from the Neuregulin/ErbB Receptor Signaling Pathway at the Neuromuscular Junction. Journal of Neuroscience, 2000, 20, 8762-8770.	1.7	93
20	Trk Activation of the ERK1/2 Kinase Pathway Stimulates Intermediate Chain Phosphorylation and Recruits Cytoplasmic Dynein to Signaling Endosomes for Retrograde Axonal Transport. Journal of Neuroscience, 2012, 32, 15495-15510.	1.7	79
21	Hydrogen Sulfide and Reactive Sulfur Species Impact Proteome S-Sulfhydration and Global Virulence Regulation in Staphylococcus aureus. ACS Infectious Diseases, 2017, 3, 744-755.	1.8	73
22	Quantitative profiling of caspase-cleaved substrates reveals different drug-induced and cell-type patterns in apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12432-12437.	3.3	69
23	Sulfide-responsive transcriptional repressor SqrR functions as a master regulator of sulfide-dependent photosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2355-2360.	3.3	68
24	Multi-metal Restriction by Calprotectin Impacts De Novo Flavin Biosynthesis in Acinetobacter baumannii. Cell Chemical Biology, 2019, 26, 745-755.e7.	2.5	61
25	An Acinetobacter baumannii, Zinc-Regulated Peptidase Maintains Cell Wall Integrity during Immune-Mediated Nutrient Sequestration. Cell Reports, 2019, 26, 2009-2018.e6.	2.9	61
26	Biological and Chemical Adaptation to Endogenous Hydrogen Peroxide Production in Streptococcus pneumoniae D39. MSphere, 2017, 2, .	1.3	58
27	Preparation of Mercury(II) Complexes of Tris[(2-pyridyl)methyl]amine and Characterization by X-ray Crystallography and NMR Spectroscopy. Inorganic Chemistry, 1997, 36, 4257-4264.	1.9	54
28	Reduced Insulin/IGF-1 Signaling Restores the Dynamic Properties of Key Stress Granule Proteins during Aging. Cell Reports, 2017, 18, 454-467.	2.9	54
29	Staphylococcus aureus sqr Encodes a Type II Sulfide:Quinone Oxidoreductase and Impacts Reactive Sulfur Speciation in Cells. Biochemistry, 2016, 55, 6524-6534.	1.2	48
30	AvrRpm1 Functions as an ADP-Ribosyl Transferase to Modify NOI-domain Containing Proteins, Including Arabidopsis and Soybean RPM1-interacting Protein 4. Plant Cell, 2019, 31, tpc.00020.2019.	3.1	45
31	Renal defects associated with improper polarization of the CRB and DLG polarity complexes in MALS-3 knockout mice. Journal of Cell Biology, 2007, 179, 151-164.	2.3	42
32	Glycopeptide Site Heterogeneity and Structural Diversity Determined by Combined Lectin Affinity Chromatography/IMS/CID/MS Techniques. Journal of the American Society for Mass Spectrometry, 2015, 26, 1092-1102.	1.2	42
33	Inhibition of lysosomal enzyme activities by proton pump inhibitors. Journal of Gastroenterology, 2013, 48, 1343-1352.	2.3	41
34	Hydrogen Sulfide Sensing through Reactive Sulfur Species (RSS) and Nitroxyl (HNO) in Enterococcus faecalis. ACS Chemical Biology, 2018, 13, 1610-1620.	1.6	37
35	Archaeal orthologs of Cdc45 and GINS form a stable complex that stimulates the helicase activity of MCM. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13390-13395.	3.3	36
36	Palmitoylation of Sindbis Virus TF Protein Regulates Its Plasma Membrane Localization and Subsequent Incorporation into Virions. Journal of Virology, 2017, 91, .	1.5	34

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37	Normal protein composition of synapses in Ts65Dn mice: a mouse model of Down syndrome. Journal of Neurochemistry, 2009, 110, 157-169.	2.1	33
38	The Response of Acinetobacter baumannii to Hydrogen Sulfide Reveals Two Independent Persulfide-Sensing Systems and a Connection to Biofilm Regulation. MBio, 2020, 11, .	1.8	33
39	Distinguishing Sulfotyrosine Containing Peptides from their Phosphotyrosine Counterparts Using Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2018, 29, 455-462.	1.2	32
40	Charge Detection Mass Spectrometry Measurements of Exosomes and other Extracellular Particles Enriched from Bovine Milk. Analytical Chemistry, 2020, 92, 3285-3292.	3.2	32
41	Neuregulin Inhibits Acetylcholine Receptor Aggregation in Myotubes. Journal of Biological Chemistry, 2004, 279, 31622-31628.	1.6	31
42	Nedd4 is a specific E3 ubiquitin ligase for the NMDA receptor subunit GluN2D. Neuropharmacology, 2013, 74, 96-107.	2.0	31
43	Identification and characterization of a heterotrimeric archaeal DNA polymerase holoenzyme. Nature Communications, 2017, 8, 15075.	5.8	31
44	Activity-dependent Protein Dynamics Define Interconnected Cores of Co-regulated Postsynaptic Proteins. Molecular and Cellular Proteomics, 2013, 12, 29-41.	2.5	22
45	Dissecting the Components of Sindbis Virus from Arthropod and Vertebrate Hosts: Implications for Infectivity Differences. ACS Infectious Diseases, 2019, 5, 892-902.	1.8	21
46	Thioredoxin Profiling of Multiple Thioredoxin-Like Proteins in Staphylococcus aureus. Frontiers in Microbiology, 2018, 9, 2385.	1.5	20
47	Densinâ€180: revised membrane topology, domain structure and phosphorylation status. Journal of Neurochemistry, 2009, 109, 297-302.	2.1	19
48	Characterization of lectin binding affinities via direct LC-MS profiling: implications for glycopeptide enrichment and separation strategies. Analyst, The, 2017, 142, 65-74.	1.7	19
49	Comparative Proteomics Reveal Me31Bâ€™s Interactome Dynamics, Expression Regulation, and Assembly Mechanism into Germ Granules during Drosophila Germline Development. Scientific Reports, 2020, 10, 564.	1.6	19
50	Multiple Flagellin Proteins Have Distinct and Synergistic Roles in Agrobacterium tumefaciens Motility. Journal of Bacteriology, 2018, 200, .	1.0	18
51	An inÂvivo proteomic analysis of the Me31B interactome in Drosophila germ granules. FEBS Letters, 2017, 591, 3536-3547.	1.3	17
52	Proteome changes in the aging Drosophila melanogaster head. International Journal of Mass Spectrometry, 2018, 425, 36-46.	0.7	17
53	Molecular bases of an alternative dual-enzyme system for light color acclimation of marineSynechococcuscyanobacteria. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	16
54	Assembly of a dsRNA synthesizing complex: RNA-DEPENDENT RNA POLYMERASE 2 contacts the largest subunit of NUCLEAR RNA POLYMERASE IV. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	16

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55	Impact of Low and High Tidal Volumes on the Rat Alveolar Epithelial Type II Cell Proteome. American Journal of Respiratory and Critical Care Medicine, 2007, 175, 1006-1013.	2.5	15
56	Impaired phosphatidylethanolamine metabolism activates a reversible stress response that detects and resolves mutant mitochondrial precursors. IScience, 2021, 24, 102196.	1.9	15
57	Effect of Ligands and Transducers on the Neurotensin Receptor 1 Conformational Ensemble. Journal of the American Chemical Society, 2022, 144, 10241-10250.	6.6	13
58	Glycoproteomic Analysis of Human Urinary Exosomes. Analytical Chemistry, 2020, 92, 14357-14365.	3.2	12
59	Deciphering the mechanism of processive ssDNA digestion by the Dna2-RPA ensemble. Nature Communications, 2022, 13, 359.	5.8	12
60	Identification of 14-3-3 proteins, Polo kinase, and RNA-binding protein Pes4 as key regulators of meiotic commitment in budding yeast. Current Biology, 2022, 32, 1534-1547.e9.	1.8	12
61	Melatoninâ€dependent changes in neurosteroids are associated with increased aggression in a seasonally breeding rodent. Journal of Neuroendocrinology, 2021, 33, e12940.	1.2	11
62	Disparate Regulatory Mechanisms Control Fat3 and P75NTR Protein Transport through a Conserved Kif5-Interaction Domain. PLoS ONE, 2016, 11, e0165519.	1.1	9
63	Thermal Analysis of a Mixture of Ribosomal Proteins by vT-ESI-MS: Toward a Parallel Approach for Characterizing the Stabilitome. Analytical Chemistry, 2021, 93, 8484-8492.	3.2	8
64	The BORDER family of negative transcription elongation factors regulates flowering time in Arabidopsis. Current Biology, 2021, 31, 5377-5384.e5.	1.8	8
65	A Highâ€Throughput Massâ€Spectrometryâ€Based Assay for Identifying the Biochemical Functions of Putative Glycosidases. ChemBioChem, 2017, 18, 2306-2311.	1.3	7
66	Introducing Students to Protein Analysis Techniques: Separation and Comparative Analysis of Gluten Proteins in Various Wheat Strains. Journal of Chemical Education, 2016, 93, 330-334.	1.1	6
67	A graphical representation of glycan heterogeneity. Glycobiology, 2022, 32, 201-207.	1.3	4
68	Analysis of Keratinocytic Exosomes from Diabetic and Nondiabetic Mice by Charge Detection Mass Spectrometry. Analytical Chemistry, 2022, 94, 8909-8918.	3.2	4
69	Large scale analysis of synaptic phosphorylation and Oâ€GlcNAcylation reveals complex interplay between these postâ€translational modifications. FASEB Journal, 2012, 26, 978.2.	0.2	0