

# Jens R Coorssen

## List of Publications by Year in descending order

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89  
papers

2,993  
citations

136885

32  
h-index

182361

51  
g-index

92  
all docs

92  
docs citations

92  
times ranked

2620  
citing authors

#	ARTICLE	IF	CITATIONS
1	De novo sequencing of peptides using MALDI/TOF-TOF. <i>Journal of the American Society for Mass Spectrometry</i> , 2002, 13, 784-791.	1.2	189
2	Cholesterol facilitates the native mechanism of Ca <sup>2+</sup> -triggered membrane fusion. <i>Journal of Cell Science</i> , 2005, 118, 4833-4848.	1.2	171
3	Specific Lipids Supply Critical Negative Spontaneous Curvature—An Essential Component of Native Ca <sup>2+</sup> -Triggered Membrane Fusion. <i>Biophysical Journal</i> , 2008, 94, 3976-3986.	0.2	153
4	Biochemical and Functional Studies of Cortical Vesicle Fusion: The SNARE Complex and Ca <sup>2+</sup> Sensitivity. <i>Journal of Cell Biology</i> , 1998, 143, 1845-1857.	2.3	146
5	2DE: The Phoenix of Proteomics. <i>Journal of Proteomics</i> , 2014, 104, 140-150.	1.2	123
6	Calcium Can Disrupt the SNARE Protein Complex on Sea Urchin Egg Secretory Vesicles without Irreversibly Blocking Fusion. <i>Journal of Biological Chemistry</i> , 1998, 273, 33667-33673.	1.6	85
7	Quantitative proteomics: assessing the spectrum of in-gel protein detection methods. <i>Journal of Chemical Biology</i> , 2011, 4, 3-29.	2.2	85
8	Assessing Detection Methods for Gel-Based Proteomic Analyses. <i>Journal of Proteome Research</i> , 2007, 6, 1418-1425.	1.8	83
9	Enhanced detergent extraction for analysis of membrane proteomes by two-dimensional gel electrophoresis. <i>Proteome Science</i> , 2005, 3, 5.	0.7	68
10	Postfractionation for Enhanced Proteomic Analyses: Routine Electrophoretic Methods Increase the Resolution of Standard 2D-PAGE. <i>Journal of Proteome Research</i> , 2005, 4, 982-991.	1.8	65
11	Cholesterol, regulated exocytosis and the physiological fusion machine. <i>Biochemical Journal</i> , 2009, 423, 1-14.	1.7	65
12	Sphingomyelin-enriched microdomains define the efficiency of native Ca <sup>2+</sup> -triggered membrane fusion. <i>Journal of Cell Science</i> , 2006, 119, 2688-2694.	1.2	64
13	Quantitative femto- to attomole immunodetection of regulated secretory vesicle proteins critical to exocytosis. <i>Analytical Biochemistry</i> , 2002, 307, 54-62.	1.1	57
14	GTP $\gamma$ S and phorbol ester act synergistically to stimulate both Ca <sup>2+</sup> -independent secretion and phospholipase D activity in permeabilized human platelets. <i>FEBS Letters</i> , 1993, 316, 170-174.	1.3	56
15	Pre-extraction Sample Handling by Automated Frozen Disruption Significantly Improves Subsequent Proteomic Analyses. <i>Journal of Proteome Research</i> , 2006, 5, 437-448.	1.8	56
16	Regulated secretion: SNARE density, vesicle fusion and calcium dependence. <i>Journal of Cell Science</i> , 2003, 116, 2087-2097.	1.2	55
17	Behavioural phenotypes in the cuprizone model of central nervous system demyelination. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 107, 23-46.	2.9	55
18	<i>Drosophila</i> development, physiology, behavior, and lifespan are influenced by altered dietary composition. <i>Fly</i> , 2017, 11, 153-170.	0.9	54

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19	Innovating the Concept and Practice of Two-Dimensional Gel Electrophoresis in the Analysis of Proteomes at the Proteoform Level. <i>Proteomes</i> , 2019, 7, 36.	1.7	53
20	An Initial Proteomic Analysis of Human Preterm Labor: Placental Membranes. <i>Journal of Proteome Research</i> , 2006, 5, 3161-3172.	1.8	52
21	An evaluation of in vitro protein-protein interaction techniques: Assessing contaminating background proteins. <i>Proteomics</i> , 2006, 6, 2050-2069.	1.3	52
22	Effects of cholesterol on the structural transitions induced by diacylglycerol in phosphatidylcholine and phosphatidylethanolamine bilayer systems. <i>Biochemistry and Cell Biology</i> , 1990, 68, 65-69.	0.9	49
23	The roles of microglia and astrocytes in phagocytosis and myelination: Insights from the cuprizone model of multiple sclerosis. <i>Glia</i> , 2022, 70, 1215-1250.	2.5	49
24	Copper (II) sulfate charring for high sensitivity on-plate fluorescent detection of lipids and sterols: quantitative analyses of the composition of functional secretory vesicles. <i>Journal of Chemical Biology</i> , 2008, 1, 79-87.	2.2	48
25	Proteomics Is Analytical Chemistry: Fitness-for-Purpose in the Application of Top-Down and Bottom-Up Analyses. <i>Proteomes</i> , 2015, 3, 440-453.	1.7	48
26	Calcium-triggered Membrane Fusion Proceeds Independently of Specific Presynaptic Proteins. <i>Journal of Biological Chemistry</i> , 2003, 278, 24251-24254.	1.6	47
27	Proteomes Are of Proteoforms: Embracing the Complexity. <i>Proteomes</i> , 2021, 9, 38.	1.7	46
28	Revisiting the role of SNAREs in exocytosis and membrane fusion. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2003, 1641, 121-135.	1.9	45
29	Coomassie blue staining for high sensitivity gel-based proteomics. <i>Journal of Proteomics</i> , 2013, 90, 96-106.	1.2	45
30	Top-down proteomics: Enhancing 2D gel electrophoresis from tissue processing to high-sensitivity protein detection. <i>Proteomics</i> , 2014, 14, 872-889.	1.3	45
31	Enabling Coupled Quantitative Genomics and Proteomics Analyses from Rat Spinal Cord Samples. <i>Molecular and Cellular Proteomics</i> , 2007, 6, 1574-1588.	2.5	40
32	Coomassie Blue as a Near-infrared Fluorescent Stain: A Systematic Comparison With Sypro Ruby for In-gel Protein Detection. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 3834-3850.	2.5	40
33	Proteomic analysis of first trimester maternal serum to identify candidate biomarkers potentially predictive of spontaneous preterm birth. <i>Journal of Proteomics</i> , 2018, 178, 31-42.	1.2	34
34	Revisiting the Pathoetiology of Multiple Sclerosis: Has the Tail Been Wagging the Mouse?. <i>Frontiers in Immunology</i> , 2020, 11, 572186.	2.2	33
35	Deep Imaging: How Much of the Proteome Does Current Top-Down Technology Already Resolve?. <i>PLoS ONE</i> , 2014, 9, e86058.	1.1	31
36	Behavioural and histological changes in cuprizone-fed mice. <i>Brain, Behavior, and Immunity</i> , 2020, 87, 508-523.	2.0	29

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37	Coomassie staining provides routine (sub)femtomole in-gel detection of intact proteoforms: Expanding opportunities for genuine Top-Down Proteomics. <i>Electrophoresis</i> , 2017, 38, 3086-3099.	1.3	28
38	Sea urchin egg preparations as systems for the study of calcium-triggered exocytosis. <i>Journal of Physiology</i> , 1999, 520, 15-21.	1.3	26
39	Identifying Critical Components of Native Ca <sup>2+</sup> -triggered Membrane Fusion. <i>Annals of the New York Academy of Sciences</i> , 2009, 1152, 121-134.	1.8	26
40	Cholesterol-Independent Effects of Methyl- $\beta$ -Cyclodextrin on Chemical Synapses. <i>PLoS ONE</i> , 2012, 7, e36395.	1.1	24
41	Suppression of the Peripheral Immune System Limits the Central Immune Response Following Cuprizone-Feeding: Relevance to Modelling Multiple Sclerosis. <i>Cells</i> , 2019, 8, 1314.	1.8	24
42	A new approach to the molecular analysis of docking, priming, and regulated membrane fusion. <i>Journal of Chemical Biology</i> , 2011, 4, 117-136.	2.2	22
43	CD8 T-cell Recruitment Into the Central Nervous System of Cuprizone-Fed Mice: Relevance to Modeling the Etiology of Multiple Sclerosis. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 43.	1.8	22
44	Proteome Resolution by Two-Dimensional Gel Electrophoresis Varies with the Commercial Source of IPC Strips. <i>Journal of Proteome Research</i> , 2006, 5, 2919-2927.	1.8	21
45	Changes to the Human Serum Proteome in Response to High Intensity Interval Exercise: A Sequential Top-Down Proteomic Analysis. <i>Frontiers in Physiology</i> , 2019, 10, 362.	1.3	21
46	An initial top-down proteomic analysis of the standard cuprizone mouse model of multiple sclerosis. <i>Journal of Chemical Biology</i> , 2016, 9, 9-18.	2.2	20
47	Comment on "Transmembrane Segments of Syntaxin Line the Fusion Pore of Ca <sup>2+</sup> -Triggered Exocytosis". <i>Science</i> , 2004, 306, 813b-813b.	6.0	19
48	Anionic lipids in Ca <sup>2+</sup> -triggered fusion. <i>Cell Calcium</i> , 2012, 52, 259-269.	1.1	19
49	Increased lipid droplet accumulation associated with a peripheral sensory neuropathy. <i>Journal of Chemical Biology</i> , 2014, 7, 67-76.	2.2	19
50	Coomassie does it (better): A Robin Hood approach to total protein quantification. <i>Analytical Biochemistry</i> , 2018, 556, 53-56.	1.1	18
51	Membrane fusion of secretory vesicles of the sea urchin egg in the absence of NSF. <i>Journal of Cell Science</i> , 2004, 117, 2345-2356.	1.2	17
52	Comparative proteomic analysis of two pathogenic <i>Tritrichomonas foetus</i> genotypes: there is more to the proteome than meets the eye. <i>International Journal for Parasitology</i> , 2017, 47, 203-213.	1.3	16
53	The Role of Phospholipase D in Regulated Exocytosis. <i>Journal of Biological Chemistry</i> , 2015, 290, 28683-28696.	1.6	15
54	A Routine "Top-Down"™ Approach to Analysis of the Human Serum Proteome. <i>Proteomes</i> , 2017, 5, 13.	1.7	14

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55	Actin is not an essential component in the mechanism of calcium-triggered vesicle fusion. <i>International Journal of Biochemistry and Cell Biology</i> , 2006, 38, 461-471.	1.2	13
56	Enhancement of the Ca <sup>2+</sup> -triggering steps of native membrane fusion via thiol-reactivity. <i>Journal of Chemical Biology</i> , 2009, 2, 27-37.	2.2	13
57	Regulated exocytosis per partes. <i>Cell Calcium</i> , 2012, 52, 191-195.	1.1	13
58	Proteomics of Multiple Sclerosis: Inherent Issues in Defining the Pathoetiology and Identifying (Early) Biomarkers. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7377.	1.8	13
59	Vesicle cholesterol controls exocytotic fusion pore. <i>Cell Calcium</i> , 2022, 101, 102503.	1.1	13
60	Cholesterol-mediated membrane surface area dynamics in neuroendocrine cells. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2013, 1831, 1228-1238.	1.2	12
61	Secretory vesicle cholesterol: Correlating lipid domain organization and Ca <sup>2+</sup> triggered fusion. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 1165-1174.	1.4	10
62	Observations of calcium dynamics in cortical secretory vesicles. <i>Cell Calcium</i> , 2012, 52, 217-225.	1.1	9
63	Proteomics of a conundrum: Thoughts on addressing the aetiology versus progression of multiple sclerosis. <i>Proteomics - Clinical Applications</i> , 2015, 9, 838-843.	0.8	9
64	Mitochondrial protein alterations in a familial peripheral neuropathy caused by the V144D amino acid mutation in the sphingolipid protein, SPTLC1. <i>Journal of Chemical Biology</i> , 2015, 8, 25-35.	2.2	9
65	Critical Role of Cortical Vesicles in Dissecting Regulated Exocytosis: Overview of Insights Into Fundamental Molecular Mechanisms. <i>Biological Bulletin</i> , 2013, 224, 200-217.	0.7	9
66	Sphingolipids modulate docking, Ca <sup>2+</sup> sensitivity and membrane fusion of native cortical vesicles. <i>International Journal of Biochemistry and Cell Biology</i> , 2018, 104, 43-54.	1.2	8
67	Dissecting the mechanism of Ca <sup>2+</sup> -triggered membrane fusion: Probing protein function using thiol reactivity. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2010, 37, 208-217.	0.9	7
68	Optimal isolation of mitochondria for proteomic analyses. <i>Analytical Biochemistry</i> , 2015, 475, 1-3.	1.1	7
69	ProteinProcessor: A probabilistic analysis using mass accuracy and the MS spectrum. <i>Proteomics</i> , 2016, 16, 2480-2490.	1.3	7
70	First Trimester Protein Biomarkers for Risk of Spontaneous Preterm Birth: Identifying a Critical Need for More Rigorous Approaches to Biomarker Identification and Validation. <i>Fetal Diagnosis and Therapy</i> , 2020, 47, 497-506.	0.6	7
71	Phospholipase A2: Potential roles in native membrane fusion. <i>International Journal of Biochemistry and Cell Biology</i> , 2017, 85, 1-5.	1.2	6
72	Arachidonic acid and lysophosphatidylcholine inhibit multiple late steps of regulated exocytosis. <i>Biochemical and Biophysical Research Communications</i> , 2019, 515, 261-267.	1.0	5

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73	A "green" approach to fixing polyacrylamide gels. <i>Analytical Biochemistry</i> , 2020, 605, 113853.	1.1	5
74	Histological and Top-Down Proteomic Analyses of the Visual Pathway in the Cuprizone Demyelination Model. <i>Journal of Molecular Neuroscience</i> , 2022, 72, 1374-1401.	1.1	5
75	Exposure to microwave irradiation at constant culture temperature slows the growth of <i>Escherichia coli</i> DE3 cells, leading to modified proteomic profiles. <i>RSC Advances</i> , 2019, 9, 11810-11817.	1.7	4
76	Combined targeted Omic and Functional Assays Identify Phospholipases A2 that Regulate Docking/Priming in Calcium-Trigged Exocytosis. <i>Cells</i> , 2019, 8, 303.	1.8	4
77	Unbiased Thiol-Labeling and Top-Down Proteomic Analyses Implicate Multiple Proteins in the Late Steps of Regulated Secretion. <i>Proteomes</i> , 2019, 7, 34.	1.7	4
78	A Systems Biology Approach to Understanding the Mechanisms of Action of an Alternative Anticancer Compound in Comparison to Cisplatin. <i>Proteomes</i> , 2014, 2, 501-526.	1.7	3
79	Calcium-Mediated Calpain Activation and Microtubule Dissociation in Cell Model of Hereditary Sensory Neuropathy Type-1 Expressing V144D <i>SPTLC1</i> Mutation. <i>DNA and Cell Biology</i> , 2022, 41, 225-234.	0.9	3
80	Editorial for Special Issue: Approaches to Top-Down Proteomics: In Honour of Prof. Patrick H. O'Farrell. <i>Proteomes</i> , 2017, 5, 18.	1.7	2
81	Measuring hydrogen peroxide reduction using a robust, inexpensive, and sensitive method. <i>Journal of Chemical Biology</i> , 2012, 5, 143-150.	2.2	1
82	Application of High-Throughput Assays to Examine Phospho-Modulation of the Late Steps of Regulated Exocytosis. <i>High-Throughput</i> , 2017, 6, 17.	4.4	1
83	Application of the RBBP9 Serine Hydrolase Inhibitor, ML114, Decouples Human Pluripotent Stem Cell Proliferation and Differentiation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8983.	1.8	1
84	Special Issue "Top-down Proteomics: In Memory of Dr Alfred Yergey" Alfred Linwood Yergey, III, 17 September 1941–27 May 2018. <i>Proteomes</i> , 2020, 8, 1.	1.7	1
85	The Sea Urchin Egg and Cortical Vesicles as Model Systems to Dissect the Fast, Ca <sup>2+</sup> -Triggered Steps of Regulated Exocytosis. <i>Neuromethods</i> , 2014, , 221-241.	0.2	1
86	Zika Virus Replication in a Mast Cell Model is Augmented by Dengue Virus Antibody-Dependent Enhancement and Features a Selective Immune Mediator Secretory Profile. <i>Microbiology Spectrum</i> , 0, , .	1.2	1
87	Quantitative Gel Electrophoresis. , 2018, , 17-35.		0
88	High Sensitivity Top-down Proteomics: Coomassie for In-gel Proteoform Detection Rivals MS-based Peptide Detection. <i>FASEB Journal</i> , 2018, 32, 802.13.	0.2	0
89	Profit versus Quality: The Enigma of Scientific Wellness. <i>Journal of Personalized Medicine</i> , 2022, 12, 34.	1.1	0