# Jens R Coorssen

## List of Publications by Year in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 89 papers | 2,993 citations | 136950 32 h-index | 182427 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. Journal of the American Society for Mass Spectrometry, 2002, 13, 784-791. | 2.8 | 189 |
| 2 | Cholesterol facilitates the native mechanism of Ca2+-triggered membrane fusion. Journal of Cell Science, 2005, 118, 4833-4848. | 2.0 | 171 |
| 3 | Specific Lipids Supply Critical Negative Spontaneous Curvatureâ€"An Essential Component of Native Ca2+-Triggered Membrane Fusion. Biophysical Journal, 2008, 94, 3976-3986. | 0.5 | 153 |
| 4 | Biochemical and Functional Studies of Cortical Vesicle Fusion: The SNARE Complex and Ca2+ Sensitivity. Journal of Cell Biology, 1998, 143, 1845-1857. | 5.2 | 146 |
| 5 | 2DE: The Phoenix of Proteomics. Journal of Proteomics, 2014, 104, 140-150. | 2.4 | 123 |
| 6 | Calcium Can Disrupt the SNARE Protein Complex on Sea Urchin Egg Secretory Vesicles without Irreversibly Blocking Fusion. Journal of Biological Chemistry, 1998, 273, 33667-33673. | 3.4 | 85 |
| 7 | Quantitative proteomics: assessing the spectrum of in-gel protein detection methods. Journal of Chemical Biology, 2011, 4, 3-29. | 2.2 | 85 |
| 8 | Assessing Detection Methods for Gel-Based Proteomic Analyses. Journal of Proteome Research, 2007, 6, 1418-1425. | 3.7 | 83 |
| 9 | Enhanced detergent extraction for analysis of membrane proteomes by two-dimensional gel electrophoresis. Proteome Science, 2005, 3, 5. | 1.7 | 68 |
| 10 | Postfractionation for Enhanced Proteomic Analyses:Â Routine Electrophoretic Methods Increase the Resolution of Standard 2D-PAGE. Journal of Proteome Research, 2005, 4, 982-991. | 3.7 | 65 |
| 11 | Cholesterol, regulated exocytosis and the physiological fusion machine. Biochemical Journal, 2009, 423, 1-14. | 3.7 | 65 |
| 12 | Sphingomyelin-enriched microdomains define the efficiency of native Ca2+-triggered membrane fusion. Journal of Cell Science, 2006, 119, 2688-2694. | 2.0 | 64 |
| 13 | Quantitative femto- to attomole immunodetection of regulated secretory vesicle proteins critical to exocytosis. Analytical Biochemistry, 2002, 307, 54-62. | 2.4 | 57 |
| 14 | GTPÎ³S and phorbol ester act synergistically to stimulate both Ca2+-independent secretion and phospholipase D activity in permeabilized human platelets. FEBS Letters, 1993, 316, 170-174. | 2.8 | 56 |
| 15 | Pre-extraction Sample Handling by Automated Frozen Disruption Significantly Improves Subsequent Proteomic Analyses. Journal of Proteome Research, 2006, 5, 437-448. | 3.7 | 56 |
| 16 | Regulated secretion: SNARE density, vesicle fusion and calcium dependence. Journal of Cell Science, 2003, 116, 2087-2097. | 2.0 | 55 |
| 17 | Behavioural phenotypes in the cuprizone model of central nervous system demyelination. Neuroscience and Biobehavioral Reviews, 2019, 107, 23-46. | 6.1 | 55 |
| 18 | Drosophiladevelopment, physiology, behavior, and lifespan are influenced by altered dietary composition. Fly, 2017, 11, 153-170. | 1.7 | 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. Proteomes, 2019, 7, 36. | 3.5 | 53 |
| 20 | An Initial Proteomic Analysis of Human Preterm Labor:Â Placental Membranes. Journal of Proteome Research, 2006, 5, 3161-3172. | 3.7 | 52 |
| 21 | An evaluation ofin vitro proteinâ€“protein interaction techniques: Assessing contaminating background proteins. Proteomics, 2006, 6, 2050-2069. | 2.2 | 52 |
| 22 | Effects of cholesterol on the structural transitions induced by diacylglycerol in phosphatidylcholine and phosphatidylethanolamine bilayer systems. Biochemistry and Cell Biology, 1990, 68, 65-69. | 2.0 | 49 |
| 23 | The roles of microglia and astrocytes in phagocytosis and myelination: Insights from the cuprizone model of multiple sclerosis. Glia, 2022, 70, 1215-1250. | 4.9 | 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. Journal of Chemical Biology, 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. Proteomes, 2015, 3, 440-453. | 3.5 | 48 |
| 26 | Calcium-triggered Membrane Fusion Proceeds Independently of Specific Presynaptic Proteins. Journal of Biological Chemistry, 2003, 278, 24251-24254. | 3.4 | 47 |
| 27 | Proteomes Are of Proteoforms: Embracing the Complexity. Proteomes, 2021, 9, 38. | 3.5 | 46 |
| 28 | Revisiting the role of SNAREs in exocytosis and membrane fusion. Biochimica Et Biophysica Acta - Molecular Cell Research, 2003, 1641, 121-135. | 4.1 | 45 |
| 29 | Coomassie blue staining for high sensitivity gel-based proteomics. Journal of Proteomics, 2013, 90, 96-106. | 2.4 | 45 |
| 30 | Topâ€‹down proteomics: Enhancing 2D gel electrophoresis from tissue processing to highâ€‹sensitivity protein detection. Proteomics, 2014, 14, 872-889. | 2.2 | 45 |
| 31 | Enabling Coupled Quantitative Genomics and Proteomics Analyses from Rat Spinal Cord Samples. Molecular and Cellular Proteomics, 2007, 6, 1574-1588. | 3.8 | 40 |
| 32 | Coomassie Blue as a Near-infrared Fluorescent Stain: A Systematic Comparison With Sypro Ruby for In-gel Protein Detection. Molecular and Cellular Proteomics, 2013, 12, 3834-3850. | 3.8 | 40 |
| 33 | Proteomic analysis of first trimester maternal serum to identify candidate biomarkers potentially predictive of spontaneous preterm birth. Journal of Proteomics, 2018, 178, 31-42. | 2.4 | 34 |
| 34 | Revisiting the Pathoetiology of Multiple Sclerosis: Has the Tail Been Wagging the Mouse?. Frontiers in Immunology, 2020, 11, 572186. | 4.8 | 33 |
| 35 | Deep Imaging: How Much of the Proteome Does Current Top-Down Technology Already Resolve?. PLoS ONE, 2014, 9, e86058. | 2.5 | 31 |
| 36 | Behavioural and histological changes in cuprizone-fed mice. Brain, Behavior, and Immunity, 2020, 87, 508-523. | 4.1 | 29 |

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|---|---|---|---|
| 37 | Coomassie staining provides routine (sub)femtomole inâ€gel detection of intact proteoforms: Expanding opportunities for genuine Topâ€down Proteomics. Electrophoresis, 2017, 38, 3086-3099. | 2.4 | 28 |
| 38 | Sea urchin egg preparations as systems for the study of calcium-triggered exocytosis. Journal of Physiology, 1999, 520, 15-21. | 2.9 | 26 |
| 39 | Identifying Critical Components of Native Ca<sup>2+</sup>â€triggered Membrane Fusion. Annals of the New York Academy of Sciences, 2009, 1152, 121-134. | 3.8 | 26 |
| 40 | Cholesterol-Independent Effects of Methyl-Î²-Cyclodextrin on Chemical Synapses. PLoS ONE, 2012, 7, e36395. | 2.5 | 24 |
| 41 | Suppression of the Peripheral Immune System Limits the Central Immune Response Following Cuprizone-Feeding: Relevance to Modelling Multiple Sclerosis. Cells, 2019, 8, 1314. | 4.1 | 24 |
| 42 | A new approach to the molecular analysis of docking, priming, and regulated membrane fusion. Journal of Chemical Biology, 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. Frontiers in Cellular Neuroscience, 2020, 14, 43. | 3.7 | 22 |
| 44 | Proteome Resolution by Two-Dimensional Gel Electrophoresis Varies with the Commercial Source of IPG Strips. Journal of Proteome Research, 2006, 5, 2919-2927. | 3.7 | 21 |
| 45 | Changes to the Human Serum Proteome in Response to High Intensity Interval Exercise: A Sequential Top-Down Proteomic Analysis. Frontiers in Physiology, 2019, 10, 362. | 2.8 | 21 |
| 46 | An initial top-down proteomic analysis of the standard cuprizone mouse model of multiple sclerosis. Journal of Chemical Biology, 2016, 9, 9-18. | 2.2 | 20 |
| 47 | Comment on "Transmembrane Segments of Syntaxin Line the Fusion Pore of Ca2+-Triggered Exocytosis". Science, 2004, 306, 813b-813b. | 12.6 | 19 |
| 48 | Anionic lipids in Ca2+-triggered fusion. Cell Calcium, 2012, 52, 259-269. | 2.4 | 19 |
| 49 | Increased lipid droplet accumulation associated with a peripheral sensory neuropathy. Journal of Chemical Biology, 2014, 7, 67-76. | 2.2 | 19 |
| 50 | Coomassie does it (better): A Robin Hood approach to total protein quantification. Analytical Biochemistry, 2018, 556, 53-56. | 2.4 | 18 |
| 51 | Membrane fusion of secretory vesicles of the sea urchin egg in the absence of NSF. Journal of Cell Science, 2004, 117, 2345-2356. | 2.0 | 17 |
| 52 | Comparative proteomic analysis of two pathogenic Tritrichomonas foetus genotypes: there is more to the proteome than meets the eye. International Journal for Parasitology, 2017, 47, 203-213. | 3.1 | 16 |
| 53 | The Role of Phospholipase D in Regulated Exocytosis. Journal of Biological Chemistry, 2015, 290, 28683-28696. | 3.4 | 15 |
| 54 | A Routine â€˜Top-Downâ€™ Approach to Analysis of the Human Serum Proteome. Proteomes, 2017, 5, 13. | 3.5 | 14 |

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|---|---|---|---|
| 55 | Actin is not an essential component in the mechanism of calcium-triggered vesicle fusion. International Journal of Biochemistry and Cell Biology, 2006, 38, 461-471. | 2.8 | 13 |
| 56 | Enhancement of the Ca2+-triggering steps of native membrane fusion via thiol-reactivity. Journal of Chemical Biology, 2009, 2, 27-37. | 2.2 | 13 |
| 57 | Regulated exocytosis per partes. Cell Calcium, 2012, 52, 191-195. | 2.4 | 13 |
| 58 | Proteomics of Multiple Sclerosis: Inherent Issues in Defining the Pathoetiology and Identifying (Early) Biomarkers. International Journal of Molecular Sciences, 2021, 22, 7377. | 4.1 | 13 |
| 59 | Vesicle cholesterol controls exocytotic fusion pore. Cell Calcium, 2022, 101, 102503. | 2.4 | 13 |
| 60 | Cholesterol-mediated membrane surface area dynamics in neuroendocrine cells. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2013, 1831, 1228-1238. | 2.4 | 12 |
| 61 | Secretory vesicle cholesterol: Correlating lipid domain organization and Ca2+ triggered fusion. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 1165-1174. | 2.6 | 10 |
| 62 | Observations of calcium dynamics in cortical secretory vesicles. Cell Calcium, 2012, 52, 217-225. | 2.4 | 9 |
| 63 | Proteomics of a conundrum: Thoughts on addressing the aetiology versus progression of multiple sclerosis. Proteomics - Clinical Applications, 2015, 9, 838-843. | 1.6 | 9 |
| 64 | Mitochondrial protein alterations in a familial peripheral neuropathy caused by the V144D amino acid mutation in the sphingolipid protein, SPTLC1. Journal of Chemical Biology, 2015, 8, 25-35. | 2.2 | 9 |
| 65 | Critical Role of Cortical Vesicles in Dissecting Regulated Exocytosis: Overview of Insights Into Fundamental Molecular Mechanisms. Biological Bulletin, 2013, 224, 200-217. | 1.8 | 9 |
| 66 | Sphingolipids modulate docking, Ca2+ sensitivity and membrane fusion of native cortical vesicles. International Journal of Biochemistry and Cell Biology, 2018, 104, 43-54. | 2.8 | 8 |
| 67 | Dissecting the mechanism of Ca<sup>2+</sup>â€triggered membrane fusion: Probing protein function using thiol reactivity. Clinical and Experimental Pharmacology and Physiology, 2010, 37, 208-217. | 1.9 | 7 |
| 68 | Optimal isolation of mitochondria for proteomic analyses. Analytical Biochemistry, 2015, 475, 1-3. | 2.4 | 7 |
| 69 | ProteinProcessor: A probabilistic analysis using mass accuracy and the MS spectrum. Proteomics, 2016, 16, 2480-2490. | 2.2 | 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. Fetal Diagnosis and Therapy, 2020, 47, 497-506. | 1.4 | 7 |
| 71 | Phospholipase A2: Potential roles in native membrane fusion. International Journal of Biochemistry and Cell Biology, 2017, 85, 1-5. | 2.8 | 6 |
| 72 | Arachidonic acid and lysophosphatidylcholine inhibit multiple late steps of regulated exocytosis. Biochemical and Biophysical Research Communications, 2019, 515, 261-267. | 2.1 | 5 |

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|---|---|---|---|
| 73 | A â€˜greenâ€™ approach to fixing polyacrylamide gels. Analytical Biochemistry, 2020, 605, 113853. | 2.4 | 5 |
| 74 | Histological and Top-Down Proteomic Analyses of the Visual Pathway in the Cuprizone Demyelination Model. Journal of Molecular Neuroscience, 2022, 72, 1374-1401. | 2.3 | 5 |
| 75 | Exposure to microwave irradiation at constant culture temperature slows the growth ofEscherichia coliDE3 cells, leading to modified proteomic profiles. RSC Advances, 2019, 9, 11810-11817. | 3.6 | 4 |
| 76 | Combined targeted Omic and Functional Assays Identify Phospholipases A2 that Regulate Docking/Priming in Calcium-Triggered Exocytosis. Cells, 2019, 8, 303. | 4.1 | 4 |
| 77 | Unbiased Thiol-Labeling and Top-Down Proteomic Analyses Implicate Multiple Proteins in the Late Steps of Regulated Secretion. Proteomes, 2019, 7, 34. | 3.5 | 4 |
| 78 | A Systems Biology Approach to Understanding the Mechanisms of Action of an Alternative Anticancer Compound in Comparison to Cisplatin. Proteomes, 2014, 2, 501-526. | 3.5 | 3 |
| 79 | Calcium-Mediated Calpain Activation and Microtubule Dissociation in Cell Model of Hereditary Sensory Neuropathy Type-1 Expressing V144D SPTLC1 Mutation. DNA and Cell Biology, 2022, 41, 225-234. | 1.9 | 3 |
| 80 | Editorial for Special Issue: Approaches to Top-Down Proteomics: In Honour of Prof. Patrick H. Oâ€™Farrell. Proteomes, 2017, 5, 18. | 3.5 | 2 |
| 81 | Measuring hydrogen peroxide reduction using a robust, inexpensive, and sensitive method. Journal of Chemical Biology, 2012, 5, 143-150. | 2.2 | 1 |
| 82 | Application of High-Throughput Assays to Examine Phospho-Modulation of the Late Steps of Regulated Exocytosis. High-Throughput, 2017, 6, 17. | 4.4 | 1 |
| 83 | Application of the RBBP9 Serine Hydrolase Inhibitor, ML114, Decouples Human Pluripotent Stem Cell Proliferation and Differentiation. International Journal of Molecular Sciences, 2020, 21, 8983. | 4.1 | 1 |
| 84 | Special Issue â€œTop-down Proteomics: In Memory of Dr Alfred Yergeyâ€: Alfred Linwood Yergey, III, 17 September 1941â€“27 May 2018. Proteomes, 2020, 8, 1. | 3.5 | 1 |
| 85 | The Sea Urchin Egg and Cortical Vesicles as Model Systems to Dissect the Fast, Ca2+-Triggered Steps of Regulated Exocytosis. Neuromethods, 2014, , 221-241. | 0.3 | 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. Microbiology Spectrum, 0, , . | 3.0 | 1 |
| 87 | Quantitative Gel Electrophoresis. , 2018, , 17-35. | | 0 |
| 88 | High Sensitivity Topâ€down Proteomics: Coomassie for Inâ€gel Proteoform Detection Rivals MSâ€based Peptide Detection. FASEB Journal, 2018, 32, 802.13. | 0.5 | 0 |
| 89 | Profit versus Quality: The Enigma of Scientific Wellness. Journal of Personalized Medicine, 2022, 12, 34. | 2.5 | 0 |