

Jolene K Diedrich

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

4,181
citations

117571

34
h-index

138417

58
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97
all docs

97
docs citations

97
times ranked

7256
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | The SARS-CoV-2 nucleocapsid phosphoprotein forms mutually exclusive condensates with RNA and the membrane-associated M protein. <i>Nature Communications</i> , 2021, 12, 502. | 5.8 | 307 |
| 2 | Structural analysis of full-length SARS-CoV-2 spike protein from an advanced vaccine candidate. <i>Science</i> , 2020, 370, 1089-1094. | 6.0 | 290 |
| 3 | Extracting Accurate Precursor Information for Tandem Mass Spectra by RawConverter. <i>Analytical Chemistry</i> , 2015, 87, 11361-11367. | 3.2 | 241 |
| 4 | A two-step mechanism for TRF2-mediated chromosome-end protection. <i>Nature</i> , 2013, 494, 502-505. | 13.7 | 198 |
| 5 | Primate-Specific ORF0 Contributes to Retrotransposon-Mediated Diversity. <i>Cell</i> , 2015, 163, 583-593. | 13.5 | 177 |
| 6 | Global site-specific N-glycosylation analysis of HIV envelope glycoprotein. <i>Nature Communications</i> , 2017, 8, 14954. | 5.8 | 176 |
| 7 | Differential processing of HIV envelope glycans on the virus and soluble recombinant trimer. <i>Nature Communications</i> , 2018, 9, 3693. | 5.8 | 124 |
| 8 | Improved Identification and Analysis of Small Open Reading Frame Encoded Polypeptides. <i>Analytical Chemistry</i> , 2016, 88, 3967-3975. | 3.2 | 119 |
| 9 | Regulation of the ER stress response by a mitochondrial microprotein. <i>Nature Communications</i> , 2019, 10, 4883. | 5.8 | 115 |
| 10 | The human naive B cell repertoire contains distinct subclasses for a germline-targeting HIV-1 vaccine immunogen. <i>Science Translational Medicine</i> , 2018, 10, . | 5.8 | 113 |
| 11 | S-Nitrosylation of PINK1 Attenuates PINK1/Parkin-Dependent Mitophagy in hiPSC-Based Parkinson's Disease Models. <i>Cell Reports</i> , 2017, 21, 2171-2182. | 2.9 | 103 |
| 12 | Saliva from nymph and adult females of <i>Haemaphysalis longicornis</i> : a proteomic study. <i>Parasites and Vectors</i> , 2015, 8, 338. | 1.0 | 97 |
| 13 | Intracellular Action of a Secreted Peptide Required for Fungal Virulence. <i>Cell Host and Microbe</i> , 2016, 19, 849-864. | 5.1 | 93 |
| 14 | Direct Elucidation of Disulfide Bond Partners Using Ultraviolet Photodissociation Mass Spectrometry. <i>Analytical Chemistry</i> , 2011, 83, 6455-6458. | 3.2 | 91 |
| 15 | Evolutionary Persistence of DNA Methylation for Millions of Years after Ancient Loss of a De Novo Methyltransferase. <i>Cell</i> , 2020, 180, 263-277.e20. | 13.5 | 87 |
| 16 | Global site-specific analysis of glycoprotein N-glycan processing. <i>Nature Protocols</i> , 2018, 13, 1196-1212. | 5.5 | 71 |
| 17 | Sequential primed kinases create a damage-responsive phosphodegron on Eco1. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 194-201. | 3.6 | 70 |
| 18 | MIEF1 Microprotein Regulates Mitochondrial Translation. <i>Biochemistry</i> , 2018, 57, 5564-5575. | 1.2 | 70 |

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|----|---|-----|-----------|
| 19 | Site-Specific Radical Directed Dissociation of Peptides at Phosphorylated Residues. <i>Journal of the American Chemical Society</i> , 2008, 130, 12212-12213. | 6.6 | 69 |
| 20 | Energy Dependence of HCD on Peptide Fragmentation: Stepped Collisional Energy Finds the Sweet Spot. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 1690-1699. | 1.2 | 69 |
| 21 | 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 |
| 22 | Cortical organoids model early brain development disrupted by 16p11.2 copy number variants in autism. <i>Molecular Psychiatry</i> , 2021, 26, 7560-7580. | 4.1 | 61 |
| 23 | Census 2: isobaric labeling data analysis. <i>Bioinformatics</i> , 2014, 30, 2208-2209. | 1.8 | 59 |
| 24 | Intracellular amyloid toxicity induces oxytosis/ferroptosis regulated cell death. <i>Cell Death and Disease</i> , 2020, 11, 828. | 2.7 | 59 |
| 25 | Across intra-mammalian stages of the liver <i>Fasciola hepatica</i> : a proteomic study. <i>Scientific Reports</i> , 2016, 6, 32796. | 1.6 | 57 |
| 26 | Visualization of the HIV-1 Env glycan shield across scales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 28014-28025. | 3.3 | 57 |
| 27 | Site-Specific O-Glycosylation Analysis of SARS-CoV-2 Spike Protein Produced in Insect and Human Cells. <i>Viruses</i> , 2021, 13, 551. | 1.5 | 57 |
| 28 | Site-Selective Fragmentation of Peptides and Proteins at Quinone-Modified Cysteine Residues Investigated by ESI-MS. <i>Analytical Chemistry</i> , 2010, 82, 4006-4014. | 3.2 | 55 |
| 29 | Identification of Microprotein-Protein Interactions via APEX Tagging. <i>Biochemistry</i> , 2017, 56, 3299-3306. | 1.2 | 44 |
| 30 | Isolation of Chromatin from Dysfunctional Telomeres Reveals an Important Role for Ring1b in NHEJ-Mediated Chromosome Fusions. <i>Cell Reports</i> , 2014, 7, 1320-1332. | 2.9 | 43 |
| 31 | A proteomic insight into vitellogenesis during tick ovary maturation. <i>Scientific Reports</i> , 2018, 8, 4698. | 1.6 | 42 |
| 32 | A systems mechanism for KRAS mutant allele-specific responses to targeted therapy. <i>Science Signaling</i> , 2019, 12, . | 1.6 | 42 |
| 33 | Double mimicry evades tRNA synthetase editing by toxic vegetable-sourced non-proteinogenic amino acid. <i>Nature Communications</i> , 2017, 8, 2281. | 5.8 | 41 |
| 34 | Loss of MAGEL2 in Prader-Willi syndrome leads to decreased secretory granule and neuropeptide production. <i>JCI Insight</i> , 2020, 5, . | 2.3 | 40 |
| 35 | Time-resolved proteomic profile of <i>Amblyomma americanum</i> tick saliva during feeding. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0007758. | 1.3 | 40 |
| 36 | Altered network and rescue of human neurons derived from individuals with early-onset genetic epilepsy. <i>Molecular Psychiatry</i> , 2021, 26, 7047-7068. | 4.1 | 38 |

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|----|---|-----|-----------|
| 37 | HtrA1 Proteolysis of ApoE In Vitro Is Allele Selective. <i>Journal of the American Chemical Society</i> , 2016, 138, 9473-9478. | 6.6 | 37 |
| 38 | Protein Footprinting via Covalent Protein Painting Reveals Structural Changes of the Proteome in Alzheimer's Disease. <i>Journal of Proteome Research</i> , 2021, 20, 2762-2771. | 1.8 | 34 |
| 39 | A short ORF-encoded transcriptional regulator. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 3.3 | 33 |
| 40 | SHMT2 and the BRCC36/BRISC deubiquitinase regulate HIV-1 Tat K63-ubiquitylation and destruction by autophagy. <i>PLoS Pathogens</i> , 2018, 14, e1007071. | 2.1 | 32 |
| 41 | Facile Identification of Phosphorylation Sites in Peptides by Radical Directed Dissociation. <i>Analytical Chemistry</i> , 2011, 83, 6818-6826. | 3.2 | 30 |
| 42 | Identification and characterization of proteins in the <i>Amblyomma americanum</i> tick cement cone. <i>International Journal for Parasitology</i> , 2018, 48, 211-224. | 1.3 | 27 |
| 43 | EThcD and 213 nm UVPD for Top-Down Analysis of Bovine Seminal Plasma Proteoforms on Electrophoretic and Chromatographic Time Frames. <i>Analytical Chemistry</i> , 2020, 92, 2979-2987. | 3.2 | 26 |
| 44 | Autism-linked Cullin3 germline haploinsufficiency impacts cytoskeletal dynamics and cortical neurogenesis through RhoA signaling. <i>Molecular Psychiatry</i> , 2021, 26, 3586-3613. | 4.1 | 26 |
| 45 | Regulation of ex-translational activities is the primary function of the multi-tRNA synthetase complex. <i>Nucleic Acids Research</i> , 2021, 49, 3603-3616. | 6.5 | 25 |
| 46 | Human Influenza Virus Hemagglutinins Contain Conserved Oligomannose N-Linked Glycans Allowing Potent Neutralization by Lectins. <i>Cell Host and Microbe</i> , 2020, 27, 725-735.e5. | 5.1 | 22 |
| 47 | Internal Fragments Generated from Different Top-Down Mass Spectrometry Fragmentation Methods Extend Protein Sequence Coverage. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1752-1758. | 1.2 | 22 |
| 48 | Coupling of spliceosome complexity to intron diversity. <i>Current Biology</i> , 2021, 31, 4898-4910.e4. | 1.8 | 22 |
| 49 | Mechanism-Based Post-Translational Modification and Inactivation in Terpene Synthases. <i>ACS Chemical Biology</i> , 2015, 10, 2501-2511. | 1.6 | 21 |
| 50 | Proteomic Analysis of Peripheral Blood Mononuclear Cells after a High-Fat, High-Carbohydrate Meal with Orange Juice. <i>Journal of Proteome Research</i> , 2017, 16, 4086-4092. | 1.8 | 21 |
| 51 | Separation of miRNA and its methylation products by capillary electrophoresis. <i>Journal of Chromatography A</i> , 2008, 1202, 220-223. | 1.8 | 18 |
| 52 | A Non-Dicer RNase III and Four Other Novel Factors Required for RNAi-Mediated Transposon Suppression in the Human Pathogenic Yeast <i>Cryptococcus neoformans</i> . <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 2235-2244. | 0.8 | 18 |
| 53 | BRCA1/BARD1-dependent ubiquitination of NF2 regulates Hippo-YAP1 signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 7363-7370. | 3.3 | 17 |
| 54 | <i>Amblyomma americanum</i> serpin 41 (AAS41) inhibits inflammation by targeting chymase and chymotrypsin. <i>International Journal of Biological Macromolecules</i> , 2020, 156, 1007-1021. | 3.6 | 17 |

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|----|---|-----|-----------|
| 55 | The INO80 Complex Regulates Epigenetic Inheritance of Heterochromatin. <i>Cell Reports</i> , 2020, 33, 108561. | 2.9 | 17 |
| 56 | Blood anticlotting activity of a <i>Rhipicephalus microplus</i> cathepsin L-like enzyme. <i>Biochimie</i> , 2019, 163, 12-20. | 1.3 | 14 |
| 57 | Tick Genes' organ engagement in lipid metabolism revealed by a combined transcriptomic and proteomic approach. <i>Ticks and Tick-borne Diseases</i> , 2019, 10, 787-797. | 1.1 | 12 |
| 58 | Expression of Amyloidogenic Transthyretin Drives Hepatic Proteostasis Remodeling in an Induced Pluripotent Stem Cell Model of Systemic Amyloid Disease. <i>Stem Cell Reports</i> , 2020, 15, 515-528. | 2.3 | 12 |
| 59 | Proteomics Profiling of KAIMRC1 in Comparison to MDA-MB231 and MCF-7. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4328. | 1.8 | 12 |
| 60 | <i>Borrelia burgdorferi</i> infection modifies protein content in saliva of <i>Ixodes scapularis</i> nymphs. <i>BMC Genomics</i> , 2021, 22, 152. | 1.2 | 12 |
| 61 | CBD-1 organizes two independent complexes required for eggshell vitelline layer formation and egg activation in <i>C. elegans</i> . <i>Developmental Biology</i> , 2018, 442, 288-300. | 0.9 | 11 |
| 62 | Facile identification of photocleavable reactive metabolites and oxidative stress biomarkers in proteins via mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 2269-2277. | 1.9 | 10 |
| 63 | A proteomic comparison of excretion/secretion products in <i>Fasciola hepatica</i> newly excysted juveniles (NEJ) derived from <i>Lymnaea viatrix</i> or <i>Pseudosuccinea columella</i> . <i>Experimental Parasitology</i> , 2019, 201, 11-20. | 0.5 | 10 |
| 64 | Cross-editing by a tRNA synthetase allows vertebrates to abundantly express mischargeable tRNA without causing mistranslation. <i>Nucleic Acids Research</i> , 2020, 48, 6445-6457. | 6.5 | 10 |
| 65 | Intercepting IRE1 kinase eIF2 signaling prevents atherosclerosis progression. <i>EMBO Molecular Medicine</i> , 2022, 14, e15344. | 3.3 | 10 |
| 66 | Identification of myosin II as a cripto binding protein and regulator of cripto function in stem cells and tissue regeneration. <i>Biochemical and Biophysical Research Communications</i> , 2019, 509, 69-75. | 1.0 | 9 |
| 67 | Tandem Mass Tag Proteomic Analysis of in Vitro and in Vivo Models of Cutaneous Leishmaniasis Reveals Parasite-Specific and Nonspecific Modulation of Proteins in the Host. <i>ACS Infectious Diseases</i> , 2019, 5, 2136-2147. | 1.8 | 8 |
| 68 | DeGlyPHER: An Ultrasensitive Method for the Analysis of Viral Spike N-Glycoforms. <i>Analytical Chemistry</i> , 2021, 93, 13651-13657. | 3.2 | 7 |
| 69 | Cancer Conformational Landscape Shapes Tumorigenesis. <i>Journal of Proteome Research</i> , 2022, 21, 1017-1028. | 1.8 | 7 |
| 70 | Dataset supporting the proteomic differences found between excretion/secretion products from two isolates of <i>Fasciola hepatica</i> newly excysted juveniles (NEJ) derived from different snail hosts. <i>Data in Brief</i> , 2019, 25, 104272. | 0.5 | 2 |
| 71 | The San Diego Nathan Shock Center: tackling the heterogeneity of aging. <i>GeroScience</i> , 2021, 43, 2139-2148. | 2.1 | 2 |
| 72 | Interactome analysis illustrates diverse gene regulatory processes associated with LIN28A in human iPS cell-derived neural progenitor cells. <i>iScience</i> , 2021, 24, 103321. | 1.9 | 2 |

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|----|--|-----|-----------|
| 73 | Interactome Analysis Illustrates Diverse Gene Regulatory Processes Associated with LIN28A in Human iPS Cell-Derived Neural Progenitor Cells. SSRN Electronic Journal, 0, , . | 0.4 | 0 |