

Costel C Darie

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/670819/publications.pdf>

Version: 2024-02-01

105
papers

2,983
citations

172457

29
h-index

189892

50
g-index

108
all docs

108
docs citations

108
times ranked

2896
citing authors

#	ARTICLE	IF	CITATIONS
1	ZONA PELLUCIDA DOMAIN PROTEINS. Annual Review of Biochemistry, 2005, 74, 83-114.	11.1	263
2	A Critical Review of Bottom-Up Proteomics: The Good, the Bad, and the Future of This Field. Proteomes, 2020, 8, 14.	3.5	169
3	Investigation of stable and transient protein-protein interactions: Past, present, and future. Proteomics, 2013, 13, 538-557.	2.2	134
4	Stable Isotopic Labeling by Amino Acids in Cultured Primary Neurons. Molecular and Cellular Proteomics, 2008, 7, 1067-1076.	3.8	120
5	Protein-protein interactions: switch from classical methods to proteomics and bioinformatics-based approaches. Cellular and Molecular Life Sciences, 2014, 71, 205-228.	5.4	112
6	Potential biomarkers in psychiatry: focus on the cholesterol system. Journal of Cellular and Molecular Medicine, 2012, 16, 1184-1195.	3.6	95
7	Structural Characterization of Fish Egg Vitelline Envelope Proteins by Mass Spectrometry. Biochemistry, 2004, 43, 7459-7478.	2.5	90
8	Identifying transient protein-protein interactions in EphB2 signaling by blue native PAGE and mass spectrometry. Proteomics, 2011, 11, 4514-4528.	2.2	85
9	A Pilot Proteomic Analysis of Salivary Biomarkers in Autism Spectrum Disorder. Autism Research, 2015, 8, 338-350.	3.8	73
10	Proteomic analysis of plasma membranes isolated from undifferentiated and differentiated HepaRG cells. Proteome Science, 2012, 10, 47.	1.7	71
11	Recent aspects of mammalian fertilization research. Molecular and Cellular Endocrinology, 2005, 234, 95-103.	3.2	68
12	Isolation and structural characterization of the Ndh complex from mesophyll and bundle sheath chloroplasts of Zea mays. FEBS Journal, 2005, 272, 2705-2716.	4.7	66
13	Identification of Potential Tumor Differentiation Factor (TDF) Receptor from Steroid-responsive and Steroid-resistant Breast Cancer Cells*. Journal of Biological Chemistry, 2012, 287, 1719-1733.	3.4	56
14	Mass Spectrometric Evidence That Proteolytic Processing of Rainbow Trout Egg Vitelline Envelope Proteins Takes Place on the Egg. Journal of Biological Chemistry, 2005, 280, 37585-37598.	3.4	54
15	Disulfide proteomics for identification of extracellular or secreted proteins. Electrophoresis, 2012, 33, 2527-2536.	2.4	52
16	Purified mouse egg zona pellucida glycoproteins polymerize into homomeric fibrils under non-denaturing conditions. Journal of Cellular Physiology, 2008, 214, 153-157.	4.1	51
17	Identification of consistent alkylation of cysteine-less peptides in a proteomics experiment. Biochemical and Biophysical Research Communications, 2012, 419, 305-308.	2.1	51
18	Automated Mass Spectrometry-Based Functional Assay for the Routine Analysis of the Secretome. Journal of the Association for Laboratory Automation, 2013, 18, 19-29.	2.8	51

#	ARTICLE	IF	CITATIONS
19	Purified trout egg vitelline envelope proteins VE ¹² and VE ¹³ polymerize into homomeric fibrils from dimers in vitro. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 385-392.	2.3	44
20	Identification of a potential tumor differentiation factor receptor candidate in prostate cancer cells. <i>FEBS Journal</i> , 2012, 279, 2579-2594.	4.7	44
21	Comparative two-dimensional polyacrylamide gel electrophoresis of the salivary proteome of children with autism spectrum disorder. <i>Journal of Cellular and Molecular Medicine</i> , 2015, 19, 2664-2678.	3.6	39
22	Cancer Secretomes and Their Place in Supplementing Other Hallmarks of Cancer. <i>Advances in Experimental Medicine and Biology</i> , 2014, 806, 409-442.	1.6	38
23	Studies of the Ndh complex and photosystem II from mesophyll and bundle sheath chloroplasts of the C4-type plant <i>Zea mays</i> . <i>Journal of Plant Physiology</i> , 2006, 163, 800-808.	3.5	36
24	Automatic Determination of Disulfide Bridges in Proteins. <i>Journal of the Association for Laboratory Automation</i> , 2012, 17, 408-416.	2.8	36
25	Force-Induced Near-Infrared Chromism of Mechanophore-Linked Polymers. <i>Journal of the American Chemical Society</i> , 2021, 143, 17337-17343.	13.7	36
26	CLOCK Genes and Circadian Rhythmicity in Alzheimer Disease. <i>Journal of Aging Research</i> , 2011, 2011, 1-4.	0.9	35
27	A pilot proteomic study of protein markers in autism spectrum disorder. <i>Electrophoresis</i> , 2014, 35, 2046-2054.	2.4	34
28	Salivary proteomics and biomarkers in neurology and psychiatry. <i>Proteomics - Clinical Applications</i> , 2015, 9, 899-906.	1.6	32
29	Structural investigation of tumor differentiation factor. <i>Biotechnology and Applied Biochemistry</i> , 2012, 59, 445-450.	3.1	31
30	Mass spectrometry as a tool for studying autism spectrum disorder. <i>Journal of Molecular Psychiatry</i> , 2013, 1, 6.	2.0	31
31	Applications of Mass Spectrometry in Proteomics. <i>Australian Journal of Chemistry</i> , 2013, 66, 721.	0.9	30
32	Mass spectrometry for the detection of potential psychiatric biomarkers. <i>Journal of Molecular Psychiatry</i> , 2013, 1, 8.	2.0	30
33	Mass spectrometry investigation of glycosylation on the NXS/T sites in recombinant glycoproteins. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 1474-1483.	2.3	30
34	Applications of Tandem Mass Spectrometry (MS/MS) in Protein Analysis for Biomedical Research. <i>Molecules</i> , 2022, 27, 2411.	3.8	30
35	Identification of Post-Translational Modifications by Mass Spectrometry. <i>Australian Journal of Chemistry</i> , 2013, 66, 734.	0.9	29
36	Characterization of the anti-HBV activity of HLP ₂₃ , a human lactoferrin-derived peptide. <i>Journal of Medical Virology</i> , 2013, 85, 780-788.	5.0	28

#	ARTICLE	IF	CITATIONS
37	Atrial electrophysiological and molecular remodelling induced by obstructive sleep apnoea. <i>Journal of Cellular and Molecular Medicine</i> , 2017, 21, 2223-2235.	3.6	28
38	The potential of biomarkers in psychiatry: focus on proteomics. <i>Journal of Neural Transmission</i> , 2015, 122, 9-18.	2.8	27
39	Proteomics analysis of human breast milk to assess breast cancer risk. <i>Electrophoresis</i> , 2018, 39, 653-665.	2.4	27
40	Characterization of tumor differentiation factor (TDF) and its receptor (TDF-R). <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 2835-2848.	5.4	26
41	Identification of Posttranslational Modifications (PTMs) of Proteins by Mass Spectrometry. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1140, 199-224.	1.6	26
42	Blue Native PAGE and Mass Spectrometry Analysis of Ephrin Stimulation-Dependent Protein-Protein Interactions in NG108-EphB2 Cells. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2008, , 3-22.	0.5	23
43	Mass Spectrometry and its Applications in Life Sciences. <i>Australian Journal of Chemistry</i> , 2013, 66, 719.	0.9	23
44	Mass Spectrometry for Proteomics-Based Investigation of Oxidative Stress and Heat Shock Proteins. <i>ACS Symposium Series</i> , 2011, , 369-411.	0.5	22
45	Glucose-Triggered Insulin Release from Fe ³⁺ -Crosslinked Alginate Hydrogel: Experimental Study and Theoretical Modeling. <i>ChemPhysChem</i> , 2017, 18, 1541-1551.	2.1	22
46	Comparative two-dimensional polyacrylamide gel electrophoresis (2D-PAGE) of human milk to identify dysregulated proteins in breast cancer. <i>Electrophoresis</i> , 2018, 39, 1723-1734.	2.4	22
47	A bioelectronic system for insulin release triggered by ketone body mimicking diabetic ketoacidosis in vitro. <i>Chemical Communications</i> , 2015, 51, 7618-7621.	4.1	21
48	Comparative Proteomics Reveals Novel Components at the Plasma Membrane of Differentiated HepaRG Cells and Different Distribution in Hepatocyte- and Biliary-Like Cells. <i>PLoS ONE</i> , 2013, 8, e71859.	2.5	20
49	Proteomics based analysis of the nicotine catabolism in <i>Paenarthrobacter nicotinovorans</i> pAO1. <i>Scientific Reports</i> , 2018, 8, 16239.	3.3	19
50	Structure, Processing, and Polymerization of Rainbow Trout Egg Vitelline Envelope Proteins. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2008, , 23-36.	0.5	18
51	Mass Spectrometry for Proteomics-Based Investigation. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1140, 1-26.	1.6	18
52	Blue Native PAGE and Mass Spectrometry as an Approach for the Investigation of Stable and Transient Protein-Protein Interactions. <i>ACS Symposium Series</i> , 2011, , 341-367.	0.5	17
53	Mass spectrometry-based proteomics of oxidative stress: Identification of 4-hydroxy-2-nonenal (HNE) adducts of amino acids using lysozyme and bovine serum albumin as model proteins. <i>Electrophoresis</i> , 2016, 37, 2615-2623.	2.4	17
54	Structural Characterization and Disulfide Assignment of Spider Peptide Ph \pm 1 $\hat{2}$ by Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 827-841.	2.8	17

#	ARTICLE	IF	CITATIONS
55	Mass Spectrometry for Proteomics-Based Investigation. <i>Advances in Experimental Medicine and Biology</i> , 2014, 806, 1-32.	1.6	16
56	Mass Spectrometric Analysis of Post-translational Modifications (PTMs) and Protein-Protein Interactions (PPIs). <i>Advances in Experimental Medicine and Biology</i> , 2014, 806, 205-235.	1.6	16
57	Caffeine-Containing, Adaptogenic-Rich Drink Modulates the Effects of Caffeine on Mental Performance and Cognitive Parameters: A Double-Blinded, Placebo-Controlled, Randomized Trial. <i>Nutrients</i> , 2020, 12, 1922.	4.1	16
58	Using Breast Milk to Assess Breast Cancer Risk: The Role of Mass Spectrometry-Based Proteomics. <i>Advances in Experimental Medicine and Biology</i> , 2014, 806, 399-408.	1.6	16
59	A Pilot Exploratory Proteomics Investigation of Mental Fatigue and Mental Energy. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1140, 601-611.	1.6	14
60	Structural Evaluation and Analyses of Tumor Differentiation Factor. <i>Protein Journal</i> , 2013, 32, 512-518.	1.6	13
61	Thiostrepton, a Natural Compound That Triggers Heat Shock Response and Apoptosis in Human Cancer Cells: A Proteomics Investigation. <i>Advances in Experimental Medicine and Biology</i> , 2014, 806, 443-451.	1.6	13
62	Biomarkers in Major Depressive Disorder: The Role of Mass Spectrometry. <i>Advances in Experimental Medicine and Biology</i> , 2014, 806, 545-560.	1.6	13
63	Electrochemically Stimulated Insulin Release from a Modified Graphene-Functionalized Carbon Fiber Electrode. <i>Electroanalysis</i> , 2017, 29, 1543-1553.	2.9	11
64	Mass Spectrometry and Proteomics: Principle, Workflow, Challenges and Perspectives. <i>Modern Chemistry & Applications</i> , 2013, 01, .	0.2	10
65	Identification of tumor differentiation factor (TDF) in select CNS neurons. <i>Brain Structure and Function</i> , 2014, 219, 1333-1342.	2.3	10
66	Bottlenecks in Proteomics. <i>Advances in Experimental Medicine and Biology</i> , 2014, 806, 581-593.	1.6	9
67	Combinatorial Electrophoresis and Mass Spectrometry-Based Proteomics in Breast Milk for Breast Cancer Biomarker Discovery. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1140, 451-467.	1.6	9
68	2D SDS PAGE in Combination with Western Blotting and Mass Spectrometry Is a Robust Method for Protein Analysis with Many Applications. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1140, 563-574.	1.6	9
69	The possible roles of cell novel protein 1 (BCNP1) in cellular signalling pathways and in cancer. <i>Journal of Cellular and Molecular Medicine</i> , 2017, 21, 456-466.	3.6	8
70	Developing Well-Annotated Species-Specific Protein Databases Using Comparative Proteogenomics. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1140, 389-400.	1.6	8
71	Proteomic Analysis of the Lake Trout (<i>Salvelinus namaycush</i>) Liver Identifies Proteins from Evolutionarily Close and Distant Fish Relatives. <i>Proteomics</i> , 2019, 19, e1800429.	2.2	8
72	Preparation of a phosphotyrosine-protein standard for use in semiquantitative western blotting with enhanced chemiluminescence. <i>PLoS ONE</i> , 2020, 15, e0234645.	2.5	8

#	ARTICLE	IF	CITATIONS
73	Mass Spectrometric (MS) Analysis of Proteins and Peptides. <i>Current Protein and Peptide Science</i> , 2021, 22, 92-120.	1.4	8
74	Exosome mediated growth effect on the non-growing pre-B acute lymphoblastic leukemia cells at low starting cell density. <i>American Journal of Translational Research (discontinued)</i> , 2016, 8, 3614-3629.	0.0	8
75	Mass Spectrometry- and Computational Structural Biology-Based Investigation of Proteins and Peptides. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1140, 265-287.	1.6	7
76	Identification of dysregulation of atrial proteins in rats with chronic obstructive apnea using two-dimensional polyacrylamide gel electrophoresis and mass spectrometry. <i>Journal of Cellular and Molecular Medicine</i> , 2019, 23, 3016-3020.	3.6	6
77	Protein Biomarkers in Major Depressive Disorder: An Update. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1140, 585-600.	1.6	5
78	Trends in Analysis of Cortisol and Its Derivatives. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1140, 649-664.	1.6	5
79	Bottlenecks in Proteomics: An Update. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1140, 753-769.	1.6	5
80	Proteomic Analysis Identifies Dysregulated Proteins in Butanol-Tolerant Gram-Positive <i>Lactobacillus mucosae</i> BR071333. <i>ACS Omega</i> , 2021, 6, 4034-4043.	3.5	5
81	Mass Spectrometry for Proteomics-Based Investigation Using the Zebrafish Vertebrate Model System. <i>Advances in Experimental Medicine and Biology</i> , 2014, 806, 331-340.	1.6	5
82	Defective quorum sensing of acute lymphoblastic leukemic cells: evidence of collective behavior of leukemic populations as semi-autonomous aberrant ecosystems. <i>American Journal of Cancer Research</i> , 2016, 6, 1177-230.	1.4	5
83	A Proteomic Approach to Identify Zein Proteins upon Eco-Friendly Ultrasound-Based Extraction. <i>Biomolecules</i> , 2021, 11, 1838.	4.0	5
84	Mass Spectrometry for the Study of Autism and Neurodevelopmental Disorders. <i>Advances in Experimental Medicine and Biology</i> , 2014, 806, 525-544.	1.6	4
85	Autism spectrum disorder: An omics perspective. <i>Proteomics - Clinical Applications</i> , 2015, 9, 159-168.	1.6	4
86	Time-Dependent Analysis of <i>Paenarthrobacter nicotinovorans</i> pAO1 Nicotine-Related Proteome. <i>ACS Omega</i> , 2021, 6, 14242-14251.	3.5	4
87	Utility of Computational Structural Biology in Mass Spectrometry. <i>Advances in Experimental Medicine and Biology</i> , 2014, 806, 107-128.	1.6	4
88	Investigation of Protein-Protein Interactions by Blue Native-PAGE & Mass Spectrometry. <i>Modern Chemistry & Applications</i> , 2013, 01, .	0.2	3
89	Using Proteomics to Unravel the Mysterious Steps of the HBV-Life-Cycle. <i>Advances in Experimental Medicine and Biology</i> , 2014, 806, 453-481.	1.6	3
90	Mass Spectrometry for the Study of Autism and Neurodevelopmental Disorders. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1140, 477-499.	1.6	3

#	ARTICLE	IF	CITATIONS
91	Proteomics and Non-proteomics Approaches to Study Stable and Transient Protein-Protein Interactions. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1140, 121-142.	1.6	3
92	Detection of Biomedically Relevant Stilbenes from Wines by Mass Spectrometry. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1140, 665-684.	1.6	2
93	Mass Spectrometry Based Comparative Proteomics Using One Dimensional and Two Dimensional SDS-PAGE of Rat Atria Induced with Obstructive Sleep Apnea. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1140, 541-561.	1.6	2
94	Recent Applications of Mass Spectrometry at Clarkson University. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1140, 771-785.	1.6	2
95	Examination of a non-invasive biomarker for the diagnosis of prodromal Alzheimer's disease and Alzheimer's disease Dementia. <i>EBioMedicine</i> , 2020, 57, 102882.	6.1	2
96	Investigating a Novel Protein Using Mass Spectrometry: The Example of Tumor Differentiation Factor (TDF). <i>Advances in Experimental Medicine and Biology</i> , 2014, 806, 509-523.	1.6	2
97	Proteomic analysis of the lake trout (<i>Salvelinus namaycush</i>) heart and blood: The beginning of a comprehensive lake trout protein database. <i>Proteomics</i> , 2022, 22, e2100146.	2.2	2
98	Effect of purified fractions from cell culture supernate of high density pre-B acute lymphoblastic leukemia cells (ALL3) on the growth of ALL3 cells at low density. <i>Electrophoresis</i> , 2017, 38, 417-428.	2.4	1
99	Role of Mass Spectrometry in Investigating a Novel Protein: The Example of Tumor Differentiation Factor (TDF). <i>Advances in Experimental Medicine and Biology</i> , 2019, 1140, 417-433.	1.6	1
100	Exploration of Nicotine Metabolism in <i>Paenarthrobacter nicotinovorans</i> pAO1 by Microbial Proteomics. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1140, 515-529.	1.6	1
101	Rational Design of a Pregnancy Vaccine. <i>Obstetrics and Gynecology</i> , 2006, 107, 14S-15S.	2.4	0
102	Investigation of Antibody-Drug Conjugates by Mass Spectrometry. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1140, 251-263.	1.6	0
103	Proteomics and its applications in breast cancer. <i>American Journal of Cancer Research</i> , 2021, 11, 4006-4049.	1.4	0
104	Effect of MG-132 on myofibrillogenesis and the ubiquitination of GAPDH in quail myotubes. <i>Cytoskeleton</i> , 2021, 78, 375-390.	2.0	0
105	Investigation of the effects of overexpression of jumping translocation breakpoint (JTb) protein in MCF7 cells for potential use as a biomarker in breast cancer. <i>American Journal of Cancer Research</i> , 2022, 12, 1784-1823.	1.4	0