Costel C Darie

List of Publications by Year
in descending order

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	Proteomic analysis of the lake trout (Salvelinus namaycush) heart and blood: The beginning of a comprehensive lake trout protein database. Proteomics, 2022, 22, e2100146.	2.2	2
2	Applications of Tandem Mass Spectrometry (MS/MS) in Protein Analysis for Biomedical Research. Molecules, 2022, 27, 2411.	3.8	30
3	Investigation of the effects of overexpression of jumping translocation breakpoint (JTB) protein in MCF7 cells for potential use as a biomarker in breast cancer.. American Journal of Cancer Research, 2022, 12, 1784-1823.	1.4	0
4	Proteomic Analysis Identifies Dysregulated Proteins in Butanol-Tolerant Gram-Positive Lactobacillus mucosae BR0713â€“33. ACS Omega, 2021, 6, 4034-4043.	3.5	5
5	Mass Spectrometric (MS) Analysis of Proteins and Peptides. Current Protein and Peptide Science, 2021, 22, 92-120.	1.4	8
6	Time-Dependent Analysis of Paenarthrobacter nicotinovorans pAO1 Nicotine-Related Proteome. ACS Omega, 2021, 6, 14242-14251.	3.5	4
7	Force-Induced Near-Infrared Chromism of Mechanophore-Linked Polymers. Journal of the American Chemical Society, 2021, 143, 17337-17343.	13.7	36
8	Proteomics and its applications in breast cancer. American Journal of Cancer Research, 2021, 11, 4006-4049.	1.4	0
9	Effect of MGâ€132 on myofibrillogenesis and the ubiquitination of GAPDH in quail myotubes. Cytoskeleton, 2021, 78, 375-390.	2.0	0
10	A Proteomic Approach to Identify Zein Proteins upon Eco-Friendly Ultrasound-Based Extraction. Biomolecules, 2021, 11, 1838.	4.0	5
11	Examination of a non-invasive biomarker for the diagnosis of prodromal Alzheimer's disease and Alzheimer's disease Dementia. EBioMedicine, 2020, 57, 102882.	6.1	2
12	Preparation of a phosphotyrosine-protein standard for use in semiquantitative western blotting with enhanced chemiluminescence. PLoS ONE, 2020, 15, e0234645.	2.5	8
13	A Critical Review of Bottom-Up Proteomics: The Good, the Bad, and the Future of This Field. Proteomes, 2020, 8, 14.	3.5	169
14	Caffeine-Containing, Adaptogenic-Rich Drink Modulates the Effects of Caffeine on Mental Performance and Cognitive Parameters: A Double-Blinded, Placebo-Controlled, Randomized Trial. Nutrients, 2020, 12, 1922.	4.1	16
15	Detection of Biomedically Relevant Stilbenes from Wines by Mass Spectrometry. Advances in Experimental Medicine and Biology, 2019, 1140, 665-684.	1.6	2
16	Mass Spectrometry for Proteomics-Based Investigation. Advances in Experimental Medicine and Biology, 2019, 1140, 1-26.	1.6	18
17	Identification of Posttranslational Modifications (PTMs) of Proteins byÂMass Spectrometry. Advances in Experimental Medicine and Biology, 2019, 1140, 199-224.	1.6	26
18	Investigation of Antibody-Drug Conjugates by Mass Spectrometry. Advances in Experimental Medicine and Biology, 2019, 1140, 251-263.	1.6	0

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19	Mass Spectrometry- and Computational Structural Biology-Based Investigation of Proteins and Peptides. Advances in Experimental Medicine and Biology, 2019, 1140, 265-287.	1.6	7
20	Developing Well-Annotated Species-Specific Protein Databases Using Comparative Proteogenomics. Advances in Experimental Medicine and Biology, 2019, 1140, 389-400.	1.6	8
21	Role of Mass Spectrometry in Investigating a Novel Protein: The Example of Tumor Differentiation Factor (TDF). Advances in Experimental Medicine and Biology, 2019, 1140, 417-433.	1.6	1
22	Combinatorial Electrophoresis and Mass Spectrometry-Based Proteomics in Breast Milk for Breast Cancer Biomarker Discovery. Advances in Experimental Medicine and Biology, 2019, 1140, 451-467.	1.6	9
23	Mass Spectrometry for theÂStudy of Autism and Neurodevelopmental Disorders. Advances in Experimental Medicine and Biology, 2019, 1140, 477-499.	1.6	3
24	Exploration of Nicotine Metabolism in Paenarthrobacter nicotinovorans pAO1 by Microbial Proteomics. Advances in Experimental Medicine and Biology, 2019, 1140, 515-529.	1.6	1
25	Mass Spectrometry Based Comparative Proteomics Using One Dimensional and Two Dimensional SDS-PAGE of Rat Atria Induced with Obstructive Sleep Apnea. Advances in Experimental Medicine and Biology, 2019, 1140, 541-561.	1.6	2
26	2D SDS PAGE in Combination with Western Blotting and Mass Spectrometry Is a Robust Method for Protein Analysis with Many Applications. Advances in Experimental Medicine and Biology, 2019, 1140, 563-574.	1.6	9
27	Protein Biomarkers in Major Depressive Disorder: An Update. Advances in Experimental Medicine and Biology, 2019, 1140, 585-600.	1.6	5
28	A Pilot Exploratory Proteomics Investigation of Mental Fatigue and Mental Energy. Advances in Experimental Medicine and Biology, 2019, 1140, 601-611.	1.6	14
29	Trends in Analysis of Cortisol and Its Derivatives. Advances in Experimental Medicine and Biology, 2019, 1140, 649-664.	1.6	5
30	Bottlenecks in Proteomics: An Update. Advances in Experimental Medicine and Biology, 2019, 1140, 753-769.	1.6	5
31	Recent Applications of Mass Spectrometry at Clarkson University. Advances in Experimental Medicine and Biology, 2019, 1140, 771-785.	1.6	2
32	Proteomics and Non-proteomics Approaches to Study Stable and Transient Protein-Protein Interactions. Advances in Experimental Medicine and Biology, 2019, 1140, 121-142.	1.6	3
33	Proteomic Analysis of the Lake Trout (Salvelinus namaycush) Liver Identifies Proteins from Evolutionarily Close and â€Distant Fish Relatives. Proteomics, 2019, 19, e1800429.	2.2	8
34	Identification of dysregulation of atrial proteins in rats with chronic obstructive apnea using twoâ€dimensional polyacrylamide gel electrophoresis and mass spectrometry. Journal of Cellular and Molecular Medicine, 2019, 23, 3016-3020.	3.6	6
35	Structural Characterization and Disulfide Assignment of Spider Peptide PhÎ±1Î² by Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2018, 29, 827-841.	2.8	17
36	Proteomics analysis of human breast milk to assess breast cancer risk. Electrophoresis, 2018, 39, 653-665.	2.4	27

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37	Proteomics based analysis of the nicotine catabolism in Paenarthrobacter nicotinovorans pAO1. Scientific Reports, 2018, 8, 16239.	3.3	19
38	Comparative twoâ€dimensional polyacrylamide gel electrophoresis (2Dâ€PAGE) of human milk to identify dysregulated proteins in breast cancer. Electrophoresis, 2018, 39, 1723-1734.	2.4	22
39	Electrochemically Stimulated Insulin Release from a Modified Grapheneâ€functionalized Carbon Fiber Electrode. Electroanalysis, 2017, 29, 1543-1553.	2.9	11
40	Atrial electrophysiological and molecular remodelling induced by obstructive sleep apnoea. Journal of Cellular and Molecular Medicine, 2017, 21, 2223-2235.	3.6	28
41	Glucoseâ€Triggered Insulin Release from Fe³⁺â€Crossâ€linked Alginate Hydrogel: Experimental Study and Theoretical Modeling. ChemPhysChem, 2017, 18, 1541-1551.	2.1	22
42	The possible roles of Bâ€cell novel proteinâ€1 (<scp>BCNP</scp>1) in cellular signalling pathways and in cancer. Journal of Cellular and Molecular Medicine, 2017, 21, 456-466.	3.6	8
43	Effect of purified fractions from cell culture supernate of highâ€density preâ€B acute lymphoblastic leukemia cells (ALL3) on the growth of ALL3 cells at low density. Electrophoresis, 2017, 38, 417-428.	2.4	1
44	Mass spectrometryâ€based proteomics of oxidative stress: Identification of 4â€hydroxyâ€2â€nonenal (HNE) adducts of amino acids using lysozyme and bovine serum albumin as model proteins. Electrophoresis, 2016, 37, 2615-2623.	2.4	17
45	Defective quorum sensing of acute lymphoblastic leukemic cells: evidence of collective behavior of leukemic populations as semi-autonomous aberrant ecosystems. American Journal of Cancer Research, 2016, 6, 1177-230.	1.4	5
46	Exosome mediated growth effect on the non-growing pre-B acute lymphoblastic leukemia cells at low starting cell density. American Journal of Translational Research (discontinued), 2016, 8, 3614-3629.	0.0	8
47	Comparative twoâ€dimensional polyacrylamide gel electrophoresis of the salivary proteome of children with autism spectrum disorder. Journal of Cellular and Molecular Medicine, 2015, 19, 2664-2678.	3.6	39
48	Salivary proteomics and biomarkers in neurology and psychiatry. Proteomics - Clinical Applications, 2015, 9, 899-906.	1.6	32
49	A Pilot Proteomic Analysis of Salivary Biomarkers in Autism Spectrum Disorder. Autism Research, 2015, 8, 338-350.	3.8	73
50	A bioelectronic system for insulin release triggered by ketone body mimicking diabetic ketoacidosis in vitro. Chemical Communications, 2015, 51, 7618-7621.	4.1	21
51	Autism spectrum disorder: An omics perspective. Proteomics - Clinical Applications, 2015, 9, 159-168.	1.6	4
52	The potential of biomarkers in psychiatry: focus on proteomics. Journal of Neural Transmission, 2015, 122, 9-18.	2.8	27
53	Identification of tumor differentiation factor (TDF) in select CNS neurons. Brain Structure and Function, 2014, 219, 1333-1342.	2.3	10
54	A pilot proteomic study of protein markers in autism spectrum disorder. Electrophoresis, 2014, 35, 2046-2054.	2.4	34

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55	Mass Spectrometry for Proteomics-Based Investigation. Advances in Experimental Medicine and Biology, 2014, 806, 1-32.	1.6	16
56	Mass Spectrometric Analysis of Post-translational Modifications (PTMs) and Proteinâ€"Protein Interactions (PPIs). Advances in Experimental Medicine and Biology, 2014, 806, 205-235.	1.6	16
57	Bottlenecks in Proteomics. Advances in Experimental Medicine and Biology, 2014, 806, 581-593.	1.6	9
58	Cancer Secretomes and Their Place in Supplementing Other Hallmarks of Cancer. Advances in Experimental Medicine and Biology, 2014, 806, 409-442.	1.6	38
59	Thiostrepton, a Natural Compound That Triggers Heat Shock Response and Apoptosis in Human Cancer Cells: A Proteomics Investigation. Advances in Experimental Medicine and Biology, 2014, 806, 443-451.	1.6	13
60	Biomarkers in Major Depressive Disorder: The Role of Mass Spectrometry. Advances in Experimental Medicine and Biology, 2014, 806, 545-560.	1.6	13
61	Using Proteomics to Unravel the Mysterious Steps of the HBV-Life-Cycle. Advances in Experimental Medicine and Biology, 2014, 806, 453-481.	1.6	3
62	Mass Spectrometry for the Study of Autism and Neurodevelopmental Disorders. Advances in Experimental Medicine and Biology, 2014, 806, 525-544.	1.6	4
63	Proteinâ€"protein interactions: switch from classical methods to proteomics and bioinformatics-based approaches. Cellular and Molecular Life Sciences, 2014, 71, 205-228.	5.4	112
64	Mass Spectrometry for Proteomics-Based Investigation Using the Zebrafish Vertebrate Model System. Advances in Experimental Medicine and Biology, 2014, 806, 331-340.	1.6	5
65	Using Breast Milk to Assess Breast Cancer Risk: The Role of Mass Spectrometry-Based Proteomics. Advances in Experimental Medicine and Biology, 2014, 806, 399-408.	1.6	16
66	Investigating a Novel Protein Using Mass Spectrometry: The Example of Tumor Differentiation Factor (TDF). Advances in Experimental Medicine and Biology, 2014, 806, 509-523.	1.6	2
67	Utility of Computational Structural Biology in Mass Spectrometry. Advances in Experimental Medicine and Biology, 2014, 806, 107-128.	1.6	4
68	Applications of Mass Spectrometry in Proteomics. Australian Journal of Chemistry, 2013, 66, 721.	0.9	30
69	Identification of Post-Translational Modifications by Mass Spectrometry. Australian Journal of Chemistry, 2013, 66, 734.	0.9	29
70	Characterization of tumor differentiation factor (TDF) and its receptor (TDF-R). Cellular and Molecular Life Sciences, 2013, 70, 2835-2848.	5.4	26
71	Mass spectrometry for the detection of potential psychiatric biomarkers. Journal of Molecular Psychiatry, 2013, 1, 8.	2.0	30
72	Mass spectrometry as a tool for studying autism spectrum disorder. Journal of Molecular Psychiatry, 2013, 1, 6.	2.0	31

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73	Structural Evaluation and Analyses of Tumor Differentiation Factor. Protein Journal, 2013, 32, 512-518.	1.6	13
74	Investigation of stable and transient proteinâ€“protein interactions: Past, present, and future. Proteomics, 2013, 13, 538-557.	2.2	134
75	Mass spectrometry investigation of glycosylation on the NXS/T sites in recombinant glycoproteins. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 1474-1483.	2.3	30
76	Mass Spectrometry and its Applications in Life Sciences. Australian Journal of Chemistry, 2013, 66, 719.	0.9	23
77	Characterization of the antiâ€HBV activity of HLP_{1â€“23}, a human lactoferrinâ€derived peptide. Journal of Medical Virology, 2013, 85, 780-788.	5.0	28
78	Automated Mass Spectrometryâ€“Based Functional Assay for the Routine Analysis of the Secretome. Journal of the Association for Laboratory Automation, 2013, 18, 19-29.	2.8	51
79	Investigation of Protein-Protein Interactions by Blue Native-PAGE & Mass Spectrometry. Modern Chemistry & Applications, 2013, 01, .	0.2	3
80	Mass Spectrometry and Proteomics: Principle, Workflow, Challenges and Perspectives. Modern Chemistry & Applications, 2013, 01, .	0.2	10
81	Comparative Proteomics Reveals Novel Components at the Plasma Membrane of Differentiated HepaRG Cells and Different Distribution in Hepatocyte- and Biliary-Like Cells. PLoS ONE, 2013, 8, e71859.	2.5	20
82	Automatic Determination of Disulfide Bridges in Proteins. Journal of the Association for Laboratory Automation, 2012, 17, 408-416.	2.8	36
83	Structural investigation of tumor differentiation factor. Biotechnology and Applied Biochemistry, 2012, 59, 445-450.	3.1	31
84	Identification of consistent alkylation of cysteine-less peptides in a proteomics experiment. Biochemical and Biophysical Research Communications, 2012, 419, 305-308.	2.1	51
85	Disulfide proteomics for identification of extracellular or secreted proteins. Electrophoresis, 2012, 33, 2527-2536.	2.4	52
86	Proteomic analysis of plasma membranes isolated from undifferentiated and differentiated HepaRG cells. Proteome Science, 2012, 10, 47.	1.7	71
87	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
88	Identification of a potential tumor differentiation factor receptor candidate in prostate cancer cells. FEBS Journal, 2012, 279, 2579-2594.	4.7	44
89	Potential biomarkers in psychiatry: focus on the cholesterol system. Journal of Cellular and Molecular Medicine, 2012, 16, 1184-1195.	3.6	95
90	Mass Spectrometry for Proteomics-Based Investigation of Oxidative Stress and Heat Shock Proteins. ACS Symposium Series, 2011, , 369-411.	0.5	22

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91	Blue Native PAGE and Mass Spectrometry as an Approach for the Investigation of Stable and Transient Protein-Protein Interactions. ACS Symposium Series, 2011, , 341-367.	0.5	17
92	Identifying transient proteinâ€“protein interactions in EphB2 signaling by blue native PAGE and mass spectrometry. Proteomics, 2011, 11, 4514-4528.	2.2	85
93	CLOCK Genes and Circadian Rhythmicity in Alzheimer Disease. Journal of Aging Research, 2011, 2011, 1-4.	0.9	35
94	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
95	Purified trout egg vitelline envelope proteins VEÎ² and VEÎ³ polymerize into homomeric fibrils from dimers in vitro. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2008, 1784, 385-392.	2.3	44
96	Blue Native PAGE and Mass Spectrometry Analysis of Ephrin Stimulation-Dependent Protein-Protein Interactions in NG108-EphB2 Cells. NATO Science for Peace and Security Series A: Chemistry and Biology, 2008, , 3-22.	0.5	23
97	Structure, Processing, and Polymerization of Rainbow Trout Egg Vitelline Envelope Proteins. NATO Science for Peace and Security Series A: Chemistry and Biology, 2008, , 23-36.	0.5	18
98	Stable Isotopic Labeling by Amino Acids in Cultured Primary Neurons. Molecular and Cellular Proteomics, 2008, 7, 1067-1076.	3.8	120
99	Studies of the Ndh complex and photosystem II from mesophyll and bundle sheath chloroplasts of the C4-type plant Zea mays. Journal of Plant Physiology, 2006, 163, 800-808.	3.5	36
100	Rational Design of a Pregnancy Vaccine. Obstetrics and Gynecology, 2006, 107, 14S-15S.	2.4	0
101	ZONA PELLUCIDA DOMAIN PROTEINS. Annual Review of Biochemistry, 2005, 74, 83-114.	11.1	263
102	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
103	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
104	Recent aspects of mammalian fertilization research. Molecular and Cellular Endocrinology, 2005, 234, 95-103.	3.2	68
105	Structural Characterization of Fish Egg Vitelline Envelope Proteins by Mass Spectrometryâ€. Biochemistry, 2004, 43, 7459-7478.	2.5	90