

# Giorgio Arrigoni

## List of Publications by Year in descending order

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117  
papers

3,834  
citations

109321

35  
h-index

155660

55  
g-index

120  
all docs

120  
docs citations

120  
times ranked

6426  
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein kinase CK2 phosphorylates and upregulates Akt/PKB. <i>Cell Death and Differentiation</i> , 2005, 12, 668-677.	11.2	291
2	NETosis Delays Diabetic Wound Healing in Mice and Humans. <i>Diabetes</i> , 2016, 65, 1061-1071.	0.6	233
3	Purified F-ATP synthase forms a Ca <sup>2+</sup> -dependent high-conductance channel matching the mitochondrial permeability transition pore. <i>Nature Communications</i> , 2019, 10, 4341.	12.8	139
4	High Abundance Proteins Depletion vs Low Abundance Proteins Enrichment: Comparison of Methods to Reduce the Plasma Proteome Complexity. <i>PLoS ONE</i> , 2011, 6, e19603.	2.5	137
5	LRRK2 phosphorylates pre-synaptic N-ethylmaleimide sensitive fusion (NSF) protein enhancing its ATPase activity and SNARE complex disassembling rate. <i>Molecular Neurodegeneration</i> , 2016, 11, 1.	10.8	128
6	Molecular targets of antimicrobial photodynamic therapy identified by a proteomic approach. <i>Journal of Proteomics</i> , 2012, 77, 329-343.	2.4	88
7	C1q-Mediated Complement Activation and C3 Opsonization Trigger Recognition of Stealth Poly(2-methyl-2-oxazoline)-Coated Silica Nanoparticles by Human Phagocytes. <i>ACS Nano</i> , 2018, 12, 5834-5847.	14.6	86
8	The first non Clostridial botulinum-like toxin cleaves VAMP within the juxtamembrane domain. <i>Scientific Reports</i> , 2016, 6, 30257.	3.3	84
9	Electron Transfer through 3D Monolayers on Au <sub>25</sub> Clusters. <i>ACS Nano</i> , 2014, 8, 2788-2795.	14.6	80
10	Lamin A Ser404 Is a Nuclear Target of Akt Phosphorylation in C2C12 Cells. <i>Journal of Proteome Research</i> , 2008, 7, 4727-4735.	3.7	79
11	140 Mouse Brain Proteins Identified by Ca <sup>2+</sup> -Calmodulin Affinity Chromatography and Tandem Mass Spectrometry. <i>Journal of Proteome Research</i> , 2006, 5, 669-687.	3.7	76
12	Identification of New Peptides from Fermented Milk Showing Antioxidant Properties: Mechanism of Action. <i>Antioxidants</i> , 2020, 9, 117.	5.1	66
13	Mitochondrial Alterations Induced by the p13II Protein of Human T-cell Leukemia Virus Type 1. <i>Journal of Biological Chemistry</i> , 2002, 277, 34424-34433.	3.4	65
14	Biochemical and quantitative proteomics investigations in <i>Arabidopsis ggt1</i> mutant leaves reveal a role for the gamma-glutamyl cycle in plant's adaptation to environment. <i>Proteomics</i> , 2013, 13, 2031-2045.	2.2	64
15	Chemical derivatization of phosphoserine and phosphothreonine containing peptides to increase sensitivity for MALDI-based analysis and for selectivity of MS/MS analysis. <i>Proteomics</i> , 2006, 6, 757-766.	2.2	61
16	Analysis of the interaction between piD261/Bud32, an evolutionarily conserved protein kinase of <i>Saccharomyces cerevisiae</i> , and the Grx4 glutaredoxin. <i>Biochemical Journal</i> , 2004, 377, 395-405.	3.7	60
17	Mass spectrometry detection of egg proteins in red wines treated with egg white. <i>Food Control</i> , 2012, 23, 87-94.	5.5	57
18	High-Conductance Channel Formation in Yeast Mitochondria is Mediated by F-ATP Synthase e and g Subunits. <i>Cellular Physiology and Biochemistry</i> , 2018, 50, 1840-1855.	1.6	57

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19	ST3GAL1 is a target of the SOX2-GLI1 transcriptional complex and promotes melanoma metastasis through AXL. <i>Nature Communications</i> , 2020, 11, 5865.	12.8	54
20	Parkinson's Disease-Associated LRRK2 Interferes with Astrocyte-Mediated Alpha-Synuclein Clearance. <i>Molecular Neurobiology</i> , 2021, 58, 3119-3140.	4.0	54
21	Differential protein-protein interactions of LRRK1 and LRRK2 indicate roles in distinct cellular signaling pathways. <i>Journal of Neurochemistry</i> , 2014, 131, 239-250.	3.9	49
22	Re-evaluation of protein kinase CK2 pleiotropy: new insights provided by a phosphoproteomics analysis of CK2 knockout cells. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 2011-2026.	5.4	49
23	PDAC-derived exosomes enrich the microenvironment in MDSCs in a SMAD4-dependent manner through a new calcium related axis. <i>Oncotarget</i> , 2017, 8, 84928-84944.	1.8	49
24	Analysis of commercial wines by LC-MS/MS reveals the presence of residual milk and egg white allergens. <i>Food Control</i> , 2012, 28, 321-326.	5.5	47
25	PAK6 Phosphorylates 14-3-3 to Regulate Steady State Phosphorylation of LRRK2. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 417.	2.9	46
26	In Vivo Identification of Photosystem II Light Harvesting Complexes Interacting with PHOTOSYSTEM II SUBUNIT S. <i>Plant Physiology</i> , 2015, 168, 1747-1761.	4.8	43
27	Proteomic Analysis of MeJa-Induced Defense Responses in Rice against Wounding. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2525.	4.1	42
28	Proteome readjustments in the apoplastic space of Arabidopsis thaliana ggt1 mutant leaves exposed to UV-B radiation. <i>Frontiers in Plant Science</i> , 2015, 6, 128.	3.6	41
29	Protein Profiling of Arabidopsis Roots Treated With Humic Substances: Insights Into the Metabolic and Interactome Networks. <i>Frontiers in Plant Science</i> , 2018, 9, 1812.	3.6	41
30	Fermented Soy-Derived Bioactive Peptides Selected by a Molecular Docking Approach Show Antioxidant Properties Involving the Keap1/Nrf2 Pathway. <i>Antioxidants</i> , 2020, 9, 1306.	5.1	41
31	Structure-function analysis of yeast piD261/Bud32, an atypical protein kinase essential for normal cell life. <i>Biochemical Journal</i> , 2002, 364, 457-463.	3.7	40
32	Modulation of Protein Kinase CK2 Activity by Fragments of CFTR Encompassing F508 May Reflect Functional Links with Cystic Fibrosis Pathogenesis. <i>Biochemistry</i> , 2008, 47, 7925-7936.	2.5	39
33	Proteomic analysis of a compatible interaction between sugarcane and <i>Sporisorium scitamineum</i> . <i>Proteomics</i> , 2016, 16, 1111-1122.	2.2	39
34	Understanding and Controlling Short- and Long-Range Electron/Charge-Transfer Processes in Electron Donor-Acceptor Conjugates. <i>Journal of the American Chemical Society</i> , 2020, 142, 7898-7911.	13.7	39
35	Generation and quantitative proteomics analysis of CK2 <sup>±</sup> cells. <i>Scientific Reports</i> , 2017, 7, 42409.	3.3	38
36	Quantitative analysis of a phosphoproteome readily altered by the protein kinase CK2 inhibitor quinalizarin in HEK-293T cells. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 609-623.	2.3	37

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37	HMGA1 regulates the Plasminogen activation system in the secretome of breast cancer cells. <i>Scientific Reports</i> , 2017, 7, 11768.	3.3	36
38	Exploring the CK2 Paradox: Restless, Dangerous, Dispensable. <i>Pharmaceuticals</i> , 2017, 10, 11.	3.8	36
39	Cell surface nucleolin interacts with and internalizes <i>Bothrops asper</i> Lys49 phospholipase A2 and mediates its toxic activity. <i>Scientific Reports</i> , 2018, 8, 10619.	3.3	36
40	The Unique Cysteine of F-ATP Synthase OSCP Subunit Participates in Modulation of the Permeability Transition Pore. <i>Cell Reports</i> , 2020, 32, 108095.	6.4	35
41	Mass Spectrometry Analysis of a Protein Kinase CK2 <sup>Δ2</sup> Subunit Interactome Isolated from Mouse Brain by Affinity Chromatography. <i>Journal of Proteome Research</i> , 2008, 7, 990-1000.	3.7	33
42	Proteomic Analysis of Clonal Interstitial Aortic Valve Cells Acquiring a Pro-calcific Profile. <i>Journal of Proteome Research</i> , 2010, 9, 5913-5921.	3.7	33
43	Quantitative Proteomics of Maize Roots Treated with a Protein Hydrolysate: A Comparative Study with Transcriptomics Highlights the Molecular Mechanisms Responsive to Biostimulants. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 7541-7553.	5.2	33
44	Investigation on PLK2 and PLK3 substrate recognition. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 1366-1373.	2.3	32
45	Detection of Phospho-Sites Generated by Protein Kinase CK2 in CFTR: Mechanistic Aspects of Thr1471 Phosphorylation. <i>PLoS ONE</i> , 2013, 8, e74232.	2.5	32
46	Phosphorylation of Calmodulin Fragments by Protein Kinase CK2. Mechanistic Aspects and Structural Consequences. <i>Biochemistry</i> , 2004, 43, 12788-12798.	2.5	31
47	Analysis of a sub-proteome which co-purifies with and is phosphorylated by the Golgi casein kinase. <i>Cellular and Molecular Life Sciences</i> , 2006, 63, 378-389.	5.4	31
48	Myeloid calcifying cells promote atherosclerotic calcification via paracrine activity and allograft inflammatory factor-1 overexpression. <i>Basic Research in Cardiology</i> , 2013, 108, 368.	5.9	28
49	The molecular signature of impaired diabetic wound healing identifies serpinB3 as a healing biomarker. <i>Diabetologia</i> , 2014, 57, 1947-1956.	6.3	28
50	Lumican Is Overexpressed in Lung Adenocarcinoma Pleural Effusions. <i>PLoS ONE</i> , 2015, 10, e0126458.	2.5	28
51	The pleiotropic protein kinase CK2 phosphorylates HTLV-1 Tax protein in vitro, targeting its PDZ-binding motif. <i>Virus Genes</i> , 2010, 41, 149-157.	1.6	26
52	Altered Chaperone and Protein Turnover Regulators Expression in Cultured Skin Fibroblasts from Type 1 Diabetes Mellitus with Nephropathy. <i>Journal of Proteome Research</i> , 2007, 6, 976-986.	3.7	25
53	Golgi apparatus casein kinase phosphorylates bioactive Ser <sup>66</sup> of bone morphogenetic protein 15 and growth and differentiation factor 9. <i>FEBS Letters</i> , 2010, 584, 801-805.	2.8	24
54	Proteome Analysis of Cultured Fibroblasts from Type 1 Diabetic Patients and Normal Subjects. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2006, 91, 3507-3514.	3.6	23

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55	Quantitative analysis of the naringenin-inducible proteome in <i>Rhizobium leguminosarum</i> by isobaric tagging and mass spectrometry. <i>Proteomics</i> , 2013, 13, 1961-1972.	2.2	23
56	Circulating myeloid calcifying cells have antiangiogenic activity via thrombospondin-1 overexpression. <i>FASEB Journal</i> , 2013, 27, 4355-4365.	0.5	23
57	Glycolytic enzyme expression and pyruvate kinase activity in cultured fibroblasts from type 1 diabetic patients with and without nephropathy. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2008, 1782, 627-633.	3.8	22
58	The landscape of BRAF transcript and protein variants in human cancer. <i>Molecular Cancer</i> , 2017, 16, 85.	19.2	22
59	Trafficking of the glutamate transporter is impaired in LRRK2-related Parkinson's disease. <i>Acta Neuropathologica</i> , 2022, 144, 81-106.	7.7	22
60	A proteomic approach for the identification of biomarkers in endometrial cancer uterine aspirate. <i>Oncotarget</i> , 2017, 8, 109536-109545.	1.8	19
61	Oxidative metabolism of dopamine: A colour reaction from human midbrain analysed by mass spectrometry. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 1687-1693.	2.3	18
62	Pros and cons of peptide isoelectric focusing in shotgun proteomics. <i>Journal of Chromatography A</i> , 2013, 1293, 1-9.	3.7	18
63	Influence of selenium on the emergence of neuro tubule defects in a neuron-like cell line and its implications for amyotrophic lateral sclerosis. <i>NeuroToxicology</i> , 2019, 75, 209-220.	3.0	17
64	Protein profile of commercial soybean milks analyzed by label-free quantitative proteomics. <i>Food Chemistry</i> , 2021, 352, 129299.	8.2	17
65	MassUntangler: A novel alignment tool for label-free liquid chromatography-mass spectrometry proteomic data. <i>Journal of Chromatography A</i> , 2011, 1218, 8859-8868.	3.7	16
66	L-Arginine prevents inflammatory and pro-calcific differentiation of interstitial aortic valve cells. <i>Atherosclerosis</i> , 2020, 298, 27-35.	0.8	16
67	Effect of Inulin on Proteome Changes Induced by Pathogenic Lipopolysaccharide in Human Colon. <i>PLoS ONE</i> , 2017, 12, e0169481.	2.5	15
68	Abnormal cytoskeletal protein expression in cultured skin fibroblasts from type 1 diabetes mellitus patients with nephropathy: A proteomic approach. <i>Proteomics - Clinical Applications</i> , 2008, 2, 492-503.	1.6	14
69	SMAD4 loss enables EGF, TGF $\beta$ 1 and S100A8/A9 induced activation of critical pathways to invasion in human pancreatic adenocarcinoma cells. <i>Oncotarget</i> , 2016, 7, 69927-69944.	1.8	14
70	Phosphoproteins Involved in the Inhibition of Apoptosis and in Cell Survival in the Leiomyoma. <i>Journal of Clinical Medicine</i> , 2019, 8, 691.	2.4	14
71	A proteomics analysis of CK2 <sup>(<math>\alpha^{\prime}/\alpha^{\prime\prime}</math>)</sup> C2C12 cells provides novel insights into the biological functions of the non-catalytic $\beta$ subunit. <i>FEBS Journal</i> , 2019, 286, 1561-1575.	4.7	14
72	Proteomics for the detection of indirect markers of steroids treatment in bovine muscle. <i>Proteomics</i> , 2015, 15, 2332-2341.	2.2	13

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73	Two-dimensional gel electrophoresis analysis of the leiomyoma interstitial fluid reveals altered protein expression with a possible involvement in pathogenesis. <i>Oncology Reports</i> , 2015, 33, 2219-2226.	2.6	13
74	Protein kinase CK2 potentiates translation efficiency by phosphorylating eIF3j at Ser127. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 1693-1701.	4.1	13
75	Proteomics perturbations promoted by the protein kinase CK2 inhibitor quinalizarin. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 1676-1686.	2.3	13
76	A Proteomic Approach for the Identification of Up-Regulated Proteins Involved in the Metabolic Process of the Leiomyoma. <i>International Journal of Molecular Sciences</i> , 2016, 17, 540.	4.1	13
77	Two Dimensional-Difference in Gel Electrophoresis (2D-DIGE) Proteomic Approach for the Identification of Biomarkers in Endometrial Cancer Serum. <i>Cancers</i> , 2021, 13, 3639.	3.7	13
78	Mitochondrial depletion of glutaredoxin 2 induces metabolic dysfunction-associated fatty liver disease in mice. <i>Redox Biology</i> , 2022, 51, 102277.	9.0	13
79	[NiFe]-hydrogenase is essential for cyanobacterium <i>Synechocystis</i> sp. PCC 6803 aerobic growth in the dark. <i>Scientific Reports</i> , 2015, 5, 12424.	3.3	12
80	Quantification of Membrane Proteins Using Nonspecific Protease Digestions. <i>Journal of Proteome Research</i> , 2009, 8, 5666-5673.	3.7	11
81	High confidence and sensitivity four-dimensional fractionation for human plasma proteome analysis. <i>Amino Acids</i> , 2012, 43, 2199-2202.	2.7	11
82	Calcium-Dependent Regulation of Genes for Plant Nodulation in <i>Rhizobium leguminosarum</i> Detected by iTRAQ Quantitative Proteomic Analysis. <i>Journal of Proteome Research</i> , 2013, 12, 5323-5330.	3.7	11
83	Abnormal expression of leiomyoma cytoskeletal proteins involved in cell migration. <i>Oncology Reports</i> , 2016, 35, 3094-3100.	2.6	11
84	InÂvitro secretomic analysis identifies putative pathogenicity-related proteins of <i>Sporisorium scitamineum</i> – The sugarcane smut fungus. <i>Fungal Biology</i> , 2017, 121, 199-211.	2.5	11
85	MALDI-TOF peptidomic analysis of serum and post-prostatic massage urine specimens to identify prostate cancer biomarkers. <i>Clinical Proteomics</i> , 2018, 15, 23.	2.1	11
86	Comparison of MS/MS Methods for Protein Identification from 2D-PAGE. <i>Journal of Proteome Research</i> , 2006, 5, 2294-2300.	3.7	9
87	The lysine-specific demethylase 1 is a novel substrate of protein kinase CK2. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 722-729.	2.3	9
88	Identification of proteins with different abundance associated with cell migration and proliferation in leiomyoma interstitial fluid by proteomics. <i>Oncology Letters</i> , 2017, 13, 3912-3920.	1.8	9
89	The Prion Protein Regulates Synaptic Transmission by Controlling the Expression of Proteins Key to Synaptic Vesicle Recycling and Exocytosis. <i>Molecular Neurobiology</i> , 2019, 56, 3420-3436.	4.0	9
90	A proteomic and biochemical investigation on the effects of sulfadiazine in <i>Arabidopsis thaliana</i> . <i>Ecotoxicology and Environmental Safety</i> , 2019, 178, 146-158.	6.0	9

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91	Application of Circular Dichroism and Fluorescence Spectroscopies To Assess Photostability of Water-Soluble Porcine Lens Proteins. <i>ACS Omega</i> , 2020, 5, 4293-4301.	3.5	9
92	Identification of the PLK2-Dependent Phosphopeptidome by Quantitative Proteomics. <i>PLoS ONE</i> , 2014, 9, e111018.	2.5	9
93	OFFGEL fractionation of peptides: Where really is your sample?. <i>Journal of Chromatography A</i> , 2014, 1355, 278-283.	3.7	8
94	Identification of potential protein markers of noble rot infected grapes. <i>Food Chemistry</i> , 2015, 179, 170-174.	8.2	8
95	Protein kinase CK2 modulates HSP1 function through phosphorylation of the UIM2 domain. <i>Human Molecular Genetics</i> , 2017, 26, ddw420.	2.9	8
96	The Effects of Rosiglitazone and High Glucose on Protein Expression in Endothelial Cells. <i>Journal of Proteome Research</i> , 2010, 9, 578-584.	3.7	7
97	Proteomic Analysis of Interstitial Aortic Valve Cells Acquiring a Pro-calcific Profile. <i>Methods in Molecular Biology</i> , 2013, 1005, 95-107.	0.9	7
98	Proteome Analysis of Urticating Setae From <i>Thaumetopoea pityocampa</i> (Lepidoptera: Notodontidae). <i>Journal of Medical Entomology</i> , 2017, 54, 1560-1566.	1.8	7
99	Efficient protein extraction for shotgun proteomics from hydrated and desiccated leaves of resurrection <i>Ramonda serbica</i> plants. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 8299-8312.	3.7	7
100	Gel-Based Proteomic Identification of Suprabasin as a Potential New Candidate Biomarker in Endometrial Cancer. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2076.	4.1	7
101	Desiccation Tolerance in <i>Ramonda serbica</i> Panc.: An Integrative Transcriptomic, Proteomic, Metabolite and Photosynthetic Study. <i>Plants</i> , 2022, 11, 1199.	3.5	6
102	Perfluorinated alkyl substances affect the growth, physiology and root proteome of hydroponically grown maize plants. <i>Journal of Hazardous Materials</i> , 2022, 438, 129512.	12.4	6
103	Caldesmon over-expression in type 1 diabetic nephropathy. <i>Journal of Diabetes and Its Complications</i> , 2011, 25, 114-121.	2.3	5
104	Sample loading influences studies comparing isoelectric focusing vs. strong cation exchange peptide fractionation. <i>Journal of Chromatography A</i> , 2013, 1307, 207-208.	3.7	5
105	Confirmation of Protein Biomarkers of Corticosteroids Treatment in Veal Calves Sampled under Field Conditions. <i>Journal of Proteome Research</i> , 2014, 13, 1794-1799.	3.7	4
106	Development of Reagents for Differential Protein Quantitation by Subtractive Parent (Precursor) Ion Scanning. <i>Journal of Proteome Research</i> , 2007, 6, 1101-1113.	3.7	3
107	Leaf apoplasmic proteome composition in UV-B treated <i>Arabidopsis thaliana</i> mutants impaired in extracellular glutathione degradation. <i>Data in Brief</i> , 2016, 6, 368-377.	1.0	3
108	Proteomic Study Identifies Glycolytic and Inflammation Pathways Involved in Recurrent Otitis Media. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9291.	4.1	3

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109	Hen egg white lysozyme is a hidden allergen in Italian commercial ciders. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2016, 34, 1-7.	2.3	2
110	Dysregulated chaperones associated with cell proliferation and negative apoptosis regulation in the uterine leiomyoma. Oncology Letters, 2018, 15, 8005-8010.	1.8	2
111	Topical application of lyophilized and powdered human amniotic membrane promotes diabetic ulcer healing. Wound Medicine, 2019, 27, 100171.	2.7	2
112	Responsiveness to Hedgehog Pathway Inhibitors in T-Cell Acute Lymphoblastic Leukemia Cells Is Highly Dependent on 5â€²AMP-Activated Kinase Inactivation. International Journal of Molecular Sciences, 2021, 22, 6384.	4.1	2
113	Parallel post-source decay for increasing protein identification confidence levels from 2â€² gels. Proteomics, 2008, 8, 1771-1779.	2.2	1
114	Engineered EVs for Oxidative Stress Protection. Pharmaceuticals, 2021, 14, 703.	3.8	1
115	Leiomyoma phosphoproteins involved in inhibition of oxidative stress and synthesis of reactive oxygen species. International Journal of Molecular Medicine, 2019, 44, 2329-2335.	4.0	1
116	Role of Protein Kinase CK2 in the Retinoic Acid-Induced Differentiation of Acute Promyelocytic Leukemia Cells.. Blood, 2007, 110, 879-879.	1.4	1
117	Serological Proteome Analysis for Identification of Potential Antigen in Atopic Dermatitis. Pediatrics & Health Research, 2016, 01, .	0.0	0