

# Didier Vertommen

## List of Publications by Year in descending order

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152  
papers

7,627  
citations

46984

47  
h-index

62565

80  
g-index

156  
all docs

156  
docs citations

156  
times ranked

11185  
citing authors

#	ARTICLE	IF	CITATIONS
1	Activation of AMP-Activated Protein Kinase Leads to the Phosphorylation of Elongation Factor 2 and an Inhibition of Protein Synthesis. <i>Current Biology</i> , 2002, 12, 1419-1423.	1.8	415
2	Phosphorylation and Activation of Heart 6-Phosphofructo-2-kinase by Protein Kinase B and Other Protein Kinases of the Insulin Signaling Cascades. <i>Journal of Biological Chemistry</i> , 1997, 272, 17269-17275.	1.6	363
3	6-Phosphofructo-2-kinase/fructose-2,6-bisphosphatase: head-to-head with a bifunctional enzyme that controls glycolysis. <i>Biochemical Journal</i> , 2004, 381, 561-579.	1.7	336
4	Insulin Antagonizes Ischemia-induced Thr172 Phosphorylation of AMP-activated Protein Kinase $\alpha$ -Subunits in Heart via Hierarchical Phosphorylation of Ser485/491. <i>Journal of Biological Chemistry</i> , 2006, 281, 5335-5340.	1.6	308
5	Identification of Phosphorylation Sites in AMP-activated Protein Kinase (AMPK) for Upstream AMPK Kinases and Study of Their Roles by Site-directed Mutagenesis. <i>Journal of Biological Chemistry</i> , 2003, 278, 28434-28442.	1.6	204
6	A Cluster of Mutations in the UMOD Gene Causes Familial Juvenile Hyperuricemic Nephropathy with Abnormal Expression of Uromodulin. <i>Journal of the American Society of Nephrology: JASN</i> , 2003, 14, 2883-2893.	3.0	201
7	5-Aminoimidazole-4-Carboxamide-1- $\beta$ -D-Ribofuranoside and Metformin Inhibit Hepatic Glucose Phosphorylation by an AMP-Activated Protein Kinase-Independent Effect on Glucokinase Translocation. <i>Diabetes</i> , 2006, 55, 865-874.	0.3	171
8	Molecular Identification of Carnosine Synthase as ATP-grasp Domain-containing Protein 1 (ATPGD1). <i>Journal of Biological Chemistry</i> , 2010, 285, 9346-9356.	1.6	165
9	Sulfenome mining in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11545-11550.	3.3	163
10	A Periplasmic Reducing System Protects Single Cysteine Residues from Oxidation. <i>Science</i> , 2009, 326, 1109-1111.	6.0	158
11	Detecting Envelope Stress by Monitoring $\beta$ -Barrel Assembly. <i>Cell</i> , 2014, 159, 1652-1664.	13.5	154
12	Repairing oxidized proteins in the bacterial envelope using respiratory chain electrons. <i>Nature</i> , 2015, 528, 409-412.	13.7	139
13	Characterization of the role of the <i>Escherichia coli</i> periplasmic chaperone SurA using differential proteomics. <i>Proteomics</i> , 2009, 9, 2432-2443.	1.3	128
14	Myocardial Ischemia and Increased Heart Work Modulate the Phosphorylation State of Eukaryotic Elongation Factor-2. <i>Journal of Biological Chemistry</i> , 2003, 278, 41970-41976.	1.6	118
15	ISPD produces CDP-ribitol used by FKTN and FKRP to transfer ribitol phosphate onto $\alpha$ -dystroglycan. <i>Nature Communications</i> , 2016, 7, 11534.	5.8	113
16	Mining for protein S-sulfenylation in <i>Arabidopsis</i> uncovers redox-sensitive sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21256-21261.	3.3	107
17	Identification of a dehydrogenase acting on D-2-hydroxyglutarate. <i>Biochemical Journal</i> , 2004, 381, 35-42.	1.7	105
18	Extremely Conserved ATP- or ADP-dependent Enzymatic System for Nicotinamide Nucleotide Repair. <i>Journal of Biological Chemistry</i> , 2011, 286, 41246-41252.	1.6	100

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19	AMP-activated Protein Kinase Phosphorylates and Desensitizes Smooth Muscle Myosin Light Chain Kinase. <i>Journal of Biological Chemistry</i> , 2008, 283, 18505-18512.	1.6	99
20	AMP-activated protein kinase phosphorylates and inactivates liver glycogen synthase. <i>Biochemical Journal</i> , 2012, 443, 193-203.	1.7	98
21	Differential expression of glycosomal and mitochondrial proteins in the two major life-cycle stages of <i>Trypanosoma brucei</i> . <i>Molecular and Biochemical Parasitology</i> , 2008, 158, 189-201.	0.5	90
22	A conserved phosphatase destroys toxic glycolytic side products in mammals and yeast. <i>Nature Chemical Biology</i> , 2016, 12, 601-607.	3.9	88
23	Mycoredoxin is one of the missing links in the oxidative stress defence mechanism of <i>Mycobacteria</i> . <i>Molecular Microbiology</i> , 2012, 86, 787-804.	1.2	86
24	Eukaryotic Elongation Factor 2 Kinase Activity Is Controlled by Multiple Inputs from Oncogenic Signaling. <i>Molecular and Cellular Biology</i> , 2014, 34, 4088-4103.	1.1	84
25	Regulation of Protein Kinase D by Multisite Phosphorylation. <i>Journal of Biological Chemistry</i> , 2000, 275, 19567-19576.	1.6	79
26	SETD3 protein is the actin-specific histidine N-methyltransferase. <i>ELife</i> , 2018, 7, .	2.8	77
27	Calreticulin mutants as oncogenic rogue chaperones for TpoR and traffic-defective pathogenic TpoR mutants. <i>Blood</i> , 2019, 133, 2669-2681.	0.6	74
28	Protein phosphatase 2A controls the activity of histone deacetylase 7 during T cell apoptosis and angiogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 4727-4732.	3.3	73
29	Identification of Fructosamine Residues Deglycated by Fructosamine-3-kinase in Human Hemoglobin. <i>Journal of Biological Chemistry</i> , 2004, 279, 27613-27620.	1.6	71
30	A small-molecule benzimidazole derivative that potently activates AMPK to increase glucose transport in skeletal muscle: comparison with effects of contraction and other AMPK activators. <i>Biochemical Journal</i> , 2014, 460, 363-375.	1.7	71
31	Increased protein glycation in fructosamine 3-kinase-deficient mice. <i>Biochemical Journal</i> , 2006, 399, 257-264.	1.7	70
32	The disulphide isomerase DsbC cooperates with the oxidase DsbA in a DsbA-independent manner. <i>Molecular Microbiology</i> , 2008, 67, 336-349.	1.2	68
33	Characterization of the role of the receptors PEX5 and PEX7 in the import of proteins into glycosomes of <i>Trypanosoma brucei</i> . <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2007, 1773, 521-535.	1.9	66
34	New Role for hPar-1 Kinases EMK and C-TAK1 in Regulating Localization and Activity of Class IIa Histone Deacetylases. <i>Molecular and Cellular Biology</i> , 2006, 26, 7086-7102.	1.1	64
35	Host-pathogen interactome mapping for HTLV-1 and -2 retroviruses. <i>Retrovirology</i> , 2012, 9, 26.	0.9	64
36	PFKFB3 activation in cancer cells by the p38/MK2 pathway in response to stress stimuli. <i>Biochemical Journal</i> , 2013, 452, 531-543.	1.7	64

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37	Binding of mannose-binding lectin to fructosamines: a potential link between hyperglycaemia and complement activation in diabetes. <i>Diabetes/Metabolism Research and Reviews</i> , 2010, 26, 254-260.	1.7	62
38	Crystal Structure of the Outer Membrane Protein RcsF, a New Substrate for the Periplasmic Protein-disulfide Isomerase DsbC. <i>Journal of Biological Chemistry</i> , 2011, 286, 16734-16742.	1.6	61
39	Identification of peptidases in <i>Nicotiana tabacum</i> leaf intercellular fluid. <i>Proteomics</i> , 2008, 8, 2285-2298.	1.3	59
40	AMP-activated protein kinase induces actin cytoskeleton reorganization in epithelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2010, 396, 656-661.	1.0	59
41	Dissecting the <i>Escherichia coli</i> periplasmic chaperone network using differential proteomics. <i>Proteomics</i> , 2012, 12, 1391-1401.	1.3	58
42	Glutathione S-Transferases Interact with AMP-Activated Protein Kinase: Evidence for S-Glutathionylation and Activation In Vitro. <i>PLoS ONE</i> , 2013, 8, e62497.	1.1	56
43	Identification of in Vivo Phosphorylation Sites on Human Deoxycytidine Kinase. <i>Journal of Biological Chemistry</i> , 2006, 281, 4887-4893.	1.6	54
44	Generation of Organized Porcine Testicular Organoids in Solubilized Hydrogels from Decellularized Extracellular Matrix. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5476.	1.8	53
45	Phosphatidylinositol 3-phosphate 5-kinase (PIKfyve) is an AMPK target participating in contraction-stimulated glucose uptake in skeletal muscle. <i>Biochemical Journal</i> , 2013, 455, 195-206.	1.7	50
46	Role of Akt/PKB and PFKFB isoenzymes in the control of glycolysis, cell proliferation and protein synthesis in mitogen-stimulated thymocytes. <i>Cellular Signalling</i> , 2017, 34, 23-37.	1.7	50
47	Identification of autophosphorylation sites in eukaryotic elongation factor-2 kinase. <i>Biochemical Journal</i> , 2012, 442, 681-692.	1.7	49
48	Development of a Nanobody-based lateral flow assay to detect active <i>Trypanosoma congolense</i> infections. <i>Scientific Reports</i> , 2018, 8, 9019.	1.6	49
49	Mammalian target of rapamycin-independent S6K1 and 4E-BP1 phosphorylation during contraction in rat skeletal muscle. <i>Cellular Signalling</i> , 2013, 25, 1877-1886.	1.7	48
50	Mycothiol/Mycoredoxin 1-dependent Reduction of the Peroxiredoxin AhpE from <i>Mycobacterium tuberculosis</i> . <i>Journal of Biological Chemistry</i> , 2014, 289, 5228-5239.	1.6	48
51	Self-protection of cytosolic malate dehydrogenase against oxidative stress in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2018, 69, 3491-3505.	2.4	48
52	The Protein-disulfide Isomerase DsbC Cooperates with SurA and DsbA in the Assembly of the Essential $\beta$ -Barrel Protein LptD. <i>Journal of Biological Chemistry</i> , 2010, 285, 29425-29433.	1.6	47
53	Ethylmalonyl-CoA Decarboxylase, a New Enzyme Involved in Metabolite Proofreading. <i>Journal of Biological Chemistry</i> , 2011, 286, 42992-43003.	1.6	46
54	TLR9 and beclin-1 crosstalk regulates muscle AMPK activation in exercise. <i>Nature</i> , 2020, 578, 605-609.	13.7	46

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55	Dissecting the Machinery That Introduces Disulfide Bonds in <i>Pseudomonas aeruginosa</i> . <i>MBio</i> , 2013, 4, e00912-13.	1.8	45
56	The <i>Corynebacterium glutamicum</i> mycothiol peroxidase is a reactive oxygen species-scavenging enzyme that shows promiscuity in thiol redox control. <i>Molecular Microbiology</i> , 2015, 96, 1176-1191.	1.2	45
57	Identification of the gene encoding hydroxyacid-oxoacid transhydrogenase, an enzyme that metabolizes 4-hydroxybutyrate. <i>FEBS Letters</i> , 2006, 580, 2347-2350.	1.3	43
58	Molecular Identification of Mammalian Phosphopentomutase and Glucose-1,6-bisphosphate Synthase, Two Members of the $\beta$ -D-Phosphohexomutase Family. <i>Journal of Biological Chemistry</i> , 2007, 282, 31844-31851.	1.6	43
59	The Interferon-Inducible Mouse Apolipoprotein L9 and Prohibitins Cooperate to Restrict Theiler's Virus Replication. <i>PLoS ONE</i> , 2015, 10, e0133190.	1.1	43
60	CnoX Is a Chaperodoxin: A Holdase that Protects Its Substrates from Irreversible Oxidation. <i>Molecular Cell</i> , 2018, 70, 614-627.e7.	4.5	43
61	Magnesium-dependent Phosphatase-1 Is a Protein-Fructosamine-6-phosphatase Potentially Involved in Glycation Repair. <i>Journal of Biological Chemistry</i> , 2006, 281, 18378-18385.	1.6	42
62	Identification of 3-deoxyglucosone dehydrogenase as aldehyde dehydrogenase 1A1 (retinaldehyde) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.3	41
63	Variability in erythrocyte fructosamine 3-kinase activity in humans correlates with polymorphisms in the FN3K gene and impacts on haemoglobin glycation at specific sites. <i>Diabetes and Metabolism</i> , 2006, 32, 31-39.	1.4	39
64	Identification of the sequence encoding N-acetylneuraminase-9-phosphate phosphatase. <i>Glycobiology</i> , 2006, 16, 165-172.	1.3	39
65	Anti-alcohol abuse drug disulfiram inhibits human PHGDH via disruption of its active tetrameric form through a specific cysteine oxidation. <i>Scientific Reports</i> , 2019, 9, 4737.	1.6	39
66	Effects of Pharmacological AMP Deaminase Inhibition and <i>Ampd1</i> Deletion on Nucleotide Levels and AMPK Activation in Contracting Skeletal Muscle. <i>Chemistry and Biology</i> , 2014, 21, 1497-1510.	6.2	38
67	Identification of Substrates and Chaperone from the <i>Yersinia enterocolitica</i> 1B Ysa Type III Secretion System. <i>Infection and Immunity</i> , 2003, 71, 242-253.	1.0	37
68	NAT6 acetylates the N-terminus of different forms of actin. <i>FEBS Journal</i> , 2018, 285, 3299-3316.	2.2	36
69	A Draft Map of the Human Ovarian Proteome for Tissue Engineering and Clinical Applications. <i>Molecular and Cellular Proteomics</i> , 2019, 18, S159-S173.	2.5	35
70	The Crystal Structure of <i>Trypanosoma brucei</i> Enolase: Visualisation of the Inhibitory Metal Binding Site III and Potential as Target for Selective, Irreversible Inhibition. <i>Journal of Molecular Biology</i> , 2003, 331, 653-665.	2.0	34
71	<i>HDHD1</i> , which is often deleted in X-linked ichthyosis, encodes a pseudouridine-5'-phosphatase. <i>Biochemical Journal</i> , 2010, 431, 237-244.	1.7	34
72	Identification of protein kinase D as a novel contraction-activated kinase linked to GLUT4-mediated glucose uptake, independent of AMPK. <i>Cellular Signalling</i> , 2008, 20, 543-556.	1.7	33

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73	The ATP-binding Site in the 2-Kinase Domain of Liver 6-Phosphofructo-2-kinase/Fructose-2,6-bisphosphatase. <i>Journal of Biological Chemistry</i> , 1996, 271, 17875-17880.	1.6	30
74	Many fructosamine 3-kinase homologues in bacteria are ribulosamine/erythruosamine 3-kinases potentially involved in protein deglycation. <i>FEBS Journal</i> , 2007, 274, 4360-4374.	2.2	30
75	Fructosamine 3-kinase-related protein and deglycation in human erythrocytes. <i>Biochemical Journal</i> , 2004, 382, 137-143.	1.7	29
76	The Crystal Structure of Trypanosoma cruzi Glucokinase Reveals Features Determining Oligomerization and Anomer Specificity of Hexose-phosphorylating Enzymes. <i>Journal of Molecular Biology</i> , 2007, 372, 1215-1226.	2.0	29
77	Endoplasmic reticulum Ca <sup>2+</sup> content decrease by PKA-dependent hyperphosphorylation of type 1 IP3 receptor contributes to prostate cancer cell resistance to androgen deprivation. <i>Cell Calcium</i> , 2015, 57, 312-320.	1.1	29
78	Comprehensively Characterizing the Thioredoxin Interactome In Vivo Highlights the Central Role Played by This Ubiquitous Oxidoreductase in Redox Control. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 2125-2140.	2.5	29
79	Parkinson's disease protein PARK7 prevents metabolite and protein damage caused by a glycolytic metabolite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	29
80	Metabolite Proofreading in Carnosine and Homocarnosine Synthesis. <i>Journal of Biological Chemistry</i> , 2014, 289, 19726-19736.	1.6	28
81	A New Role for Escherichia coli DsbC Protein in Protection against Oxidative Stress. <i>Journal of Biological Chemistry</i> , 2014, 289, 12356-12364.	1.6	28
82	A novel mechanism of RNase L inhibition: Theiler's virus L* protein prevents 2-5A from binding to RNase L. <i>PLoS Pathogens</i> , 2018, 14, e1006989.	2.1	27
83	Heart 6-phosphofructo-2-kinase activation by insulin requires PKB (protein kinase B), but not SGK3 (serum- and glucocorticoid-induced protein kinase 3). <i>Biochemical Journal</i> , 2010, 431, 267-275.	1.7	25
84	Corynebacterium diphtheriae Methionine Sulfoxide Reductase A Exploits a Unique Mycothiol Redox Relay Mechanism. <i>Journal of Biological Chemistry</i> , 2015, 290, 11365-11375.	1.6	25
85	Evidence for new phosphorylation sites for protein kinase C and cyclic AMP-dependent protein kinase in bovine heart 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase. <i>FEBS Letters</i> , 1992, 310, 139-142.	1.3	24
86	Overexpression of the rhodanase PspE, a single cysteine-containing protein, restores disulphide bond formation to an Escherichia coli strain lacking DsbA. <i>Molecular Microbiology</i> , 2012, 85, 996-1006.	1.2	24
87	Genetic deletion of soluble 5'-nucleotidase II reduces body weight gain and insulin resistance induced by a high-fat diet. <i>Molecular Genetics and Metabolism</i> , 2019, 126, 377-387.	0.5	24
88	The Arabidopsis mediator complex subunit 8 regulates oxidative stress responses. <i>Plant Cell</i> , 2021, 33, 2032-2057.	3.1	23
89	Doxorubicin-induced activation of protein kinase D1 through caspase-mediated proteolytic cleavage: identification of two cleavage sites by microsequencing. <i>Cellular Signalling</i> , 2004, 16, 703-709.	1.7	22
90	Molecular Identification of $\beta$ -Citrylglutamate Hydrolase as Glutamate Carboxypeptidase 3. <i>Journal of Biological Chemistry</i> , 2011, 286, 38220-38230.	1.6	22

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91	Effects of genetic deletion of soluble 5 $\alpha$ -nucleotidases NT5C1A and NT5C2 on AMPK activation and nucleotide levels in contracting mouse skeletal muscles. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2017, 313, E48-E62.	1.8	22
92	Characterization of the cofactor-independent phosphoglycerate mutase from <i>Leishmania mexicana mexicana</i> . Histidines that coordinate the two metal ions in the active site show different susceptibilities to irreversible chemical modification. <i>FEBS Journal</i> , 2004, 271, 1798-1810.	0.2	21
93	Regulation of PIKfyve phosphorylation by insulin and osmotic stress. <i>Biochemical and Biophysical Research Communications</i> , 2010, 397, 650-655.	1.0	20
94	Disulfide bond formation protects <i>Arabidopsis thaliana</i> glutathione transferase tau 23 from oxidative damage. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 775-789.	1.1	20
95	Evidence for Conformational Changes within DsbD: Possible Role for Membrane-Embedded Proline Residues. <i>Journal of Bacteriology</i> , 2006, 188, 7317-7320.	1.0	19
96	Contribution of proteomics toward solving the fascinating mysteries of the biogenesis of the envelope of <i>Escherichia coli</i> . <i>Proteomics</i> , 2010, 10, 771-784.	1.3	18
97	Nanobodies targeting conserved epitopes on the major outer membrane protein of <i>Campylobacter</i> as potential tools for control of <i>Campylobacter</i> colonization. <i>Veterinary Research</i> , 2017, 48, 86.	1.1	18
98	The Chaperone and Redox Properties of CnoX Chaperedoxins Are Tailored to the Proteostatic Needs of Bacterial Species. <i>MBio</i> , 2018, 9, .	1.8	18
99	Extracellular vesicles from endothelial progenitor cells promote thyroid follicle formation. <i>Journal of Extracellular Vesicles</i> , 2018, 7, 1487250.	5.5	18
100	Redox controls RecA protein activity via reversible oxidation of its methionine residues. <i>ELife</i> , 2021, 10, .	2.8	18
101	Bifunctional Chloroplastic DJ-1B from <i>Arabidopsis thaliana</i> is an Oxidation-Robust Holdase and a Glyoxalase Sensitive to H <sub>2</sub> O <sub>2</sub> . <i>Antioxidants</i> , 2019, 8, 8.	2.2	17
102	Preclinical Activity of Ribociclib in Squamous Cell Carcinoma of the Head and Neck. <i>Molecular Cancer Therapeutics</i> , 2020, 19, 777-789.	1.9	17
103	The intra-mitochondrial O-GlcNAcylation system rapidly modulates OXPHOS function and ROS release in the heart. <i>Communications Biology</i> , 2022, 5, 349.	2.0	17
104	Stimulation of human and mouse erythrocyte Na <sup>+</sup> /K <sup>+</sup> 2Cl <sup>-</sup> cotransport by osmotic shrinkage does not involve AMP-activated protein kinase, but is associated with STE20/SPS1-related proline/alanine-rich kinase activation. <i>Journal of Physiology</i> , 2010, 588, 2315-2328.	1.3	16
105	HBP1 phosphorylation by AKT regulates its transcriptional activity and glioblastoma cell proliferation. <i>Cellular Signalling</i> , 2018, 44, 158-170.	1.7	16
106	Redox-regulated methionine oxidation of <i>Arabidopsis thaliana</i> glutathione transferase Phi9 induces H-site flexibility. <i>Protein Science</i> , 2019, 28, 56-67.	3.1	16
107	Obesity and triple-negative breast cancer: Is apelin a new key target?. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 10233-10244.	1.6	16
108	Identification, gene cloning and expression of serine proteases in the extracellular medium of <i>Nicotiana tabacum</i> cells. <i>Plant Cell Reports</i> , 2012, 31, 1959-1968.	2.8	15

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109	Modelling the 2-kinase domain of 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase on adenylate kinase. <i>Biochemical Journal</i> , 1997, 321, 615-621.	1.7	14
110	Identification and functional implication of a Rho kinase-dependent moesin-EBP50 interaction in noradrenaline-stimulated artery. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 299, C1530-C1540.	2.1	14
111	NAA80 bi-allelic missense variants result in high-frequency hearing loss, muscle weakness and developmental delay. <i>Brain Communications</i> , 2021, 3, fcab256.	1.5	14
112	A case of convergent evolution: Several viral and bacterial pathogens hijack RSK kinases through a common linear motif. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	14
113	Optical and EPR spectroscopic studies of demetallation of hemin by L-chain apoferritins. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 1426-1435.	1.5	13
114	Changes in the phosphoproteome of brown adipose tissue during hibernation in the ground squirrel, <i>Ictidomys tridecemlineatus</i> . <i>Physiological Genomics</i> , 2017, 49, 462-472.	1.0	12
115	Interplay of Structural Disorder and Short Binding Elements in the Cellular Chaperone Function of Plant Dehydrin ERD14. <i>Cells</i> , 2020, 9, 1856.	1.8	12
116	Two isoprenylated flavonoids from <i>Dorstenia psilurus</i> activate AMPK, stimulate glucose uptake, inhibit glucose production and lower glycemia. <i>Biochemical Journal</i> , 2019, 476, 3687-3704.	1.7	12
117	Mutagenesis of the fructose-6-phosphate-binding site in the 2-kinase domain of 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase. <i>FEBS Journal</i> , 1998, 254, 490-496.	0.2	11
118	Identification of protein-ribulosamine-5-phosphatase as human low-molecular-mass protein tyrosine phosphatase-A. <i>Biochemical Journal</i> , 2007, 406, 139-145.	1.7	11
119	Protein O-GlcNAcylation levels are regulated independently of dietary intake in a tissue and time-specific manner during rat postnatal development. <i>Acta Physiologica</i> , 2021, 231, e13566.	1.8	11
120	Site-directed mutagenesis of Lys-174, Asp-179 and Asp-191 in the 2-kinase domain of 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase. <i>Biochemical Journal</i> , 1997, 321, 623-627.	1.7	10
121	An Unbiased Immunization Strategy Results in the Identification of Enolase as a Potential Marker for Nanobody-Based Detection of <i>Trypanosoma evansi</i> . <i>Vaccines</i> , 2020, 8, 415.	2.1	10
122	Aberrant Membrane Composition and Biophysical Properties Impair Erythrocyte Morphology and Functionality in Elliptocytosis. <i>Biomolecules</i> , 2020, 10, 1120.	1.8	10
123	Casein kinase 1 $\gamma$ activates human recombinant deoxycytidine kinase by Ser-74 phosphorylation, but is not involved in the in vivo regulation of its activity. <i>Archives of Biochemistry and Biophysics</i> , 2010, 502, 44-52.	1.4	9
124	Theiler's Virus L* Protein Is Targeted to the Mitochondrial Outer Membrane. <i>Journal of Virology</i> , 2011, 85, 3690-3694.	1.5	9
125	An O-GlcNAcyomic Approach Reveals ACLY as a Potential Target in Sepsis in the Young Rat. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9236.	1.8	9
126	Dimeric Transmembrane Orientations of APP/C99 Regulate $\beta$ -Secretase Processing Line Impacting Signaling and Oligomerization. <i>IScience</i> , 2020, 23, 101887.	1.9	9



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127	Hypocrates is a genetically encoded fluorescent biosensor for (pseudo)hypohalous acids and their derivatives. <i>Nature Communications</i> , 2022, 13, 171.	5.8	9
128	Alternative glycosylation controls endoplasmic reticulum dynamics and tubular extension in mammalian cells. <i>Science Advances</i> , 2021, 7, .	4.7	8
129	Identification of Phosphorylation Sites on Human Deoxycytidine Kinase After Overexpression in Eucaryotic Cells. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2006, 25, 1141-1146.	0.4	7
130	A New Oxopiperazinâ€Based Peptidomimetic Molecule Inhibits Prostatic Acid Phosphatase Secretion and Induces Prostate Cancer Cell Apoptosis. <i>ChemistrySelect</i> , 2016, 1, 4658-4667.	0.7	7
131	Methyl arachidonyl fluorophosphonate inhibits <i>Mycobacterium</i> tuberculosis thioesterase TesA and globally affects vancomycin susceptibility. <i>FEBS Letters</i> , 2020, 594, 79-93.	1.3	7
132	Methionine sulfoxide reductase B from <i>Corynebacterium diphtheriae</i> catalyzes sulfoxide reduction via an intramolecular disulfide cascade. <i>Journal of Biological Chemistry</i> , 2020, 295, 3664-3677.	1.6	7
133	Proteome-wide and matrisome-specific atlas of the human ovary computes fertility biomarker candidates and open the way for precision oncofertility. <i>Matrix Biology</i> , 2022, 109, 91-120.	1.5	7
134	Mutagenesis of charged residues in a conserved sequence in the 2-kinase domain of 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase. <i>Biochemical Journal</i> , 1997, 321, 609-614.	1.7	6
135	Evaluation of the role of protein kinase C $\eta$ in insulin-induced heart 6-phosphofructo-2-kinase activation. <i>Cellular Signalling</i> , 2007, 19, 52-61.	1.7	6
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