

# Constance J Jeffery

## List of Publications by Year in descending order

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68  
papers

4,613  
citations

186265

28  
h-index

123424

61  
g-index

70  
all docs

70  
docs citations

70  
times ranked

5485  
citing authors

#	ARTICLE	IF	CITATIONS
1	Moonlighting proteins. Trends in Biochemical Sciences, 1999, 24, 8-11.	7.5	1,017
2	Moonlighting proteins: old proteins learning new tricks. Trends in Genetics, 2003, 19, 415-417.	6.7	438
3	Utilizing the folate receptor for active targeting of cancer nanotherapeutics. Nano Reviews, 2012, 3, 18496.	3.7	392
4	Moonlighting proteinsâ€™an update. Molecular BioSystems, 2009, 5, 345.	2.9	282
5	Protein moonlighting: what is it, and why is it important?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20160523.	4.0	218
6	An Experimental Approach to Mapping the Binding Surfaces of Crystalline Proteinsâ€™. The Journal of Physical Chemistry, 1996, 100, 2605-2611.	2.9	179
7	MoonProt: a database for proteins that are known to moonlight. Nucleic Acids Research, 2015, 43, D277-D282.	14.5	173
8	Crystal Structure of Rabbit Phosphoglucose Isomerase, a Glycolytic Enzyme That Moonlights as Neuroleukin, Autocrine Motility Factor, and Differentiation Mediatorâ€™. Biochemistry, 2000, 39, 955-964.	2.5	136
9	Multifunctional proteins: examples of gene sharing. Annals of Medicine, 2003, 35, 28-35.	3.8	125
10	Molecular mechanisms for multitasking: recent crystal structures of moonlighting proteins. Current Opinion in Structural Biology, 2004, 14, 663-668.	5.7	123
11	An introduction to protein moonlighting. Biochemical Society Transactions, 2014, 42, 1679-1683.	3.4	120
12	Why study moonlighting proteins?. Frontiers in Genetics, 2015, 6, 211.	2.3	99
13	An analysis of surface proteomics results reveals novel candidates for intracellular/surface moonlighting proteins in bacteria. Molecular BioSystems, 2016, 12, 1420-1431.	2.9	88
14	MoonProt 2.0: an expansion and update of the moonlighting proteins database. Nucleic Acids Research, 2018, 46, D640-D644.	14.5	86
15	Physical Features of Intracellular Proteins that Moonlight on the Cell Surface. PLoS ONE, 2015, 10, e0130575.	2.5	75
16	Crystal Structure of Rabbit Phosphoglucose Isomerase Complexed with Its Substrated-Fructose 6-Phosphateâ€™. Biochemistry, 2001, 40, 7799-7805.	2.5	72
17	Mass spectrometry and the search for moonlighting proteins. Mass Spectrometry Reviews, 2005, 24, 772-782.	5.4	71
18	Crystal Structure of Rabbit Phosphoglucose Isomerase Complexed with 5-Phospho-d-Arabinonate Identifies the Role of Glu357 in Catalysisâ€™. Biochemistry, 2001, 40, 1560-1566.	2.5	68

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19	Proteins with neomorphic moonlighting functions in disease. <i>IUBMB Life</i> , 2011, 63, 489-494.	3.4	62
20	Intracellular proteins moonlighting as bacterial adhesion factors. <i>AIMS Microbiology</i> , 2018, 4, 362-376.	2.2	61
21	Protein species and moonlighting proteins: Very small changes in a protein's covalent structure can change its biochemical function. <i>Journal of Proteomics</i> , 2016, 134, 19-24.	2.4	59
22	Disruption of the monocarboxylate transporter-4-basigin interaction inhibits the hypoxic response, proliferation, and tumor progression. <i>Scientific Reports</i> , 2017, 7, 4292.	3.3	55
23	The crystal structure of rabbit phosphoglucose isomerase complexed with 5-phospho-D-arabinonohydroxamic acid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 5872-5877.	7.1	44
24	MoonProt 3.0: an update of the moonlighting proteins database. <i>Nucleic Acids Research</i> , 2021, 49, D368-D372.	14.5	38
25	Enzymes, pseudoenzymes, and moonlighting proteins: diversity of function in protein superfamilies. <i>FEBS Journal</i> , 2020, 287, 4141-4149.	4.7	37
26	Crystal structure of <i>Saccharomyces cerevisiae</i> cytosolic aspartate aminotransferase. <i>Protein Science</i> , 1998, 7, 1380-1387.	7.6	33
27	Conformational Changes in Phosphoglucose Isomerase Induced by Ligand Binding. <i>Journal of Molecular Biology</i> , 2002, 323, 77-84.	4.2	30
28	Engineering periplasmic ligand binding proteins as glucose nanosensors. <i>Nano Reviews</i> , 2011, 2, 5743.	3.7	30
29	Inhibition of Type I and Type II Phosphomannose Isomerases by the Reaction Intermediate Analogue 5-Phospho-d-Arabinonohydroxamic Acid Supports a Catalytic Role for the Metal Cofactor. <i>Biochemistry</i> , 2004, 43, 2926-2934.	2.5	29
30	Moonlighting Proteins – Nature's Swiss Army Knives. <i>Science Progress</i> , 2017, 100, 363-373.	1.9	26
31	Moonlighting Proteins in the Fuzzy Logic of Cellular Metabolism. <i>Molecules</i> , 2020, 25, 3440.	3.8	25
32	Intracellular/surface moonlighting proteins that aid in the attachment of gut microbiota to the host. <i>AIMS Microbiology</i> , 2019, 5, 77-86.	2.2	25
33	The reaction mechanism of type I phosphomannose isomerases: New information from inhibition and polarizable molecular mechanics studies. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 203-220.	2.6	24
34	Three-dimensional structural model of the serine receptor ligand-binding domain. <i>Protein Science</i> , 1993, 2, 559-566.	7.6	23
35	Moonlighting proteins: complications and implications for proteomics research. <i>Drug Discovery Today: TARGETS</i> , 2004, 3, 71-78.	0.5	23
36	Multitalented actors inside and outside the cell: recent discoveries add to the number of moonlighting proteins. <i>Biochemical Society Transactions</i> , 2019, 47, 1941-1948.	3.4	23

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37	A Single Hydrophobic to Hydrophobic Substitution in the Transmembrane Domain Impairs Aspartate Receptor Function. <i>Biochemistry</i> , 1994, 33, 3457-3463.	2.5	20
38	The demise of catalysis, but new functions arise: pseudoenzymes as the phoenixes of the protein world. <i>Biochemical Society Transactions</i> , 2019, 47, 371-379.	3.4	19
39	<i>Vibrio cholerae</i> hlyB is a member of the chemotaxis receptor gene family. <i>Protein Science</i> , 1993, 2, 1532-1535.	7.6	18
40	The crystal structure of rabbit phosphoglucose isomerase complexed with D-sorbitol-6-phosphate, an analog of the open chain form of D-glucose-6-phosphate. <i>Protein Science</i> , 2005, 14, 727-734.	7.6	18
41	Crystal structure of phosphoglucose isomerase from <i>Trypanosoma brucei</i> complexed with glucose-6-phosphate at 1.6 Å... resolution. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 74, 72-80.	2.6	16
42	The energetic cost of induced fit catalysis: Crystal structures of trypsinogen mutants with enhanced activity and inhibitor affinity. <i>Protein Science</i> , 2008, 10, 1331-1342.	7.6	15
43	Quality Matters: Biocuration Experts on the Impact of Duplication and Other Data Quality Issues in Biological Databases. <i>Genomics, Proteomics and Bioinformatics</i> , 2020, 18, 91-103.	6.9	14
44	Expression, Solubilization, and Purification of Bacterial Membrane Proteins. <i>Current Protocols in Protein Science</i> , 2016, 83, 29.15.1-29.15.15.	2.8	13
45	The expanding world of metabolic enzymes moonlighting as RNA binding proteins. <i>Biochemical Society Transactions</i> , 2021, 49, 1099-1108.	3.4	13
46	Recombinant Expression Screening of <i>P. aeruginosa</i> Bacterial Inner Membrane Proteins. <i>BMC Biotechnology</i> , 2010, 10, 83.	3.3	9
47	An enzyme in the test tube, and a transcription factor in the cell: Moonlighting proteins and cellular factors that affect their behavior. <i>Protein Science</i> , 2019, 28, 1233-1238.	7.6	9
48	The <i>Escherichia coli</i> aspartate receptor: sequence specificity of a transmembrane helix studied by hydrophobic-biased random mutagenesis. <i>Protein Engineering, Design and Selection</i> , 1999, 12, 863-872.	2.1	5
49	Expression, Detergent Solubilization, and Purification of a Membrane Transporter, the MexB Multidrug Resistance Protein. <i>Journal of Visualized Experiments</i> , 2010, , .	0.3	5
50	The Use of Proteomics Studies in Identifying Moonlighting Proteins. <i>Methods in Molecular Biology</i> , 2019, 1871, 437-443.	0.9	5
51	Moonlighting Proteins: Proteins with Multiple Functions. , 2005, , 61-77.		4
52	New Ideas on Protein Moonlighting. <i>Heat Shock Proteins</i> , 2013, , 51-66.	0.2	4
53	Crystallization and preliminary X-ray diffraction analysis of aspartate aminotransferase from <i>Saccharomyces cerevisiae</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1998, 54, 659-661.	2.5	2
54	Keeping good friends close – The surface and secreted proteomes of a probiotic bacterium provide candidate proteins for intestinal attachment and communication with the host. <i>Proteomics</i> , 2017, 17, 1700112.	2.2	2

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55	Open Conformation of the Escherichia coli Periplasmic Murein Tripeptide Binding Protein, MppA, at High Resolution. <i>Biology</i> , 2018, 7, 30.	2.8	2
56	Updating MoonProt From Home: An Online Student Research Project During the COVID-19 Pandemic. <i>The Biophysicist</i> , 2021, 2, 23-27.	0.3	2
57	Moonlighting proteins. <i>Genome Biology</i> , 2010, 11, P21.	9.6	2
58	Moonlighting Proteins Database. <i>Biophysical Journal</i> , 2011, 100, 319a.	0.5	1
59	Moonlighting Proteins. <i>Biophysical Journal</i> , 2012, 102, 185a-186a.	0.5	1
60	Intracellular/Surface Moonlighting Proteins. <i>Biophysical Journal</i> , 2016, 110, 209a.	0.5	1
61	Promoting a More Integrated Approach to Structure and Function. <i>Integrative and Comparative Biology</i> , 2021, , .	2.0	1
62	Moonlighting Functions of Heat Shock Protein 90. <i>Heat Shock Proteins</i> , 2019, , 269-279.	0.2	1
63	Workshop attendees suggest methods to improve the number and advancement of women scientists in NanoScience/NanoTechnology. <i>Nano Reviews</i> , 2012, 3, 15895.	3.7	0
64	Danish Team wins First BIOMOD International Undergraduate Nanobiology Design Competition. <i>Nano Reviews</i> , 2012, 3, 17201.	3.7	0
65	Frozen Permanents of E. coli Cultures. <i>Protocol Exchange</i> , 0, , .	0.3	0
66	Moonlighting Proteins. <i>FASEB Journal</i> , 2013, 27, 810.10.	0.5	0
67	MoonProt: A Database for Proteins That Are Known to Moonlight. <i>FASEB Journal</i> , 2015, 29, 567.10.	0.5	0
68	Abstract 5023: Disruption of Monocarboxylate transporter-4 Basigin interaction as an effective strategy to inhibit hypoxic response, tumor growth and vascularization, and stem cell phenotype in human glioblastomain vitroandin vivo. , 2017, , .		0