R Michael Garavito

List of Publications by Citations

Source: https://exaly.com/author-pdf/10428697/r-michael-garavito-publications-by-citations.pdf

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59 papers 9,476 35 h-index g-index

63 10,044 7.9 5.83 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
59	Cyclooxygenases: structural, cellular, and molecular biology. <i>Annual Review of Biochemistry</i> , 2000 , 69, 145-82	29.1	2375
58	Prostaglandin endoperoxide H synthases (cyclooxygenases)-1 and -2. <i>Journal of Biological Chemistry</i> , 1996 , 271, 33157-60	5.4	1377
57	The X-ray crystal structure of the membrane protein prostaglandin H2 synthase-1. <i>Nature</i> , 1994 , 367, 243-9	50.4	1144
56	Detergents as tools in membrane biochemistry. <i>Journal of Biological Chemistry</i> , 2001 , 276, 32403-6	5.4	426
55	The structural basis of aspirin activity inferred from the crystal structure of inactivated prostaglandin H2 synthase. <i>Nature Structural Biology</i> , 1995 , 2, 637-43		390
54	Gene transfer from bacteria and archaea facilitated evolution of an extremophilic eukaryote. <i>Science</i> , 2013 , 339, 1207-10	33.3	324
53	Enzymes and receptors of prostaglandin pathways with arachidonic acid-derived versus eicosapentaenoic acid-derived substrates and products. <i>Journal of Biological Chemistry</i> , 2007 , 282, 222	5 <i>4</i> -86	302
52	Identification of conserved lipid/detergent-binding sites in a high-resolution structure of the membrane protein cytochrome c oxidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 16117-22	11.5	244
51	Comparative genomics of two closely related unicellular thermo-acidophilic red algae, Galdieria sulphuraria and Cyanidioschyzon merolae, reveals the molecular basis of the metabolic flexibility of Galdieria sulphuraria and significant differences in carbohydrate metabolism of both algae. <i>Plant</i>	6.6	163
50	Synthesis and use of iodinated nonsteroidal antiinflammatory drug analogs as crystallographic probes of the prostaglandin H2 synthase cyclooxygenase active site. <i>Biochemistry</i> , 1996 , 35, 7330-40	3.2	161
49	Isolation and crystallization of bacterial porin. <i>Methods in Enzymology</i> , 1986 , 125, 309-28	1.7	140
48	Structure of the TDP-epi-vancosaminyltransferase GtfA from the chloroeremomycin biosynthetic pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 92	238 ⁻ 43	133
47	Involvement of arginine 120, glutamate 524, and tyrosine 355 in the binding of arachidonate and 2-phenylpropionic acid inhibitors to the cyclooxygenase active site of ovine prostaglandin endoperoxide H synthase-1. <i>Journal of Biological Chemistry</i> , 1996 , 271, 2179-84	5.4	131
46	Protein structure. Crystal structures of translocator protein (TSPO) and mutant mimic of a human polymorphism. <i>Science</i> , 2015 , 347, 555-8	33.3	124
45	Crystal structure of vancosaminyltransferase GtfD from the vancomycin biosynthetic pathway: interactions with acceptor and nucleotide ligands. <i>Biochemistry</i> , 2004 , 43, 5170-80	3.2	113
44	Recombinant Arabidopsis SQD1 converts udp-glucose and sulfite to the sulfolipid head group precursor UDP-sulfoquinovose in vitro. <i>Journal of Biological Chemistry</i> , 2001 , 276, 3941-6	5.4	112
43	Strategies for crystallizing membrane proteins. <i>Journal of Bioenergetics and Biomembranes</i> , 1996 , 28, 13-27	3.7	105

42	The structures of prostaglandin endoperoxide H synthases-1 and -2. <i>Prostaglandins and Other Lipid Mediators</i> , 2002 , 68-69, 129-52	3.7	104
41	The structure of mammalian cyclooxygenases. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2003 , 32, 183-206		103
40	Structure of eicosapentaenoic and linoleic acids in the cyclooxygenase site of prostaglandin endoperoxide H synthase-1. <i>Journal of Biological Chemistry</i> , 2001 , 276, 37547-55	5.4	103
39	The structure of mammalian hexokinase-1. <i>Nature Structural Biology</i> , 1998 , 5, 555-60		100
38	Prostaglandin endoperoxide H synthase-1: the functions of cyclooxygenase active site residues in the binding, positioning, and oxygenation of arachidonic acid. <i>Journal of Biological Chemistry</i> , 2001 , 276, 10347-57	5.4	100
37	The role of arginine 120 of human prostaglandin endoperoxide H synthase-2 in the interaction with fatty acid substrates and inhibitors. <i>Journal of Biological Chemistry</i> , 1999 , 274, 17109-14	5.4	90
36	EST-analysis of the thermo-acidophilic red microalga Galdieria sulphuraria reveals potential for lipid A biosynthesis and unveils the pathway of carbon export from rhodoplasts. <i>Plant Molecular Biology</i> , 2004 , 55, 17-32	4.6	83
35	Translocator Protein 18 kDa (TSPO): An Old Protein with New Functions?. <i>Biochemistry</i> , 2016 , 55, 2821-	33.2	81
34	The art of crystallizing membrane proteins. <i>Methods</i> , 1990 , 1, 57-69	4.6	76
33	Oxicams bind in a novel mode to the cyclooxygenase active site via a two-water-mediated H-bonding Network. <i>Journal of Biological Chemistry</i> , 2014 , 289, 6799-6808	5.4	74
32	Structural basis of enantioselective inhibition of cyclooxygenase-1 by S-alpha-substituted indomethacin ethanolamides. <i>Journal of Biological Chemistry</i> , 2007 , 282, 28096-105	5.4	70
31	The membrane binding domains of prostaglandin endoperoxide H synthases 1 and 2. Peptide mapping and mutational analysis. <i>Journal of Biological Chemistry</i> , 1999 , 274, 32936-42	5.4	65
30	The structure of sucrose synthase-1 from Arabidopsis thaliana and its functional implications. <i>Journal of Biological Chemistry</i> , 2011 , 286, 36108-36118	5.4	62
29	Conserved lipid-binding sites in membrane proteins: a focus on cytochrome c oxidase. <i>Current Opinion in Structural Biology</i> , 2007 , 17, 444-50	8.1	46
28	Structure of the MUR1 GDP-mannose 4,6-dehydratase from Arabidopsis thaliana: implications for ligand binding and specificity. <i>Biochemistry</i> , 2002 , 41, 15578-89	3.2	43
27	Mutational and X-ray crystallographic analysis of the interaction of dihomo-gamma -linolenic acid with prostaglandin endoperoxide H synthases. <i>Journal of Biological Chemistry</i> , 2001 , 276, 10358-65	5.4	42
26	Crystal structure of a tetrameric GDP-D-mannose 4,6-dehydratase from a bacterial GDP-D-rhamnose biosynthetic pathway. <i>Protein Science</i> , 2004 , 13, 529-39	6.3	41
25	Crystallographic location and mutational analysis of Zn and Cd inhibitory sites and role of lipidic carboxylates in rescuing proton path mutants in cytochrome c oxidase. <i>Biochemistry</i> , 2007 , 46, 6239-48	3.2	35

24	Ferredoxin-dependent glutamate synthase moonlights in plant sulfolipid biosynthesis by forming a complex with SQD1. <i>Archives of Biochemistry and Biophysics</i> , 2005 , 436, 206-14	4.1	35
23	Fabrication of highly insulating tethered bilayer lipid membrane using yeast cell membrane fractions for measuring ion channel activity. <i>Journal of Colloid and Interface Science</i> , 2008 , 322, 465-72	9.3	31
22	Functional characterization of PorB class II porin from Neisseria meningitidis using a tethered bilayer lipid membrane. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 837-41	11.8	31
21	Peroxidase activity in prostaglandin endoperoxide H synthase-1 occurs with a neutral histidine proximal heme ligand. <i>Biochemistry</i> , 2000 , 39, 6616-24	3.2	31
20	Studies on coenzyme binding to glyceraldehyde-3-phosphate dehydrogenase. <i>Journal of Molecular Biology</i> , 1976 , 107, 577-84	6.5	31
19	Prostaglandin H synthase 2 variant (Val511Ala) in African Americans may reduce the risk for colorectal neoplasia. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2002 , 11, 1305-15	4	30
18	Anion binding sites in the active center of D-glyceraldehyde-3-phosphate dehydrogenase. <i>Journal of Molecular Biology</i> , 1976 , 107, 571-6	6.5	26
17	Interaction of Nitric Oxide with Prostaglandin Endoperoxide H Synthase-1:□Implications for Fe⊞is Bond Cleavage in Heme Proteins□ <i>Journal of Physical Chemistry B</i> , 2000 , 104, 10844-10850	3.4	22
16	Molecular asymmetry in an abortive ternary complex of lobster glyceraldehyde-3-phosphate dehydrogenase. <i>Biochemistry</i> , 1977 , 16, 4393-8	3.2	22
15	Crystal structure of arachidonic acid bound to a mutant of prostaglandin endoperoxide H synthase-1 that forms predominantly 11-hydroperoxyeicosatetraenoic acid. <i>Journal of Biological Chemistry</i> , 2004 , 279, 42929-35	5.4	21
14	Evolving understanding of translocator protein 18 kDa (TSPO). <i>Pharmacological Research</i> , 2015 , 99, 404	l-9 0.2	18
13	Structural characterization of a hydroxyacid dehydrogenase from Geobacter sulfurreducens and Geobacter metallireducens with succinic semialdehyde reductase activity. <i>Biochimie</i> , 2014 , 104, 61-9	4.6	13
12	Sulfolipid Biosynthesis and Function in Plants. Advances in Photosynthesis and Respiration, 2008, 185-20	01.7	12
11	Membrane protein structural biology minireview series. <i>Journal of Biological Chemistry</i> , 2001 , 276, 3239	93 5.4	9
10	Membrane protein structures: the known world expands. <i>Current Opinion in Biotechnology</i> , 1998 , 9, 344	1-349	8
9	Hematopoietic prostaglandin D synthase (HPGDS): a high stability, Val187Ile isoenzyme common among African Americans and its relationship to risk for colorectal cancer. <i>Prostaglandins and Other Lipid Mediators</i> , 2012 , 97, 22-8	3.7	7
8	Voltage dependent closure of PorB class II porin from Neisseria meningitidis investigated using impedance spectroscopy in a tethered bilayer lipid membrane interface. <i>Journal of Colloid and Interface Science</i> , 2013 , 390, 211-6	9.3	5
7	Identification of succinic semialdehyde reductases from Geobacter: expression, purification, crystallization, preliminary functional, and crystallographic analysis. <i>Acta Biochimica Et Biophysica Sinica</i> , 2011 , 43, 996-1002	2.8	5

LIST OF PUBLICATIONS

- Photoinduced Electron Transfers through Bonds in Solution. *Advances in Chemical Physics*, **2007**, 645-666 2
- Response to Comment on "Crystal structures of translocator protein (TSPO) and mutant mimic of a human polymorphism". *Science*, **2015**, 350, 519
- Preliminary X-Ray Investigations Into NSAID-Binding to Cyclooxygenase-1. *American Journal of Therapeutics*, **1995**, 2, 611-615
- 3 Crystallization of Membrane Proteins 2003, 27-54
- The atomic structure of visual rhodopsin: How and when?. Behavioral and Brain Sciences, 1995, 18, 474 0.9
- Substrate Interactions in the Cyclooxygenase-1 Active Site. *Medical Science Symposia Series*, **2001**, 57-64