

R Michael Garavito

List of Publications by Year in descending order

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61
papers

10,766
citations

109137

35
h-index

143772

57
g-index

63
all docs

63
docs citations

63
times ranked

10666
citing authors

#	ARTICLE	IF	CITATIONS
1	Cyclooxygenases: Structural, Cellular, and Molecular Biology. Annual Review of Biochemistry, 2000, 69, 145-182.	5.0	2,636
2	Prostaglandin Endoperoxide H Synthases (Cyclooxygenases)-1 and 2. Journal of Biological Chemistry, 1996, 271, 33157-33160.	1.6	1,614
3	The X-ray crystal structure of the membrane protein prostaglandin H2 synthase-1. Nature, 1994, 367, 243-249.	13.7	1,256
4	Detergents as Tools in Membrane Biochemistry. Journal of Biological Chemistry, 2001, 276, 32403-32406.	1.6	483
5	The structural basis of aspirin activity inferred from the crystal structure of inactivated prostaglandin H2 synthase. Nature Structural Biology, 1995, 2, 637-643.	9.7	442
6	Gene Transfer from Bacteria and Archaea Facilitated Evolution of an Extremophilic Eukaryote. Science, 2013, 339, 1207-1210.	6.0	439
7	Enzymes and Receptors of Prostaglandin Pathways with Arachidonic Acid-derived Versus Eicosapentaenoic Acid-derived Substrates and Products*. Journal of Biological Chemistry, 2007, 282, 22254-22266.	1.6	341
8	Identification of conserved lipid/detergent-binding sites in a high-resolution structure of the membrane protein cytochrome c oxidase. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16117-16122.	3.3	282
9	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. Plant Physiology, 2005, 137, 460-474.	2.3	184
10	Synthesis and Use of Iodinated Nonsteroidal Antiinflammatory Drug Analogs as Crystallographic Probes of the Prostaglandin H2Synthase Cyclooxygenase Active Site. Biochemistry, 1996, 35, 7330-7340.	1.2	172
11	[25] Isolation and crystallization of bacterial porin. Methods in Enzymology, 1986, 125, 309-328.	0.4	158
12	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. Journal of Biological Chemistry, 1996, 271, 2179-2184.	1.6	148
13	Structure of the TDP-epi-vancosaminyltransferase GtfA from the chloroeremomycin biosynthetic pathway. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 9238-9243.	3.3	144
14	Crystal structures of translocator protein (TSPO) and mutant mimic of a human polymorphism. Science, 2015, 347, 555-558.	6.0	143
15	Recombinant Arabidopsis SQD1 Converts UDP-glucose and Sulfite to the Sulfolipid Head Group Precursor UDP-sulfoquinovose in Vitro. Journal of Biological Chemistry, 2001, 276, 3941-3946.	1.6	135
16	Crystal Structure of Vancosaminyltransferase GtfD from the Vancomycin Biosynthetic Pathway: Interactions with Acceptor and Nucleotide Ligands. Biochemistry, 2004, 43, 5170-5180.	1.2	122
17	The structures of prostaglandin endoperoxide H synthases-1 and -2. Prostaglandins and Other Lipid Mediators, 2002, 68-69, 129-152.	1.0	121
18	The Structure of Mammalian Cyclooxygenases. Annual Review of Biophysics and Biomolecular Structure, 2003, 32, 183-206.	18.3	119

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19	Prostaglandin Endoperoxide H Synthase-1. <i>Journal of Biological Chemistry</i> , 2001, 276, 10347-10357.	1.6	118
20	Strategies for crystallizing membrane proteins. <i>Journal of Bioenergetics and Biomembranes</i> , 1996, 28, 13-27.	1.0	114
21	Structure of Eicosapentaenoic and Linoleic Acids in the Cyclooxygenase Site of Prostaglandin Endoperoxide H Synthase-1. <i>Journal of Biological Chemistry</i> , 2001, 276, 37547-37555.	1.6	112
22	The structure of mammalian hexokinase-1. <i>Nature Structural Biology</i> , 1998, 5, 555-560.	9.7	111
23	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, 17109-17114.	1.6	100
24	Translocator Protein 18 kDa (TSPO): An Old Protein with New Functions?. <i>Biochemistry</i> , 2016, 55, 2821-2831.	1.2	96
25	EST-analysis of the thermo-acidophilic red microalga <i>Galdieria sulphuraria</i> reveals potential for lipid A biosynthesis and unveils the pathway of carbon export from rhodoplasts. <i>Plant Molecular Biology</i> , 2004, 55, 17-32.	2.0	91
26	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.	1.6	90
27	Structural Basis of Enantioselective Inhibition of Cyclooxygenase-1 by S- $\hat{1}$ -Substituted Indomethacin Ethanolamides. <i>Journal of Biological Chemistry</i> , 2007, 282, 28096-28105.	1.6	87
28	The art of crystallizing membrane proteins. <i>Methods</i> , 1990, 1, 57-69.	1.9	79
29	The Structure of Sucrose Synthase-1 from <i>Arabidopsis thaliana</i> and Its Functional Implications. <i>Journal of Biological Chemistry</i> , 2011, 286, 36108-36118.	1.6	79
30	The Membrane Binding Domains of Prostaglandin Endoperoxide H Synthases 1 and 2. <i>Journal of Biological Chemistry</i> , 1999, 274, 32936-32942.	1.6	73
31	Conserved lipid-binding sites in membrane proteins: a focus on cytochrome c oxidase. <i>Current Opinion in Structural Biology</i> , 2007, 17, 444-450.	2.6	51
32	Structure of the MUR1 GDP-Mannose 4,6-Dehydratase from <i>Arabidopsis thaliana</i> : Implications for Ligand Binding and Specificity. <i>Biochemistry</i> , 2002, 41, 15578-15589.	1.2	48
33	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, 529-539.	3.1	47
34	Mutational and X-ray Crystallographic Analysis of the Interaction of Dihomo- $\hat{3}$ -linolenic Acid with Prostaglandin Endoperoxide H Synthases. <i>Journal of Biological Chemistry</i> , 2001, 276, 10358-10365.	1.6	44
35	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, 6239-6248.	1.2	38
36	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, 465-472.	5.0	36

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37	Studies on coenzyme binding to glyceraldehyde-3-phosphate dehydrogenase. <i>Journal of Molecular Biology</i> , 1976, 107, 577-584.	2.0	35
38	Peroxidase Activity in Prostaglandin Endoperoxide H Synthase-1 Occurs with a Neutral Histidine Proximal Heme Ligand. <i>Biochemistry</i> , 2000, 39, 6616-6624.	1.2	35
39	Ferredoxin-dependent glutamate synthase moonlights in plant sulfolipid biosynthesis by forming a complex with SQD1. <i>Archives of Biochemistry and Biophysics</i> , 2005, 436, 206-214.	1.4	35
40	Functional characterization of PorB class II porin from <i>Neisseria meningitidis</i> using a tethered bilayer lipid membrane. <i>Biosensors and Bioelectronics</i> , 2008, 24, 831-835.	5.3	34
41	The cyclooxygenase-2 structure: new drugs for an old target?. <i>Nature Structural Biology</i> , 1996, 3, 897-901.	9.7	32
42	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.	1.1	31
43	Anion binding sites in the active center of d-glyceraldehyde-3-phosphate dehydrogenase. <i>Journal of Molecular Biology</i> , 1976, 107, 571-576.	2.0	29
44	Molecular asymmetry in an abortive ternary complex of lobster glyceraldehyde-3-phosphate dehydrogenase. <i>Biochemistry</i> , 1977, 16, 4393-4398.	1.2	27
45	Evolving understanding of translocator protein 18kDa (TSPO). <i>Pharmacological Research</i> , 2015, 99, 404-409.	3.1	26
46	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, 42929-42935.	1.6	24
47	Interaction of Nitric Oxide with Prostaglandin Endoperoxide H Synthase-1: Implications for Fe-His Bond Cleavage in Heme Proteins. <i>Journal of Physical Chemistry B</i> , 2000, 104, 10844-10850.	1.2	22
48	Sulfolipid Biosynthesis and Function in Plants. <i>Advances in Photosynthesis and Respiration</i> , 2008, , 185-200.	1.0	15
49	Structural characterization of a β^2 -hydroxyacid dehydrogenase from <i>Geobacter sulfurreducens</i> and <i>Geobacter metallireducens</i> with succinic semialdehyde reductase activity. <i>Biochimie</i> , 2014, 104, 61-69.	1.3	14
50	Membrane Protein Structural Biology Minireview Series. <i>Journal of Biological Chemistry</i> , 2001, 276, 32393-32394.	1.6	11
51	Hematopoietic prostaglandin D synthase (HPCDS): 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, 22-28.	1.0	11
52	Membrane protein structures: the known world expands. <i>Current Opinion in Biotechnology</i> , 1998, 9, 344-349.	3.3	8
53	Membrane proteins Structure, assembly, and function: a panoply of progress. <i>Current Opinion in Structural Biology</i> , 1997, 7, 533-536.	2.6	6
54	Voltage dependent closure of PorB class II porin from <i>Neisseria meningitidis</i> investigated using impedance spectroscopy in a tethered bilayer lipid membrane interface. <i>Journal of Colloid and Interface Science</i> , 2013, 390, 211-216.	5.0	6

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55	Identification of succinic semialdehyde reductases from <i>Geobacter</i> : expression, purification, crystallization, preliminary functional, and crystallographic analysis. <i>Acta Biochimica Et Biophysica Sinica</i> , 2011, 43, 996-1002.	0.9	5
56	Photoinduced Electron Transfers through π Bonds in Solution. <i>Advances in Chemical Physics</i> , 2007, , 645-666.	0.3	3
57	Response to Comment on "Crystal structures of translocator protein (TSPO) and mutant mimic of a human polymorphism" <i>Science</i> , 2015, 350, 519-519.	6.0	3
58	PRELIMINARY X-RAY INVESTIGATIONS INTO NSAID-BINDING TO CYCLOOXYGENASE-1. <i>American Journal of Therapeutics</i> , 1995, 2, 611-615.	0.5	1
59	The atomic structure of visual rhodopsin: How and when?. <i>Behavioral and Brain Sciences</i> , 1995, 18, 474-475.	0.4	0
60	Crystallization of Membrane Proteins. , 2003, , 27-54.		0
61	Substrate Interactions in the Cyclooxygenase-1 Active Site. <i>Medical Science Symposia Series</i> , 2001, , 57-64.	0.0	0