

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	Translocator Protein 18 kDa (TSPO): An Old Protein with New Functions?. <i>Biochemistry</i> , 2016, 55, 2821-2831.	1.2	96
2	Crystal structures of translocator protein (TSPO) and mutant mimic of a human polymorphism. <i>Science</i> , 2015, 347, 555-558.	6.0	143
3	Evolving understanding of translocator protein 18kDa (TSPO). <i>Pharmacological Research</i> , 2015, 99, 404-409.	3.1	26
4	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
5	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
6	Structural characterization of a β -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
7	Gene Transfer from Bacteria and Archaea Facilitated Evolution of an Extremophilic Eukaryote. <i>Science</i> , 2013, 339, 1207-1210.	6.0	439
8	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
9	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
10	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
11	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
12	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
13	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
14	Sulfolipid Biosynthesis and Function in Plants. <i>Advances in Photosynthesis and Respiration</i> , 2008, , 185-200.	1.0	15
15	Structural Basis of Enantioselective Inhibition of Cyclooxygenase-1 by S-Substituted Indomethacin Ethanolamides. <i>Journal of Biological Chemistry</i> , 2007, 282, 28096-28105.	1.6	87
16	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, 22254-22266.	1.6	341
17	Photoinduced Electron Transfers through π Bonds in Solution. <i>Advances in Chemical Physics</i> , 2007, , 645-666.	0.3	3
18	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

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19	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
20	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, 16117-16122.	3.3	282
21	Comparative Genomics of Two Closely Related Unicellular Thermo-Acidophilic Red Algae, <i>Galdieria sulphuraria</i> and <i>Cyanidioschyzon merolae</i> , Reveals the Molecular Basis of the Metabolic Flexibility of <i>Galdieria sulphuraria</i> and Significant Differences in Carbohydrate Metabolism of Both Algae. <i>Plant Physiology</i> , 2005, 137, 460-474.	2.3	184
22	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
23	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
24	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
25	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
26	Crystal Structure of Vancosaminyltransferase GtfD from the Vancomycin Biosynthetic Pathway: Interactions with Acceptor and Nucleotide Ligands. <i>Biochemistry</i> , 2004, 43, 5170-5180.	1.2	122
27	The Structure of Mammalian Cyclooxygenases. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2003, 32, 183-206.	18.3	119
28	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, 9238-9243.	3.3	144
29	Crystallization of Membrane Proteins. , 2003, , 27-54.		0
30	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
31	The structures of prostaglandin endoperoxide H synthases-1 and -2. <i>Prostaglandins and Other Lipid Mediators</i> , 2002, 68-69, 129-152.	1.0	121
32	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
33	Detergents as Tools in Membrane Biochemistry. <i>Journal of Biological Chemistry</i> , 2001, 276, 32403-32406.	1.6	483
34	Prostaglandin Endoperoxide H Synthase-1. <i>Journal of Biological Chemistry</i> , 2001, 276, 10347-10357.	1.6	118
35	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
36	Membrane Protein Structural Biology Minireview Series. <i>Journal of Biological Chemistry</i> , 2001, 276, 32393-32394.	1.6	11

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37	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, 3941-3946.	1.6	135
38	Mutational and X-ray Crystallographic Analysis of the Interaction of Dihomo- ¹³ -linolenic Acid with Prostaglandin Endoperoxide H Synthases. <i>Journal of Biological Chemistry</i> , 2001, 276, 10358-10365.	1.6	44
39	Substrate Interactions in the Cyclooxygenase-1 Active Site. <i>Medical Science Symposia Series</i> , 2001, , 57-64.	0.0	0
40	Cyclooxygenases: Structural, Cellular, and Molecular Biology. <i>Annual Review of Biochemistry</i> , 2000, 69, 145-182.	5.0	2,636
41	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
42	Interaction of Nitric Oxide with Prostaglandin Endoperoxide H Synthase-1: Implications for Fe ²⁺ /His Bond Cleavage in Heme Proteins. <i>Journal of Physical Chemistry B</i> , 2000, 104, 10844-10850.	1.2	22
43	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
44	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
45	The structure of mammalian hexokinase-1. <i>Nature Structural Biology</i> , 1998, 5, 555-560.	9.7	111
46	Membrane protein structures: the known world expands. <i>Current Opinion in Biotechnology</i> , 1998, 9, 344-349.	3.3	8
47	Membrane proteins Structure, assembly, and function: a panoply of progress. <i>Current Opinion in Structural Biology</i> , 1997, 7, 533-536.	2.6	6
48	Synthesis and Use of Iodinated Nonsteroidal Antiinflammatory Drug Analogs as Crystallographic Probes of the Prostaglandin H ₂ Synthase Cyclooxygenase Active Site. <i>Biochemistry</i> , 1996, 35, 7330-7340.	1.2	172
49	Prostaglandin Endoperoxide H Synthases (Cyclooxygenases)-1 and 2. <i>Journal of Biological Chemistry</i> , 1996, 271, 33157-33160.	1.6	1,614
50	Strategies for crystallizing membrane proteins. <i>Journal of Bioenergetics and Biomembranes</i> , 1996, 28, 13-27.	1.0	114
51	The cyclooxygenase-2 structure: new drugs for an old target?. <i>Nature Structural Biology</i> , 1996, 3, 897-901.	9.7	32
52	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, 2179-2184.	1.6	148
53	PRELIMINARY X-RAY INVESTIGATIONS INTO NSAID-BINDING TO CYCLOOXYGENASE-1. <i>American Journal of Therapeutics</i> , 1995, 2, 611-615.	0.5	1
54	The atomic structure of visual rhodopsin: How and when?. <i>Behavioral and Brain Sciences</i> , 1995, 18, 474-475.	0.4	0

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55	The structural basis of aspirin activity inferred from the crystal structure of inactivated prostaglandin H2 synthase. <i>Nature Structural Biology</i> , 1995, 2, 637-643.	9.7	442
56	The X-ray crystal structure of the membrane protein prostaglandin H2 synthase-1. <i>Nature</i> , 1994, 367, 243-249.	13.7	1,256
57	The art of crystallizing membrane proteins. <i>Methods</i> , 1990, 1, 57-69.	1.9	79
58	[25] Isolation and crystallization of bacterial porin. <i>Methods in Enzymology</i> , 1986, 125, 309-328.	0.4	158
59	Molecular asymmetry in an abortive ternary complex of lobster glyceraldehyde-3-phosphate dehydrogenase. <i>Biochemistry</i> , 1977, 16, 4393-4398.	1.2	27
60	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
61	Studies on coenzyme binding to glyceraldehyde-3-phosphate dehydrogenase. <i>Journal of Molecular Biology</i> , 1976, 107, 577-584.	2.0	35