Elsa D. Garcin

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Structure of the [NiFe] Hydrogenase Active Site:â€‰ Evidence for Biologically Uncommon Fe Ligands. Journal of the American Chemical Society, 1996, 118, 12989-12996.	13.7	657
2	The crystal structure of a reduced [NiFeSe] hydrogenase provides an image of the activated catalytic center. Structure, 1999, 7, 557-566.	3.3	448
3	Structural differences between the ready and unready oxidized states of [NiFe] hydrogenases. Journal of Biological Inorganic Chemistry, 2005, 10, 239-249.	2.6	291
4	Structural Basis for Isozyme-specific Regulation of Electron Transfer in Nitric-oxide Synthase. Journal of Biological Chemistry, 2004, 279, 37918-37927.	3.4	244
5	Anchored plasticity opens doors for selective inhibitor design in nitric oxide synthase. Nature Chemical Biology, 2008, 4, 700-707.	8.0	205
6	Biphasic Coupling of Neuronal Nitric Oxide Synthase Phosphorylation to the NMDA Receptor Regulates AMPA Receptor Trafficking and Neuronal Cell Death. Journal of Neuroscience, 2007, 27, 3445-3455.	3.6	143
7	Halophilic Adaptation:Â Novel Solvent Protein Interactions Observed in the 2.9 and 2.6 Å… Resolution Structures of the Wild Type and a Mutant of Malate Dehydrogenase fromHaloarcula marismortuiâ€¡. Biochemistry, 2000, 39, 992-1000.	2.5	104
8	DNA apurinic-apyrimidinic site binding and excision by endonuclease IV. Nature Structural and Molecular Biology, 2008, 15, 515-522.	8.2	93
9	Hydrogenase: A hydrogen-metabolizing enzyme. What do the crystal structures tell us about its mode of action?. Biochimie, 1997, 79, 661-666.	2.6	65
10	Conformational Changes in Nitric Oxide Synthases Induced by Chlorzoxazone and Nitroindazoles:â€‰ Crystallographic and Computational Analyses of Inhibitor Potency. Biochemistry, 2002, 41, 13915-13925.	2.5	63
11	Surface Charge Interactions of the FMN Module Govern Catalysis by Nitric-oxide Synthase. Journal of Biological Chemistry, 2006, 281, 36819-36827.	3.4	53
12	The Three Nitric-oxide Synthases Differ in Their Kinetics of Tetrahydrobiopterin Radical Formation, Heme-Dioxy Reduction, and Arginine Hydroxylation. Journal of Biological Chemistry, 2005, 280, 8929-8935.	3.4	49
13	A Dimer Interface Mutation in Glyceraldehyde-3-Phosphate Dehydrogenase Regulates Its Binding to AU-rich RNA. Journal of Biological Chemistry, 2015, 290, 1770-1785.	3.4	47
14	D-Glyceraldehyde-3-Phosphate Dehydrogenase Structure and Function. Sub-Cellular Biochemistry, 2017, 83, 413-453.	2.4	44
15	GAPDH as a model non-canonical AU-rich RNA binding protein. Seminars in Cell and Developmental Biology, 2019, 86, 162-173.	5.0	40
16	Interfacial Residues Promote an Optimal Alignment of the Catalytic Center in Human Soluble Guanylate Cyclase: Heterodimerization Is Required but Not Sufficient for Activity. Biochemistry, 2014, 53, 2153-2165.	2.5	39
17	The sweet side of <scp>RNA</scp> regulation: glyceraldehydeâ€3â€phosphate dehydrogenase as a noncanonical <scp>RNA</scp>â€binding protein. Wiley Interdisciplinary Reviews RNA, 2016, 7, 53-70.	6.4	39
18	C-terminal Tail Residue Arg1400 Enables NADPH to Regulate Electron Transfer in Neuronal Nitric-oxide Synthase. Journal of Biological Chemistry, 2005, 280, 39208-39219.	3.4	35

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19	Small-angle X-ray scattering method to characterize molecular interactions: Proof of concept. Scientific Reports, 2015, 5, 12085.	3.3	33
20	YC-1 Binding to the Î² Subunit of Soluble Guanylyl Cyclase Overcomes Allosteric Inhibition by the Î± Subunit. Biochemistry, 2014, 53, 101-114.	2.5	32
21	Regulation of soluble guanylate cyclase by matricellular thrombospondins: implications for blood flow. Frontiers in Physiology, 2014, 5, 134.	2.8	29
22	Quantitative high-throughput screening assays for the discovery and development of SIRPÎ±-CD47 interaction inhibitors. PLoS ONE, 2019, 14, e0218897.	2.5	28
23	Structure/function of the soluble guanylyl cyclase catalytic domain. Nitric Oxide - Biology and Chemistry, 2018, 77, 53-64.	2.7	24
24	Structural bases for the catalytic mechanism of NiFe hydrogenase. Pure and Applied Chemistry, 1998, 70, 25-31.	1.9	23
25	Heat Shock Protein 90 Associates with the Per-Arnt-Sim Domain of Heme-free Soluble Guanylate Cyclase. Journal of Biological Chemistry, 2015, 290, 21615-21628.	3.4	22
26	Structural bases for the catalytic mechanism of [NiFe] hydrogenases. Biochemical Society Transactions, 1998, 26, 396-401.	3.4	18
27	Lys842 in Neuronal Nitric-oxide Synthase Enables the Autoinhibitory Insert to Antagonize Calmodulin Binding, Increase FMN Shielding, and Suppress Interflavin Electron Transfer. Journal of Biological Chemistry, 2010, 285, 3064-3075.	3.4	14
28	Targeting Conformational Activation of CDK2 Kinase. Biotechnology Journal, 2017, 12, 1600531.	3.5	13
29	A new paradigm for gaseous ligand selectivity of hemoproteins highlighted by soluble guanylate cyclase. Journal of Inorganic Biochemistry, 2021, 214, 111267.	3.5	12
30	Synergistic mutations in soluble guanylyl cyclase (sGC) reveal a key role for interfacial regions in the sGC activation mechanism. Journal of Biological Chemistry, 2019, 294, 18451-18464.	3.4	8
31	A fusion of the Bacteroides fragilis ferrous iron import proteins reveals a role for FeoA in stabilizing GTP-bound FeoB. Journal of Biological Chemistry, 2022, 298, 101808.	3.4	6
32	Determining the Effect of Dithiolethione Compounds on the Activity of Human Glyceraldehyde-3-Phosphate Dehydrogenase. Biophysical Journal, 2013, 104, 232a.	0.5	0
33	Biochemical and structural characterization of the activation of soluble Guanylate Cyclase. FASEB Journal, 2011, 25, 959.4.	0.5	0
34	The expression, purification, and crystallization of the HNOX regulatory domain of bovine soluble guanylate cyclase. FASEB Journal, 2011, 25, 959.5.	0.5	0
35	Structural basis for the regulation of endothelinâ€1 mRNA stability by glyceraldehydeâ€3â€phosphate dehydrogenase. FASEB Journal, 2012, 26, 951.5.	0.5	0
36	Structural studies of the regulatory domain of bovine soluble guanylate cyclase. FASEB Journal, 2012, 26, 573.6.	0.5	0