Giorgio Giardina

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Crystal structure of<i>Aspergillus fumigatus</i><scp>AroH</scp>, an aromatic amino acid aminotransferase. Proteins: Structure, Function and Bioinformatics, 2022, 90, 435-442.	2.6	2
2	A conserved scaffold with heterogeneous metal ion binding site: the multifaceted example of HD-GYP proteins. Coordination Chemistry Reviews, 2022, 450, 214228.	18.8	4
3	Cytosolic localization and <i>inâ€‰vitro</i> assembly of human <i>deâ€‰novo</i> thymidylate synthesis complex. FEBS Journal, 2022, 289, 1625-1649.	4.7	3
4	Structural dynamics shape the fitness window of alanine:glyoxylate aminotransferase. Protein Science, 2022, 31, e4303.	7.6	6
5	Modelling of SHMT1 riboregulation predicts dynamic changes of serine and glycine levels across cellular compartments. Computational and Structural Biotechnology Journal, 2021, 19, 3034-3041.	4.1	9
6	Studying GGDEF Domain in the Act: Minimize Conformational Frustration to Prevent Artefacts. Life, 2021, 11, 31.	2.4	4
7	Importance of amino acids in brain parenchyma invasion by cancer cells. Oncoscience, 2021, 8, 47-49.	2.2	0
8	The Emerging Role of Amino Acids of the Brain Microenvironment in the Process of Metastasis Formation. Cancers, 2021, 13, 2891.	3.7	4
9	Metformin Is a Pyridoxal-5â€²-phosphate (PLP)-Competitive Inhibitor of SHMT2. Cancers, 2021, 13, 4009.	3.7	15
10	Cytosolic serine hydroxymethyltransferase controls lung adenocarcinoma cells migratory ability by modulating AMP kinase activity. Cell Death and Disease, 2020, 11, 1012.	6.3	11
11	Structure and Function of HD-GYP Phosphodiesterases. , 2020, , 65-78.		2
12	N-Acetylcysteine Serves as Substrate of 3-Mercaptopyruvate Sulfurtransferase and Stimulates Sulfide Metabolism in Colon Cancer Cells. Cells, 2019, 8, 828.	4.1	29
13	Linking Infection and Prostate Cancer Progression: Toll-like Receptor3 Stimulation Rewires Glucose Metabolism in Prostate Cells. Anticancer Research, 2019, 39, 5541-5549.	1.1	7
14	The moonlighting RNA-binding activity of cytosolic serine hydroxymethyltransferase contributes to control compartmentalization of serine metabolism. Nucleic Acids Research, 2019, 47, 4240-4254.	14.5	32
15	R180T variant of Î´â€ornithine aminotransferase associated with gyrate atrophy: biochemical, computational, Xâ€ray and <scp>NMR</scp> studies provide insight into its catalytic features. FEBS Journal, 2019, 286, 2787-2798.	4.7	6
16	Cycloserine enantiomers are reversible inhibitors of human alanine:glyoxylate aminotransferase: implications for Primary Hyperoxaluria type 1. Biochemical Journal, 2019, 476, 3751-3768.	3.7	7
17	Beyond nitrogen metabolism: nitric oxide, cyclic-di-GMP and bacterial biofilms. FEMS Microbiology Letters, 2018, 365, .	1.8	53
18	The catalytic activity of serine hydroxymethyltransferase is essential for <i>deÂ novo</i> nuclear <scp>dTMP</scp> synthesis in lung cancer cells. FEBS Journal, 2018, 285, 3238-3253.	4.7	28

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19	Differential inhibitory effect of a pyrazolopyran compound on human serine hydroxymethyltransferase-amino acid complexes. Archives of Biochemistry and Biophysics, 2018, 653, 71-79.	3.0	14
20	Insights into the GTPâ€dependent allosteric control of câ€diâ€GMP hydrolysis from the crystal structure of PA0575 protein from <i>PseudomonasÂaeruginosa</i>. FEBS Journal, 2018, 285, 3815-3834.	4.7	31
21	Radiation damage at the active site of human alanine:glyoxylate aminotransferase reveals that the cofactor position is finely tuned during catalysis. Scientific Reports, 2017, 7, 11704.	3.3	17
22	Glucose Metabolism in the Progression of Prostate Cancer. Frontiers in Physiology, 2017, 8, 97.	2.8	98
23	New Insights Emerging from Recent Investigations on Human Group II Pyridoxal 5â€™-Phosphate Decarboxylases. Current Medicinal Chemistry, 2017, 24, 226-244.	2.4	13
24	<i>In Silico</i> Discovery and <i>In Vitro</i> Validation of Catechol-Containing Sulfonohydrazide Compounds as Potent Inhibitors of the Diguanylate Cyclase PleD. Journal of Bacteriology, 2016, 198, 147-156.	2.2	42
25	CHAPTER 4. Nitrite Reductase â€“ Cytochrome <i>cd</i>1. 2-Oxoglutarate-Dependent Oxygenases, 2016, , 59-90.	0.8	2
26	A pyrazolopyran derivative preferentially inhibits the activity of human cytosolic serine hydroxymethyltransferase and induces cell death in lung cancer cells. Oncotarget, 2016, 7, 4570-4583.	1.8	45
27	How pyridoxal 5â€²â€phosphate differentially regulates human cytosolic and mitochondrial serine hydroxymethyltransferase oligomeric state. FEBS Journal, 2015, 282, 1225-1241.	4.7	78
28	Screening and In Vitro Testing of Antifolate Inhibitors of Human Cytosolic Serine Hydroxymethyltransferase. ChemMedChem, 2015, 10, 490-497.	3.2	34
29	Structural Basis of Functional Diversification of the HD-GYP Domain Revealed by the Pseudomonas aeruginosa PA4781 Protein, Which Displays an Unselective Bimetallic Binding Site. Journal of Bacteriology, 2015, 197, 1525-1535.	2.2	33
30	Synthesis of Triazole-Linked Analogues of c-di-GMP and Their Interactions with Diguanylate Cyclase. Journal of Medicinal Chemistry, 2015, 58, 8269-8284.	6.4	34
31	SHMT1 knockdown induces apoptosis in lung cancer cells by causing uracil misincorporation. Cell Death and Disease, 2014, 5, e1525-e1525.	6.3	88
32	Distalâ€“proximal crosstalk in the heme binding pocket of the NO sensor DNR. BioMetals, 2014, 27, 763-773.	4.1	13
33	Nitrosylation of c heme in cd1-nitrite reductase is enhanced during catalysis. Biochemical and Biophysical Research Communications, 2014, 451, 449-454.	2.1	0
34	Probing the activity of diguanylate cyclases and c-di-GMP phosphodiesterases in real-time by CD spectroscopy. Nucleic Acids Research, 2013, 41, e79-e79.	14.5	42
35	C-di-GMP Hydrolysis by Pseudomonas aeruginosa HD-GYP Phosphodiesterases: Analysis of the Reaction Mechanism and Novel Roles for pGpG. PLoS ONE, 2013, 8, e74920.	2.5	53
36	Investigating the Allosteric Regulation of YfiN from Pseudomonas aeruginosa: Clues from the Structure of the Catalytic Domain. PLoS ONE, 2013, 8, e81324.	2.5	45

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37	Crystal structure of Plasmodium falciparum thioredoxin reductase, a validated drug target. Biochemical and Biophysical Research Communications, 2012, 425, 806-811.	2.1	25
38	Unusual Heme Binding Properties of the Dissimilative Nitrate Respiration Regulator, a Bacterial Nitric Oxide Sensor. Antioxidants and Redox Signaling, 2012, 17, 1178-1189.	5.4	21
39	Nitrite and Nitrite Reductases: From Molecular Mechanisms to Significance in Human Health and Disease. Antioxidants and Redox Signaling, 2012, 17, 684-716.	5.4	61
40	Identification by Virtual Screening and In Vitro Testing of Human DOPA Decarboxylase Inhibitors. PLoS ONE, 2012, 7, e31610.	2.5	56
41	The catalytic mechanism of <i>Pseudomonas aeruginosa cd</i>1 nitrite reductase. Biochemical Society Transactions, 2011, 39, 195-200.	3.4	17
42	The <i>Pseudomonas aeruginosa</i> DNR transcription factor: light and shade of nitric oxide-sensing mechanisms. Biochemical Society Transactions, 2011, 39, 294-298.	3.4	26
43	Open conformation of human DOPA decarboxylase reveals the mechanism of PLP addition to Group II decarboxylases. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20514-20519.	7.1	91
44	The transcription factor DNR from Pseudomonas aeruginosa specifically requires nitric oxide and haem for the activation of a target promoter in Escherichia coli. Microbiology (United Kingdom), 2009, 155, 2838-2844.	1.8	47
45	Nitrite reduction: a ubiquitous function from a preâ€aerobic past. BioEssays, 2009, 31, 885-891.	2.5	13
46	A dramatic conformational rearrangement is necessary for the activation of DNR from <i>Pseudomonas aeruginosa</i>. Crystal structure of wildâ€type DNR. Proteins: Structure, Function and Bioinformatics, 2009, 77, 174-180.	2.6	27
47	XAS study of the active site of a bacterial heme-sensor. Journal of Physics: Conference Series, 2009, 190, 012202.	0.4	1
48	NO sensing in Pseudomonas aeruginosa: Structure of the Transcriptional Regulator DNR. Journal of Molecular Biology, 2008, 378, 1002-1015.	4.2	80
49	New insights into the activity of <i>Pseudomonas aeruginosa cd</i>1 nitrite reductase. Biochemical Society Transactions, 2008, 36, 1155-1159.	3.4	17
50	N-oxide sensing and denitrification: the DNR transcription factors. Biochemical Society Transactions, 2006, 34, 185-187.	3.4	15
51	N-oxide sensing in Pseudomonas aeruginosa: expression and preliminary characterization of DNR, an FNRâ€"CRP type transcriptional regulator. Biochemical Society Transactions, 2005, 33, 184-186.	3.4	7
52	Use of the Pd-PromotedExtended One-Pot (EOP) Synthetic Protocol for the Modular Construction of Poly-(arylene ethynylene)co-Polymers [?Ar?C?C?Ar??C?C?]n, Opto- and Electro-Responsive Materials for Advanced Technology. Advanced Synthesis and Catalysis, 2005, 347, 143-160.	4.3	19
53	Use of the Extended One-Pot (EOP) Procedure for the Preparation of Ethynylated Thiophene Derivatives and Related Palladiumâ^'Ethynylthiophene Organometallic Oligomers. Organometallics, 2001, 20, 4360-4368.	2.3	29
54	An efficientone-pot access to poly(arylene ethynylene) homopolymers: Use of the Bu3Sn?moiety as a recyclable carrier to introduce the ethynyl unit into the chain. Journal of Polymer Science Part A, 2000, 38, 2603-2621.	2.3	19