Serena Rinaldo

List of Publications by Year
in descending order

64 papers	1,756 citations	236925 25 h-index	315739 38 g-index
66 all docs	66 docs citations	66 times ranked	2346 citing authors

#	Article	IF	Citations
1	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
2	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
3	Nutrient Sensing and Biofilm Modulation: The Example of L-arginine in Pseudomonas. International Journal of Molecular Sciences, 2022, 23, 4386.	4.1	22
4	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
5	Studying GGDEF Domain in the Act: Minimize Conformational Frustration to Prevent Artefacts. Life, 2021, 11, 31.	2.4	4
6	Importance of amino acids in brain parenchyma invasion by cancer cells. Oncoscience, 2021, 8, 47-49.	2.2	0
7	High-Fat Diet Leads to Reduced Protein O-GlcNAcylation and Mitochondrial Defects Promoting the Development of Alzheimerâ€™s Disease Signatures. International Journal of Molecular Sciences, 2021, 22, 3746.	4.1	17
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	Determining folding and binding properties of the Câ€terminal SH2 domain of SHP2. Protein Science, 2021, 30, 2385-2395.	7.6	6
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	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
13	Fractalkine Modulates Microglia Metabolism in Brain Ischemia. Frontiers in Cellular Neuroscience, 2019, 13, 414.	3.7	51
14	Structural and functional investigation of the Small Ribosomal Subunit Biogenesis GTP ase A (RsgA) from PseudomonasÂaeruginosa. FEBS Journal, 2019, 286, 4245-4260.	4.7	9
15	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
16	Beyond nitrogen metabolism: nitric oxide, cyclic-di-GMP and bacterial biofilms. FEMS Microbiology Letters, 2018, 365, .	1.8	53
17	The catalytic activity of serine hydroxymethyltransferase is essential for <i>deÂnovo</i> nuclear <scp>dTMP</scp> synthesis in lung cancer cells. FEBS Journal, 2018, 285, 3238-3253.	4.7	28
18	A novel bacterial <scp>l</scp>â€arginine sensor controlling câ€diâ€GMP levels in <i>Pseudomonas aeruginosa</i>. Proteins: Structure, Function and Bioinformatics, 2018, 86, 1088-1096.	2.6	31

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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	Glucose Metabolism in the Progression of Prostate Cancer. Frontiers in Physiology, 2017, 8, 97.	2.8	98
22	Identification of small molecule inhibitors of the Aurora-A/TPX2 complex. Oncotarget, 2017, 8, 32117-32133.	1.8	23
23	Novel genetic tools to tackle c-di-GMP-dependent signalling in Pseudomonas aeruginosa. Journal of Applied Microbiology, 2016, 120, 205-217.	3.1	15
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	The phytotoxin fusicoccin differently regulates 14-3-3 proteins association to mode III targets. IUBMB Life, 2014, 66, 52-62.	3.4	31
35	The immunosuppressive drug azathioprine inhibits biosynthesis of the bacterial signal molecule cyclic-di-GMP by interfering with intracellular nucleotide pool availability. Applied Microbiology and Biotechnology, 2013, 97, 7325-7336.	3.6	72
36	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

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37	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
38	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
39	Solvent Accessibility in the Distal Heme Pocket of the Nitrosyl d₁-Heme Complex of <i>Pseudomonas stutzeri</i> cd₁ Nitrite Reductase. Biochemistry, 2012, 51, 9192-9201.	2.5	3
40	Interactions outside the Boundaries of the Canonical Binding Groove of a PDZ Domain Influence Ligand Binding. Biochemistry, 2012, 51, 8971-8979.	2.5	21
41	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
42	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
43	Dynamic Hydrogen-Bonding Network in the Distal Pocket of the Nitrosyl Complex of Pseudomonas aeruginosa cd₁ Nitrite Reductase. Journal of the American Chemical Society, 2011, 133, 3043-3055.	13.7	32
44	Observation of fast release of NO from ferrous <i>d</i>1 haem allows formulation of a unified reaction mechanism for cytochrome <i>cd</i>1 nitrite reductases. Biochemical Journal, 2011, 435, 217-225.	3.7	28
45	The catalytic mechanism of <i>Pseudomonas aeruginosa cd</i>1 nitrite reductase. Biochemical Society Transactions, 2011, 39, 195-200.	3.4	17
46	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
47	In silico and in vitro validation of serine hydroxymethyltransferase as a chemotherapeutic target of the antifolate drug pemetrexed. European Journal of Medicinal Chemistry, 2011, 46, 1616-1621.	5.5	52
48	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
49	Nitrite reduction: a ubiquitous function from a preâ€aerobic past. BioEssays, 2009, 31, 885-891.	2.5	13
50	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
51	Heme d1 Nitrosyl Complex of cd1 Nitrite Reductase Studied by High-Field-Pulse Electron Paramagnetic Resonance Spectroscopy. Inorganic Chemistry, 2009, 48, 3913-3915.	4.0	11
52	Intramolecular Electron Transfer in Pseudomonas aeruginosa cd1 Nitrite Reductase: Thermodynamics and Kinetics. Biophysical Journal, 2009, 96, 2849-2856.	0.5	29
53	XAS study of the active site of a bacterial heme-sensor. Journal of Physics: Conference Series, 2009, 190, 012202.	0.4	1
54	NO sensing in Pseudomonas aeruginosa: Structure of the Transcriptional Regulator DNR. Journal of Molecular Biology, 2008, 378, 1002-1015.	4.2	80

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55	Ancient hemes for ancient catalysts. Plant Signaling and Behavior, 2008, 3, 135-136.	2.4	9
56	New insights into the activity of <i>Pseudomonas aeruginosa cd</i>1 nitrite reductase. Biochemical Society Transactions, 2008, 36, 1155-1159.	3.4	17
57	Fast Dissociation of Nitric Oxide from Ferrous Pseudomonas aeruginosa cd1 Nitrite Reductase. Journal of Biological Chemistry, 2007, 282, 14761-14767.	3.4	46
58	Nitrite controls the release of nitric oxide in Pseudomonas aeruginosa cd1 nitrite reductase. Biochemical and Biophysical Research Communications, 2007, 363, 662-666.	2.1	20
59	Nitrite Reductases in Denitrification. , 2007, , 37-55.		33
60	Reaction of Aplysia limacina metmyoglobin with hydrogen peroxide. Dalton Transactions, 2007, , 840.	3.3	30
61	N-oxide sensing and denitrification: the DNR transcription factors. Biochemical Society Transactions, 2006, 34, 185-187.	3.4	15
62	Critical role of His369 in the reactivity of Pseudomonas aeruginosa cytochrome cd1nitrite reductase with oxygen. FEBS Journal, 2006, 273, 4495-4503.	4.7	3
63	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
64	NO Production by Pseudomonas aeruginosa cd1 Nitrite Reductase. IUBMB Life, 2004, 55, 617-621.	3.4	19