

Gianni Colotti

List of Publications by Year in descending order

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97
papers

3,100
citations

136885

32
h-index

175177

52
g-index

97
all docs

97
docs citations

97
times ranked

4037
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Basis of Antimony Treatment in Leishmaniasis. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 2603-2612.	2.9	244
2	Metal regulation of siderophore synthesis in <i>Pseudomonas aeruginosa</i> and functional effects of siderophore-metal complexes. <i>Applied and Environmental Microbiology</i> , 1992, 58, 2886-2893.	1.4	156
3	A gold-containing drug against parasitic polyamine metabolism: the X-ray structure of trypanothione reductase from <i>Leishmania infantum</i> in complex with auranofin reveals a dual mechanism of enzyme inhibition. <i>Amino Acids</i> , 2012, 42, 803-811.	1.2	148
4	Polyamine metabolism in <i>Leishmania</i> : from arginine to trypanothione. <i>Amino Acids</i> , 2011, 40, 269-285.	1.2	136
5	Taxanes in cancer treatment: Activity, chemoresistance and its overcoming. <i>Drug Resistance Updates</i> , 2021, 54, 100742.	6.5	121
6	Not only P-glycoprotein: Amplification of the ABCB1- containing chromosome region 7q21 confers multidrug resistance upon cancer cells by coordinated overexpression of an assortment of resistance-related proteins. <i>Drug Resistance Updates</i> , 2017, 32, 23-46.	6.5	109
7	Inhibitory Effect of Silver Nanoparticles on Trypanothione Reductase Activity and <i>Leishmania infantum</i> Proliferation. <i>ACS Medicinal Chemistry Letters</i> , 2011, 2, 230-233.	1.3	96
8	Targeting Trypanothione Reductase, a Key Enzyme in the Redox Trypanosomatid Metabolism, to Develop New Drugs against Leishmaniasis and Trypanosomiasis. <i>Molecules</i> , 2020, 25, 1924.	1.7	74
9	Polyamine-trypanothione pathway: an update. <i>Future Medicinal Chemistry</i> , 2017, 9, 61-77.	1.1	71
10	The crystal structure of the sorcin calcium binding domain provides a model of Ca ²⁺ -dependent processes in the full-length protein. <i>Journal of Molecular Biology</i> , 2002, 317, 447-458.	2.0	64
11	Inhibition of <i>Leishmania infantum</i> Trypanothione Reductase by Azole-Based Compounds: a Comparative Analysis with Its Physiological Substrate by X-ray Crystallography. <i>ChemMedChem</i> , 2013, 8, 1175-1183.	1.6	63
12	The Crystal Structures of the Tryparedoxin-Tryparedoxin Peroxidase Couple Unveil the Structural Determinants of <i>Leishmania</i> Detoxification Pathway. <i>PLoS Neglected Tropical Diseases</i> , 2012, 6, e1781.	1.3	61
13	Sorcin, a Calcium Binding Protein Involved in the Multidrug Resistance Mechanisms in Cancer Cells. <i>Molecules</i> , 2014, 19, 13976-13989.	1.7	61
14	Selective delivery of doxorubicin by novel stimuli-sensitive nano-ferritins overcomes tumor refractoriness. <i>Journal of Controlled Release</i> , 2016, 239, 10-18.	4.8	60
15	Inhibition of <i>Leishmania infantum</i> trypanothione reductase by diaryl sulfide derivatives. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017, 32, 304-310.	2.5	60
16	Structure-based discovery of the first non-covalent inhibitors of <i>Leishmania</i> major tryparedoxin peroxidase by high throughput docking. <i>Scientific Reports</i> , 2015, 5, 9705.	1.6	58
17	Identification of chalcone-based antileishmanial agents targeting trypanothione reductase. <i>European Journal of Medicinal Chemistry</i> , 2018, 152, 527-541.	2.6	57
18	Structural insights into the enzymes of the trypanothione pathway: targets for antileishmaniasis drugs. <i>Future Medicinal Chemistry</i> , 2013, 5, 1861-1875.	1.1	52

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19	Identification and binding mode of a novel Leishmania Trypanothione reductase inhibitor from high throughput screening. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006969.	1.3	51
20	GOLPH3 Is Essential for Contractile Ring Formation and Rab11 Localization to the Cleavage Site during Cytokinesis in <i>Drosophila melanogaster</i> . <i>PLoS Genetics</i> , 2014, 10, e1004305.	1.5	49
21	The multiple cellular functions of the oncoprotein Golgi phosphoprotein 3. <i>Oncotarget</i> , 2015, 6, 3493-3506.	0.8	47
22	Structural basis of Sorcin-mediated calcium-dependent signal transduction. <i>Scientific Reports</i> , 2015, 5, 16828.	1.6	46
23	Activation of the cardiac Na ⁺ -Ca ²⁺ exchanger by sorcin via the interaction of the respective Ca ²⁺ -binding domains. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 49, 132-141.	0.9	45
24	Sorcin Links Calcium Signaling to Vesicle Trafficking, Regulates Polo-Like Kinase 1 and Is Necessary for Mitosis. <i>PLoS ONE</i> , 2014, 9, e85438.	1.1	43
25	The isolated carboxy-terminal domain of human mitochondrial leucyl-tRNA synthetase rescues the pathological phenotype of mitochondrial tRNA mutations in human cells. <i>EMBO Molecular Medicine</i> , 2014, 6, 169-182.	3.3	43
26	Binding of doxorubicin to Sorcin impairs cell death and increases drug resistance in cancer cells. <i>Cell Death and Disease</i> , 2017, 8, e2950-e2950.	2.7	41
27	The presence of glutamate residues on the PAS sequence of the stimuli-sensitive nano-ferritin improves in vivo biodistribution and mitoxantrone encapsulation homogeneity. <i>Journal of Controlled Release</i> , 2018, 275, 177-185.	4.8	41
28	Molecular basis for the impaired function of the natural F112L sorcin mutant: X-ray crystal structure, calcium affinity, and interaction with annexin VII and the ryanodine receptor. <i>FASEB Journal</i> , 2008, 22, 295-306.	0.2	40
29	Structure-Function Relationships in Sorcin, a Member of the Penta EF-Hand Family. Interaction of Sorcin Fragments with the Ryanodine Receptor and an <i>Escherichia coli</i> Model System. <i>Biochemistry</i> , 2000, 39, 658-666.	1.2	39
30	Cooperative Oxygen Binding to <i>Scapharca inaequalis</i> Hemoglobin in the Crystal. <i>Journal of Biological Chemistry</i> , 1996, 271, 3627-3632.	1.6	37
31	Mutation of Residue Phe97 to Leu Disrupts the Central Allosteric Pathway in <i>Scapharca</i> Dimeric Hemoglobin. <i>Journal of Biological Chemistry</i> , 1997, 272, 13171-13179.	1.6	36
32	Trypanothione Reductase from <i>Leishmania infantum</i> : Cloning, Expression, Purification, Crystallization and Preliminary X-Ray Data Analysis. <i>Protein and Peptide Letters</i> , 2009, 16, 196-200.	0.4	36
33	Information Transfer in the Penta-EF-hand Protein Sorcin Does Not Operate via the Canonical Structural/Functional Pairing. <i>Journal of Biological Chemistry</i> , 2003, 278, 24921-24928.	1.6	34
34	The W105G and W99G Sorcin Mutants Demonstrate the Role of the D Helix in the Ca ²⁺ -Dependent Interaction with Annexin VII and the Cardiac Ryanodine Receptor. <i>Biochemistry</i> , 2006, 45, 12519-12529.	1.2	33
35	Metal-Based Compounds as Prospective Antileishmanial Agents: Inhibition of Trypanothione Reductase by Selected Gold Complexes. <i>ChemMedChem</i> , 2013, 8, 1634-1637.	1.6	32
36	Green tea catechins can bind and modify ERp57/PDIA3 activity. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 2671-2682.	1.1	32

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37	Targeting Polyamine Metabolism for Finding New Drugs Against Leishmaniasis: A Review. <i>Mini-Reviews in Medicinal Chemistry</i> , 2015, 15, 243-252.	1.1	30
38	A Small-Molecule Targeting the MicroRNA Binding Domain of Argonaute 2 improves the Retinoic Acid Differentiation Response of the Acute Promyelocytic Leukemia Cell Line NB4. <i>ACS Chemical Biology</i> , 2014, 9, 1674-1679.	1.6	29
39	Sorcini is an early marker of neurodegeneration, Ca ²⁺ dysregulation and endoplasmic reticulum stress associated to neurodegenerative diseases. <i>Cell Death and Disease</i> , 2020, 11, 861.	2.7	29
40	Applying Quality and Project Management methodologies in biomedical research laboratories: a public research network's case study. <i>Accreditation and Quality Assurance</i> , 2015, 20, 203-213.	0.4	27
41	Inventory of the Proteins in <i>Neisseria meningitidis</i> Serogroup B Strain MC58. <i>Journal of Proteome Research</i> , 2005, 4, 1361-1370.	1.8	25
42	Molecular characterization of nitrite reductase gene (<i>aniA</i>) and gene product in <i>Neisseria meningitidis</i> isolates: Is <i>aniA</i> essential for meningococcal survival?. <i>IUBMB Life</i> , 2008, 60, 629-636.	1.5	25
43	Complex modulation of L-type Ca ²⁺ current inactivation by sorcini in isolated rabbit cardiomyocytes. <i>Pflügers Archiv European Journal of Physiology</i> , 2009, 457, 1049-1060.	1.3	25
44	Small Molecule Inhibitors of KDM5 Histone Demethylases Increase the Radiosensitivity of Breast Cancer Cells Overexpressing JARID1B. <i>Molecules</i> , 2019, 24, 1739.	1.7	25
45	Roles of Sorcini in Drug Resistance in Cancer: One Protein, Many Mechanisms, for a Novel Potential Anticancer Drug Target. <i>Cancers</i> , 2020, 12, 887.	1.7	25
46	The X-ray structure of <i>N-methyltryptophan oxidase</i> reveals the structural determinants of substrate specificity. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 71, 2065-2075.	1.5	24
47	Identification of small molecule inhibitors of the Aurora-A/TPX2 complex. <i>Oncotarget</i> , 2017, 8, 32117-32133.	0.8	23
48	Toward a Drug Against All Kinetoplastids: From LeishBox to Specific and Potent Trypanothione Reductase Inhibitors. <i>Molecular Pharmaceutics</i> , 2018, 15, 3069-3078.	2.3	22
49	Sorcini modulates cardiac L-type Ca ²⁺ current by functional interaction with the β_1 subunit in rabbits. <i>Experimental Physiology</i> , 2008, 93, 1233-1238.	0.9	20
50	Glucose transportation in the brain and its impairment in Huntington disease: one more shade of the energetic metabolism failure?. <i>Amino Acids</i> , 2017, 49, 1147-1157.	1.2	20
51	Bacterial Expression Of <i>Scapharca</i> Dimeric Hemoglobin: A Simple Model System For Investigating Protein Cooperativity. <i>Protein Engineering, Design and Selection</i> , 1995, 8, 593-599.	1.0	19
52	Short peptides from leucyl-tRNA synthetase rescue disease-causing mitochondrial tRNA point mutations. <i>Human Molecular Genetics</i> , 2016, 25, 903-915.	1.4	19
53	Small molecules targeted to the microtubule-Hec1 interaction inhibit cancer cell growth through microtubule stabilization. <i>Oncogene</i> , 2018, 37, 231-240.	2.6	18
54	Quality-based model for Life Sciences research guidelines. <i>Accreditation and Quality Assurance</i> , 2016, 21, 221-230.	0.4	16

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55	Halothane Does Not Alter Ca ²⁺ Affinity of Troponin C. <i>Anesthesiology</i> , 1992, 76, 100-105.	1.3	15
56	Leishmania infantum trypanothione reductase is a promiscuous enzyme carrying an NADPH:O ₂ oxidoreductase activity shared by glutathione reductase. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 1891-1897.	1.1	15
57	Structure-guided approach to identify a novel class of anti-leishmaniasis diaryl sulfide compounds targeting the trypanothione metabolism. <i>Amino Acids</i> , 2020, 52, 247-259.	1.2	15
58	Metals and metal derivatives in medicine. <i>Mini-Reviews in Medicinal Chemistry</i> , 2013, 13, 211-21.	1.1	15
59	Use of Ferritin-Based Metal-Encapsulated Nanocarriers as Anticancer Agents. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 101.	1.3	13
60	Spiro-containing derivatives show antiparasitic activity against <i>Trypanosoma brucei</i> through inhibition of the trypanothione reductase enzyme. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008339.	1.3	13
61	The Apolar Distal Histidine Mutant (His69→Val) of the Homodimeric Scapharca Hemoglobin Is in an R-like Conformation. <i>Biochemistry</i> , 1998, 37, 5608-5615.	1.2	12
62	Metals and Metal Derivatives in Medicine. <i>Mini-Reviews in Medicinal Chemistry</i> , 2013, 13, 211-221.	1.1	12
63	Targeting the anti-apoptotic Bcl-2 family proteins: machine learning virtual screening and biological evaluation of new small molecules. <i>Theranostics</i> , 2022, 12, 2427-2444.	4.6	12
64	Metal- and metalloid-containing drugs for the treatment of trypanosomatid diseases. <i>Frontiers in Bioscience - Landmark</i> , 2018, 23, 954-966.	3.0	11
65	The central role of gut microbiota in drug metabolism and personalized medicine. <i>Future Medicinal Chemistry</i> , 2020, 12, 1197-1200.	1.1	11
66	N6L pseudopeptide interferes with nucleophosmin protein-protein interactions and sensitizes leukemic cells to chemotherapy. <i>Cancer Letters</i> , 2018, 412, 272-282.	3.2	10
67	Bioinformatics analysis of Ras homologue enriched in the striatum, a potential target for Huntington's disease therapy. <i>International Journal of Molecular Medicine</i> , 2019, 44, 2223-2233.	1.8	9
68	The yeast penta-EF protein Pef1p is involved in cation-dependent budding and cell polarization. <i>Molecular Microbiology</i> , 2007, 65, 1122-1138.	1.2	8
69	Use of organoids in medicinal chemistry: challenges on ethics and biosecurity. <i>Future Medicinal Chemistry</i> , 2019, 11, 1087-1090.	1.1	8
70	The desaturase from <i>Bacillus subtilis</i> , a promising tool for the selective olefination of phospholipids. <i>Journal of Biotechnology</i> , 2006, 121, 49-53.	1.9	7
71	Neuropilin-1 is required for endothelial cell adhesion to soluble vascular endothelial growth factor receptor 1. <i>FEBS Journal</i> , 2022, 289, 183-198.	2.2	7
72	Ligand-Linked Changes at the Subunit Interfaces in Scapharca Hemoglobins Probed through the Sulfhydryl Infrared Absorption. <i>Biochemistry</i> , 1999, 38, 10079-10083.	1.2	6

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73	Profiling calcium-dependent interactions between Sorcin and intrinsically disordered regions of human proteome. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129618.	1.1	6
74	Exogenous peptides are able to penetrate human cell and mitochondrial membranes, stabilize mitochondrial tRNA structures, and rescue severe mitochondrial defects. <i>FASEB Journal</i> , 2020, 34, 7675-7686.	0.2	6
75	<scp>ERp57</scp> chaperon protein protects neuronal cells from A β -induced toxicity. <i>Journal of Neurochemistry</i> , 2022, 162, 322-336.	2.1	6
76	Known Drugs Identified by Structure-Based Virtual Screening Are Able to Bind Sigma-1 Receptor and Increase Growth of Huntington Disease Patient-Derived Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1293.	1.8	5
77	Applying Design of Experiments Methodology to PEI Toxicity Assay on Neural Progenitor Cells. , 2015, , 45-63.		5
78	Identification of the Site of Ferrocyanide Binding Involved in the Intramolecular Electron Transfer Process to Oxidized Heme in Scapharca Dimeric Hemoglobin. <i>Archives of Biochemistry and Biophysics</i> , 1994, 311, 103-106.	1.4	4
79	Metals and Metal Derivatives in Medicine. <i>Mini-Reviews in Medicinal Chemistry</i> , 2013, 13, 211-221.	1.1	4
80	Surface Plasmon Resonance: A Useful Strategy for the Identification of Small Molecule Argonaute 2 Protein Binders. <i>Methods in Molecular Biology</i> , 2017, 1517, 223-237.	0.4	4
81	Discovery of the First Human Arylsulfatase A Reversible Inhibitor Impairing Mouse Oocyte Fertilization. <i>ACS Chemical Biology</i> , 2020, 15, 1349-1357.	1.6	4
82	Huntingtin Ubiquitination Mechanisms and Novel Possible Therapies to Decrease the Toxic Effects of Mutated Huntingtin. <i>Journal of Personalized Medicine</i> , 2021, 11, 1309.	1.1	4
83	Innovative Approach for a Classic Target: Fragment Screening on Trypanothione Reductase Reveals New Opportunities for Drug Design. <i>Frontiers in Molecular Biosciences</i> , 0, 9, .	1.6	4
84	Peptide-based development of PKA activators. <i>New Journal of Chemistry</i> , 2018, 42, 18585-18597.	1.4	2
85	Isolation and preliminary characterization of a human ϕ phage display TM -derived antibody against neural adhesion molecule-1 antigen interfering with fibroblast growth factor receptor-1 binding. <i>Human Antibodies</i> , 2021, 29, 63-84.	0.6	2
86	Structural basis of ubiquitination mediated by protein splicing in early Eukarya. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 129844.	1.1	2
87	Molecular bases of Sorcin-dependent resistance to chemotherapeutic agents. , 2018, , .		2
88	The homodimeric hemoglobin from Scapharca can be locked into new cooperative structures upon reaction of Cys92, located at the subunit interface, with organomercurials. <i>FEBS Letters</i> , 1992, 314, 481-485.	1.3	1
89	Two different crystal forms of sorcin, a penta-EF-hand Ca ²⁺ -binding protein. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 862-864.	2.5	1
90	Small Molecules Targeting the miRNA-Binding Domain of Argonaute 2: From Computer-Aided Molecular Design to RNA Immunoprecipitation. <i>Methods in Molecular Biology</i> , 2017, 1517, 211-221.	0.4	1

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91	NMR structure of a non-conjugatable, ADP-ribosylation associated, ubiquitin-like domain from <i>Tetrahymena thermophila</i> polyubiquitin locus. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 749-759.	1.1	1
92	L-type calcium current is modulated by sorcin in rabbit ventricular myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2006, 40, 926-927.	0.9	0
93	Cooperativity and Ligand-linked Polymerisation in Scapharca Tetrameric Haemoglobin. , 2008, , 107-119.		0
94	Sorcin. , 2016, , 1-9.		0
95	Sorcin. , 2018, , 5084-5093.		0
96	A22â€¦Sorcin rescues ca (II) dysregulation and endoplasmic reticulum stress in huntingtonâ€™s disease. , 2018, , .		0
97	Metals and Metal derivatives in Medicine. <i>Mini-Reviews in Medicinal Chemistry</i> , 2012, , .	1.1	0