Giulio Rastelli

List of Publications by Citations

Source: https://exaly.com/author-pdf/3580223/giulio-rastelli-publications-by-citations.pdf

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

121
papers4,882
citations34
h-index67
g-index152
ext. papers5,754
ext. citations5
avg, IF6.07
L-index

#	Paper	IF	Citations
121	Polypharmacology: challenges and opportunities in drug discovery. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 7874-87	8.3	571
120	Fast and accurate predictions of binding free energies using MM-PBSA and MM-GBSA. <i>Journal of Computational Chemistry</i> , 2010 , 31, 797-810	3.5	377
119	The 1,2,3-triazole ring as a bioisostere in medicinal chemistry. <i>Drug Discovery Today</i> , 2017 , 22, 1572-158	81 8.8	301
118	Molecular Docking: Shifting Paradigms in Drug Discovery. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	272
117	Crystal structure and molecular modeling of 17-DMAG in complex with human Hsp90. <i>Chemistry and Biology</i> , 2003 , 10, 361-8		163
116	Synthesis and biological activities of novel 17-aminogeldanamycin derivatives. <i>Bioorganic and Medicinal Chemistry</i> , 2004 , 12, 5317-29	3.4	144
115	Activity of polyphenolic crude extracts as scavengers of superoxide radicals and inhibitors of xanthine oxidase. <i>Planta Medica</i> , 1992 , 58, 342-4	3.1	137
114	Diabetes complications and their potential prevention: aldose reductase inhibition and other approaches. <i>Medicinal Research Reviews</i> , 1999 , 19, 3-23	14.4	133
113	Histone deacetylases: structural determinants of inhibitor selectivity. <i>Drug Discovery Today</i> , 2015 , 20, 718-35	8.8	126
112	Interaction of pyrimethamine, cycloguanil, WR99210 and their analogues with Plasmodium falciparum dihydrofolate reductase: structural basis of antifolate resistance. <i>Bioorganic and Medicinal Chemistry</i> , 2000 , 8, 1117-28	3.4	118
111	On the Integration of Drug Design Methods for Drug Repurposing. <i>Frontiers in Pharmacology</i> , 2017 , 8, 298	5.6	109
110	Binding estimation after refinement, a new automated procedure for the refinement and rescoring of docked ligands in virtual screening. <i>Chemical Biology and Drug Design</i> , 2009 , 73, 283-6	2.9	87
109	Validation of an automated procedure for the prediction of relative free energies of binding on a set of aldose reductase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2007 , 15, 7865-77	3.4	87
108	Synthesis, activity, and molecular modeling of a new series of tricyclic pyridazinones as selective aldose reductase inhibitors. <i>Journal of Medicinal Chemistry</i> , 1996 , 39, 4396-405	8.3	85
107	Docking and database screening reveal new classes of Plasmodium falciparum dihydrofolate reductase inhibitors. <i>Journal of Medicinal Chemistry</i> , 2003 , 46, 2834-45	8.3	84
106	1-Benzopyran-4-one antioxidants as aldose reductase inhibitors. <i>Journal of Medicinal Chemistry</i> , 1999 , 42, 1881-93	8.3	82
105	E helix displacement as a general approach for allosteric modulation of protein kinases. <i>Drug Discovery Today</i> , 2013 , 18, 407-14	8.8	76

(2009-2011)

104	Structure-based design of potent aromatase inhibitors by high-throughput docking. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 4006-17	8.3	75
103	Pharmacological approaches to the treatment of diabetic complications. <i>Expert Opinion on Therapeutic Patents</i> , 2000 , 10, 1245-1262	6.8	65
102	Application of a post-docking procedure based on MM-PBSA and MM-GBSA on single and multiple protein conformations. <i>European Journal of Medicinal Chemistry</i> , 2012 , 58, 431-40	6.8	57
101	New aldose reductase inhibitors as potential agents for the prevention of long-term diabetic complications. <i>Expert Opinion on Therapeutic Patents</i> , 1997 , 7, 843-858	6.8	55
100	Advances and applications of binding affinity prediction methods in drug discovery. <i>Biotechnology Advances</i> , 2012 , 30, 244-50	17.8	52
99	Discovery of new inhibitors of aldose reductase from molecular docking and database screening. <i>Bioorganic and Medicinal Chemistry</i> , 2002 , 10, 1437-50	3.4	52
98	Oxidative modification of aldose reductase induced by copper ion. Definition of the metal-protein interaction mechanism. <i>Journal of Biological Chemistry</i> , 2002 , 277, 42017-27	5.4	51
97	Molecular modeling and crystal structure of ERK2-hypothemycin complexes. <i>Journal of Structural Biology</i> , 2008 , 164, 18-23	3.4	50
96	Role of bifidobacteria in the hydrolysis of chlorogenic acid. <i>MicrobiologyOpen</i> , 2015 , 4, 41-52	3.4	44
95	Discovery of Multitarget Antivirals Acting on Both the Dengue Virus NS5-NS3 Interaction and the Host Src/Fyn Kinases. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 4964-75	8.3	44
94	Three-dimensional quantitative structure-activity relationship analysis of a set of Plasmodium falciparum dihydrofolate reductase inhibitors using a pharmacophore generation approach. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 4258-67	8.3	42
93	Structure-based discovery of the first allosteric inhibitors of cyclin-dependent kinase 2. <i>Cell Cycle</i> , 2014 , 13, 2296-305	4.7	41
92	Dual Kinase-Bromodomain Inhibitors in Anticancer Drug Discovery: A Structural and Pharmacological Perspective. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 9305-9320	8.3	39
91	Design and discovery of plasmepsin II inhibitors using an automated workflow on large-scale grids. <i>ChemMedChem</i> , 2009 , 4, 1164-73	3.7	38
90	Structure-based design of 7-carbamate analogs of geldanamycin. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 5016-21	2.9	38
89	Computational polypharmacology comes of age. Frontiers in Pharmacology, 2015, 6, 157	5.6	36
88	A rational approach to the design of flavones as xanthine oxidase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 1996 , 31, 693-699	6.8	34
87	Structure-based and in silico design of Hsp90 inhibitors. <i>ChemMedChem</i> , 2009 , 4, 1399-409	3.7	33

86	A Model of the Interaction of Substrates and Inhibitors with Xanthine Oxidase. <i>Journal of the American Chemical Society</i> , 1997 , 119, 3007-3016	16.4	33
85	Relationship between quantum-chemical descriptors of proton dissociation and experimental acidity constants of various hydroxylated coumarins. Identification of the biologically active species for xanthine oxidase inhibition. <i>European Journal of Medicinal Chemistry</i> , 2007 , 42, 1028-31	6.8	30
84	Structural bases for the inhibition of aldose reductase by phenolic compounds. <i>Bioorganic and Medicinal Chemistry</i> , 2000 , 8, 1151-8	3.4	30
83	Aldose reductase does catalyse the reduction of glyceraldehyde through a stoichiometric oxidation of NADPH. <i>Experimental Eye Research</i> , 2000 , 71, 515-21	3.7	30
82	Isoxazolo-[3,4-d]-pyridazin-7-(6H)-one as a potential substrate for new aldose reductase inhibitors. Journal of Medicinal Chemistry, 1999 , 42, 1894-900	8.3	30
81	BEAR, a novel virtual screening methodology for drug discovery. <i>Journal of Biomolecular Screening</i> , 2011 , 16, 129-33		28
80	Refinement and Rescoring of Virtual Screening Results. Frontiers in Chemistry, 2019, 7, 498	5	27
79	Assessing protein kinase selectivity with molecular dynamics and mm-pbsa binding free energy calculations. <i>Chemical Biology and Drug Design</i> , 2011 , 78, 252-9	2.9	26
78	Computational polypharmacology analysis of the heat shock protein 90 interactome. <i>Journal of Chemical Information and Modeling</i> , 2015 , 55, 676-86	6.1	25
77	Exploring the binding site of C-terminal hsp90 inhibitors. <i>Journal of Chemical Information and Modeling</i> , 2010 , 50, 1522-8	6.1	24
76	Structure-based design of an inhibitor modeled at the substrate active site of aldose reductase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1997 , 7, 1897-1902	2.9	24
75	Analytical and Simulation-Based Models for Drug Release and Gel-Degradation in a Tetra-PEG Hydrogel Drug-Delivery System. <i>Macromolecules</i> , 2015 , 48, 7359-7369	5.5	22
74	WISDOM-II: screening against multiple targets implicated in malaria using computational grid infrastructures. <i>Malaria Journal</i> , 2009 , 8, 88	3.6	22
73	Promiscuity of inhibitors of human protein kinases at varying data confidence levels and test frequencies. <i>RSC Advances</i> , 2017 , 7, 41265-41271	3.7	20
72	Structural models and binding site prediction of the C-terminal domain of human Hsp90: a new target for anticancer drugs. <i>Chemical Biology and Drug Design</i> , 2008 , 71, 420-433	2.9	20
71	Nitrophenyl derivatives as aldose reductase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2002 , 10, 3923-31	3.4	20
70	Conformational analysis, molecular modeling and quantitative structure-activity relationship studies of 2,4-diamino-6,7-dimethoxy-2-substituted quinazoline 4-adrenergic antagonists. <i>Computational and Theoretical Chemistry</i> , 1991 , 251, 307-318		20
69	Molecular Dynamics Simulations and Classical Multidimensional Scaling Unveil New Metastable States in the Conformational Landscape of CDK2. <i>PLoS ONE</i> , 2016 , 11, e0154066	3.7	20

(2018-2013)

68	Enrichment factor analyses on G-protein coupled receptors with known crystal structure. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 739-43	6.1	19	
67	Oxidative modification of aldose reductase induced by copper ion. Factors and conditions affecting the process. <i>Biochemistry</i> , 1998 , 37, 14167-74	3.2	18	
66	7-Hydroxy-2-substituted-4-H-1-benzopyran-4-one derivatives as aldose reductase inhibitors: a SAR study. <i>European Journal of Medicinal Chemistry</i> , 2001 , 36, 697-703	6.8	18	
65	Design of Dual Inhibitors of Histone Deacetylase 6 and Heat Shock Protein 90. ACS Omega, 2020 , 5, 11	4733 <i>9</i> 11	4808	
64	In Silico Repositioning of Cannabigerol as a Novel Inhibitor of the Enoyl Acyl Carrier Protein (ACP) Reductase (InhA). <i>Molecules</i> , 2019 , 24,	4.8	17	
63	Synthesis and aldose reductase inhibitory activity of a new series of benz[h]cinnolinone derivatives. <i>Il Farmaco</i> , 2000 , 55, 544-52		17	
62	Physico-chemical properties of anthocyanidins. Part 1. Theoretical evaluation of the stability of the neutral and anionic tautomeric forms. <i>Computational and Theoretical Chemistry</i> , 1993 , 279, 157-166		17	
61	Drug Repurposing and Polypharmacology to Fight SARS-CoV-2 Through Inhibition of the Main Protease. <i>Frontiers in Pharmacology</i> , 2021 , 12, 636989	5.6	17	
60	Identification of small-molecule EGFR allosteric inhibitors by high-throughput docking. <i>Future Medicinal Chemistry</i> , 2018 , 10, 1545-1553	4.1	17	
59	Selection of protein conformations for structure-based polypharmacology studies. <i>Drug Discovery Today</i> , 2018 , 23, 1889-1896	8.8	16	
58	Probing an Allosteric Pocket of CDK2 with Small Molecules. ChemMedChem, 2017, 12, 33-41	3.7	16	
57	Molecular dynamics simulations of the structure of aldose reductase complexed with the inhibitor tolrestat. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1998 , 8, 641-6	2.9	16	
56	Virtual screening on large scale grids. Parallel Computing, 2007, 33, 289-301	1	16	
55	Theoretical and experimental study of flavones as inhibitors of xanthine oxidase. <i>European Journal of Medicinal Chemistry</i> , 1995 , 30, 141-146	6.8	16	
54	Molecular orbital study of the nitrogen basicity of prazosin analogues in relation to their <code>#-adrenoceptor</code> binding affinity. <i>Computational and Theoretical Chemistry</i> , 1991 , 233, 343-351		16	
53	Emerging topics in structure-based virtual screening. <i>Pharmaceutical Research</i> , 2013 , 30, 1458-63	4.5	15	
52	Insight into the specificity of thymidylate synthase from molecular dynamics and free energy perturbation calculations. <i>Journal of the American Chemical Society</i> , 1995 , 117, 7213-7227	16.4	15	
51	Structure-Activity Relationships of Hexahydrocyclopenta[c]quinoline Derivatives as Allosteric Inhibitors of CDK2 and EGFR. <i>ChemMedChem</i> , 2018 , 13, 2627-2634	3.7	15	

50	Insights into the interaction of negative allosteric modulators with the metabotropic glutamate receptor 5: discovery and computational modeling of a new series of ligands with nanomolar affinity. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 3040-58	3.4	14
49	Mutational analysis of Plasmodium falciparum dihydrofolate reductase: the role of aspartate 54 and phenylalanine 223 on catalytic activity and antifolate binding. <i>Molecular and Biochemical Parasitology</i> , 2002 , 121, 185-93	1.9	14
48	Structure of Plasmodium vivax dihydrofolate reductase determined by homology modeling and molecular dynamics refinement. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003 , 13, 3257-60	2.9	14
47	Conformational analysis of phthalein derivatives acting as thymidylate synthase inhibitors by means of 1H NMR and quantum chemical calculations. <i>Bioorganic and Medicinal Chemistry</i> , 1996 , 4, 1783	3 <i>-</i> 3 5 4	13
46	QSAR Analysis in 2,4-Diamino-6,7-dimethoxy Quinoline Derivatives M -Adrenoceptor Antagonists U sing the Partial Least Squares (PLS) Method and Theoretical Molecular Descriptors. <i>QSAR and Combinatorial Science</i> , 1990 , 9, 340-345		13
45	Heat shock protein 90 and serine/threonine kinase B-Raf inhibitors have overlapping chemical space. <i>RSC Advances</i> , 2017 , 7, 31069-31074	3.7	12
44	Activity prediction and structural insights of extracellular signal-regulated kinase 2 inhibitors with molecular dynamics simulations. <i>Chemical Biology and Drug Design</i> , 2009 , 74, 630-5	2.9	12
43	Free energy perturbation studies on binding of the inhibitor 5,6-dihydrobenzo[h]cinnolin-3(2H)one-2-acetic acid and its methoxylated analogs to aldose reductase. <i>Tetrahedron</i> , 1998 , 54, 9415-9428	2.4	11
42	Inhibitory activity of flavonols towards the xanthine oxidase enzyme. <i>International Journal of Pharmaceutics</i> , 1992 , 86, 17-23	6.5	11
41	Anthocyanidines as inhibitors of xanthine oxidase. <i>Die Pharmazie</i> , 1995 , 50, 573-4	1.5	11
40	Synthesis and Biological Evaluation of Migrastatin Macrotriazoles. <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 60-69	3.2	10
39	A computational workflow for the design of irreversible inhibitors of protein kinases. <i>Journal of Computer-Aided Molecular Design</i> , 2010 , 24, 183-94	4.2	9
38	Fruits of ribes, rubus, vaccinium and prunus genus. Metal contents and genome. <i>Freseniusr Journal of Analytical Chemistry</i> , 1998 , 361, 353-354		9
37	Identification of Target Associations for Polypharmacology from Analysis of Crystallographic Ligands of the Protein Data Bank. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 372-390	6.1	9
36	Hydroxamic Acid Derivatives: From Synthetic Strategies to Medicinal Chemistry Applications. <i>ACS Omega</i> , 2021 , 6, 21843-21849	3.9	9
35	Binding of 1-benzopyran-4-one derivatives to aldose reductase: a free energy perturbation study. Bioorganic and Medicinal Chemistry, 2002 , 10, 1427-36	3.4	8
34	ortho-Halogen naphthaleins as specific inhibitors of Lactobacillus casei thymidylate synthase. Conformational properties and biological activity. <i>Bioorganic and Medicinal Chemistry</i> , 2003 , 11, 951-63	3.4	7
33	Synthesis and cytotoxicity of bis(benzo[g]indole-3-carboxamides) and related compounds. <i>Archiv Der Pharmazie</i> , 2001 , 334, 337-44	4.3	7

(2016-2000)

32	A series of diarylsubstituted oximes as potential substrate for new aldose reductase inhibitors. Journal of Heterocyclic Chemistry, 2000 , 37, 1089-1096	1.9	7
31	Exploration and Comparison of the Geometrical and Physicochemical Properties of an & Allosteric Pocket in the Structural Kinome. <i>Journal of Chemical Information and Modeling</i> , 2018 , 58, 1094-1103	6.1	6
30	Exploiting computationally derived out-of-the-box protein conformations for drug design. <i>Future Medicinal Chemistry</i> , 2016 , 8, 1887-1897	4.1	6
29	Quantitative measurement of proton dissociation and tautomeric constants of apigeninidin. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1995 , 227		6
28	Promising Non-cytotoxic Monosubstituted Chalcones to Target Monoamine Oxidase-B. <i>ACS Medicinal Chemistry Letters</i> , 2021 , 12, 1151-1158	4.3	6
27	Antifungal Activity and DNA Topoisomerase Inhibition of Hydrolysable Tannins from L. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	5
26	Investigating the Selectivity of Allosteric Inhibitors for Mutant T790M EGFR over Wild Type Using Molecular Dynamics and Binding Free Energy Calculations. <i>ACS Omega</i> , 2018 , 3, 16556-16562	3.9	5
25	An unexpected reversal in the pharmacological stereoselectivity of benzothiadiazine AMPA positive allosteric modulators. <i>MedChemComm</i> , 2016 , 7, 2410-2417	5	4
24	2-Phenyloxazole-4-carboxamide as a Scaffold for Selective Inhibition of Human Monoamine Oxidase B. <i>ChemMedChem</i> , 2019 , 14, 1641-1652	3.7	4
23	Preparation of thieno[3,2-h]cinnolinones as matrix metalloproteinase inhibitors. <i>Archiv Der Pharmazie</i> , 2000 , 333, 37-47	4.3	4
22	Theoretical analysis of the addition of hydroxylamine to uracil and 5-fluorouracil as a model for the thymidylate synthase reaction. <i>Computational and Theoretical Chemistry</i> , 1995 , 343, 1-9		4
21	LigAdvisor: a versatile and user-friendly web-platform for drug design. <i>Nucleic Acids Research</i> , 2021 , 49, W326-W335	20.1	4
20	Evaluation of Amides, Carbamates, Sulfonamides, and Ureas of 4-Prop-2-ynylidenecycloalkylamine as Potent, Selective, and Bioavailable Negative Allosteric Modulators of Metabotropic Glutamate Receptor 5. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 1246-1273	8.3	4
19	Investigation of the effect of different linker chemotypes on the inhibition of histone deacetylases (HDACs). <i>Bioorganic Chemistry</i> , 2021 , 106, 104462	5.1	4
18	Natural polyhydroxylated compounds as inhibitors of xanthine oxidase. <i>Die Pharmazie</i> , 1996 , 51, 994-5	1.5	4
17	Design and Synthesis of Hsp90 Inhibitors with B-Raf and PDHK1 Multi-Target Activity. <i>ChemistryOpen</i> , 2021 , 10, 1177-1185	2.3	3
16	Prediction of activity and selectivity profiles of human Carbonic Anhydrase inhibitors using machine learning classification models. <i>Journal of Cheminformatics</i> , 2021 , 13, 18	8.6	3
15	G48A, a New KRAS Mutation Found in Lung Adenocarcinoma. <i>Journal of Thoracic Oncology</i> , 2016 , 11, 1170-5	8.9	3

14	Inhibitors of histone deacetylase 6 based on a novel 3-hydroxy-isoxazole zinc binding group. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021 , 36, 2080-2086	5.6	3
13	Drug repurposing and polypharmacology to fight SARS-CoV-2 through the inhibition of the main prote	ase	2
12	Identification of 4-aryl-1H-pyrrole[2,3-b]pyridine derivatives for the development of new B-Raf inhibitors. <i>Chemical Biology and Drug Design</i> , 2018 , 92, 1382-1386	2.9	1
11	Novel and less explored chemotypes of natural origin for the inhibition of Hsp90. <i>MedChemComm</i> , 2016 , 7, 2063-2075	5	1
10	Dimerization hot spots in the structure of human Hsp90. <i>MedChemComm</i> , 2014 , 5, 797-801	5	1
9	In vitro effects of Plasmodium falciparum dihydrofolate reductase inhibitors on normal and cancer cell proliferation. <i>ChemMedChem</i> , 2008 , 3, 421-4	3.7	1
8	Solvent effects on the tautomerism of apigeninidin. <i>Tetrahedron Letters</i> , 1994 , 35, 9751-9754	2	1
7	Antilipoperoxidant Activity of Polyphenolic Crude Extracts of some Edible Fruits. <i>Planta Medica</i> , 1992 , 58, 662-663	3.1	1
6	Grid-Enabled High Throughput Virtual Screening 2007 , 45-59		1
5	Chemoinformatics Analyses of Tau Ligands Reveal Key Molecular Requirements for the Identification of Potential Drug Candidates against Tauopathies. <i>Molecules</i> , 2021 , 26,	4.8	1
4	Synthesis of potent and selective HDAC6 inhibitors led to unexpected opening of a quinazoline ring <i>RSC Advances</i> , 2022 , 12, 11548-11556	3.7	О
3	Virtual Screening for Dual Hsp90/B-Raf Inhibitors. <i>Methods in Pharmacology and Toxicology</i> , 2017 , 355-	36:51	
2	Identification of potential biological targets of oxindole scaffolds via in silico repositioning strategies. <i>F1000Research</i> ,11, 217	3.6	
1	Identification of potential biological targets of oxindole scaffolds via in silico repositioning strategies. <i>F1000Research</i> ,11, 217	3.6	