Mark A Murcko

List of Publications by Citations

Source: https://exaly.com/author-pdf/2986483/mark-a-murcko-publications-by-citations.pdf

Version: 2024-04-20

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.

62 56 9,927 35 h-index g-index citations papers 62 6.03 10,783 11.2 L-index ext. citations avg, IF ext. papers

#	Paper	IF	Citations
56	The properties of known drugs. 1. Molecular frameworks. <i>Journal of Medicinal Chemistry</i> , 1996 , 39, 288	87 -9 .3	1403
55	Structure and mechanism of interleukin-1 beta converting enzyme. <i>Nature</i> , 1994 , 370, 270-5	50.4	782
54	Virtual screening∃n overview. <i>Drug Discovery Today</i> , 1998 , 3, 160-178	8.8	769
53	Accurate and reliable prediction of relative ligand binding potency in prospective drug discovery by way of a modern free-energy calculation protocol and force field. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2695-703	16.4	633
52	Consensus scoring: A method for obtaining improved hit rates from docking databases of three-dimensional structures into proteins. <i>Journal of Medicinal Chemistry</i> , 1999 , 42, 5100-9	8.3	612
51	Hepatitis C virus NS3 RNA helicase domain with a bound oligonucleotide: the crystal structure provides insights into the mode of unwinding. <i>Structure</i> , 1998 , 6, 89-100	5.2	556
50	Can we learn to distinguish between "drug-like" and "nondrug-like" molecules?. <i>Journal of Medicinal Chemistry</i> , 1998 , 41, 3314-24	8.3	469
49	Structure and mechanism of inosine monophosphate dehydrogenase in complex with the immunosuppressant mycophenolic acid. <i>Cell</i> , 1996 , 85, 921-30	56.2	358
48	Computational methods to predict binding free energy in ligand-receptor complexes. <i>Journal of Medicinal Chemistry</i> , 1995 , 38, 4953-67	8.3	345
47	Prediction of Varug-likeness V Advanced Drug Delivery Reviews, 2002, 54, 255-71	18.5	307
46	Properties of known drugs. 2. Side chains. <i>Journal of Medicinal Chemistry</i> , 1999 , 42, 5095-9	8.3	277
45	What do medicinal chemists actually make? A 50-year retrospective. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 6405-16	8.3	268
44	Designing libraries with CNS activity. <i>Journal of Medicinal Chemistry</i> , 1999 , 42, 4942-51	8.3	255
43	The structural basis for the specificity of pyridinylimidazole inhibitors of p38 MAP kinase. <i>Chemistry and Biology</i> , 1997 , 4, 423-31		250
42	Recognizing molecules with drug-like properties. Current Opinion in Chemical Biology, 1999 , 3, 384-7	9.7	235
41	The SHAPES strategy: an NMR-based approach for lead generation in drug discovery. <i>Chemistry and Biology</i> , 1999 , 6, 755-69		230
40	Thienothiopyran-2-sulfonamides: novel topically active carbonic anhydrase inhibitors for the treatment of glaucoma. <i>Journal of Medicinal Chemistry</i> , 1989 , 32, 2510-3	8.3	186

(2021-1993)

39	GroupBuild: a fragment-based method for de novo drug design. <i>Journal of Medicinal Chemistry</i> , 1993 , 36, 1700-10	8.3	175
38	Chemogenomic approaches to drug discovery. Current Opinion in Chemical Biology, 2001, 5, 464-70	9.7	151
37	Discovery of a novel, first-in-class, orally bioavailable azaindole inhibitor (VX-787) of influenza PB2. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 6668-78	8.3	145
36	Rotational barriers. 2. Energies of alkane rotamers. An examination of gauche interactions. <i>Journal of the American Chemical Society</i> , 1988 , 110, 8029-8038	16.4	140
35	Rotational barriers. 4. Dimethoxymethane. The anomeric effect revisited. <i>Journal of the American Chemical Society</i> , 1989 , 111, 4821-4828	16.4	128
34	Preclinical activity of VX-787, a first-in-class, orally bioavailable inhibitor of the influenza virus polymerase PB2 subunit. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 1569-82	5.9	126
33	CONCERTS: dynamic connection of fragments as an approach to de novo ligand design. <i>Journal of Medicinal Chemistry</i> , 1996 , 39, 1651-63	8.3	98
32	New isomeric classes of topically active ocular hypotensive carbonic anhydrase inhibitors: 5-substituted thieno[2,3-b]thiophene-2-sulfonamides and 5-substituted thieno[3,2-b]thiophene-2-sulfonamides. <i>Journal of Medicinal Chemistry</i> , 1991 , 34, 1805-18	8.3	98
31	Ab initio molecular orbital conformational analysis of prototypical organic systems. 1. Ethylene glycol and 1,2-dimethoxyethane. <i>Journal of the American Chemical Society</i> , 1992 , 114, 10010-10018	16.4	93
30	Kinase-likeness and kinase-privileged fragments: toward virtual polypharmacology. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 1214-22	8.3	83
29	CONCEPTS: New dynamic algorithm for de novo drug suggestion. <i>Journal of Computational Chemistry</i> , 1993 , 14, 1184-1193	3.5	67
28	FK506-binding protein mutational analysis: defining the active-site residue contributions to catalysis and the stability of ligand complexes. <i>Protein Engineering, Design and Selection</i> , 1996 , 9, 173-80) ^{1.9}	66
27	Assessing the impact of generative AI on medicinal chemistry. <i>Nature Biotechnology</i> , 2020 , 38, 143-145	44.5	61
26	Toward a pharmacophore for kinase frequent hitters. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 5616-9	8.3	55
25	The Discovery of VX-745: A Novel and Selective p38Ekinase Inhibitor. <i>ACS Medicinal Chemistry Letters</i> , 2011 , 2, 758-63	4.3	46
24	Inhibitors of hepatitis C virus NS3.4A protease. Part 3: P2 proline variants. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 1939-42	2.9	45
23	Inhibition of carbonic anhydrase. <i>Journal of the American Chemical Society</i> , 1991 , 113, 4484-4490	16.4	45
22	Applications of Deep Learning in Molecule Generation and Molecular Property Prediction. <i>Accounts of Chemical Research</i> , 2021 , 54, 263-270	24.3	39

21	Rotational barriers. Computational and Theoretical Chemistry, 1988, 163, 1-17		33
20	Structure-based design of non-peptidic pyridone aldehydes as inhibitors of interleukin-1 converting enzyme. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1997 , 7, 2181-2186	2.9	27
19	cDNA encoding murine FK506-binding protein (FKBP): nucleotide and deduced amino acid sequence. <i>Gene</i> , 1991 , 109, 255-8	3.8	25
18	Barriers to rotation adjacent to double bonds. 4. Effect of basis set on structures, and of electron correlation on relative energies. <i>Journal of Computational Chemistry</i> , 1988 , 9, 488-494	3.5	25
17	The synthesis and evaluation of peptidyl aspartyl aldehydes as inhibitors of ice <i>Bioorganic and Medicinal Chemistry Letters</i> , 1994 , 4, 2359-2364	2.9	24
16	Guiding molecules towards drug-likeness. Current Opinion in Drug Discovery & Development, 2002, 5, 54	0-9	21
15	Nonbonded interactions. 1. Anisotropic hydrogen-hydrogen interactions. <i>Journal of Computational Chemistry</i> , 1987 , 8, 1124-1130	3.5	20
14	Enthalpies of hydration of alkenes. 3. Cycloalkenes. <i>Journal of the American Chemical Society</i> , 1985 , 107, 6019-6022	16.4	18
13	What Makes a Great Medicinal Chemist? A Personal Perspective. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 7419-7424	8.3	16
12	Inhibitors of hepatitis C virus NS3.4A protease. Effect of P4 capping groups on inhibitory potency and pharmacokinetics. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 3406-11	2.9	16
11	Conformational analysis of carbonic anhydrase inhibitors using ab initio molecular orbital methods. 1. Rotational isomerism in methane sulfonamide anion, CH3-SO2-NHII <i>Theoretical Chemistry Accounts</i> , 1997 , 96, 56-60	1.9	13
10	Chapter 29. Structure-Based Drug Design. <i>Annual Reports in Medicinal Chemistry</i> , 1999 , 34, 297-306	1.6	13
9	Bond bending and hybridization. Computational and Theoretical Chemistry, 1988, 169, 355-365		12
8	An ab initio study of diazoethene, a propadienone isoelectronic with a bent structure. <i>Journal of the American Chemical Society</i> , 1988 , 110, 364-368	16.4	7
7	Critical assessment of AI in drug discovery. Expert Opinion on Drug Discovery, 2021, 16, 937-947	6.2	7
6	Design, syntheses, and activity of new 3-[(sulfonylaryl)-amino]-1,4-benzodiazepin-2-one derivatives as £hrombin inhibitors. <i>European Journal of Medicinal Chemistry</i> , 1998 , 33, 471-488	6.8	5
5	Conformational analysis of HIV protease inhibitors. I. Rotation of the amide group adjacent to the P?1 decahydroisoquinoline ring system in ro 31-8959 and related systems. <i>Journal of Computational Chemistry</i> , 1993 , 14, 1446-1453	3.5	4
4	Discovery and Development of Telaprevir (Incivek) Protease Inhibitor to Treat Hepatitis C Infection 2015 , 195-212		3

LIST OF PUBLICATIONS

3	Evaluation guidelines for machine learning tools in the chemical sciences. <i>Nature Reviews Chemistry</i> ,	34.6	3
2	Envisioning the Future: Medicine in the Year 2050. <i>Disruptive Science and Technology</i> , 2012 , 1, 89-99		2
1	Inhibition of carbonic anhydrase. [Erratum to document cited in CA115(3):24912t]. <i>Journal of the American Chemical Society</i> , 1992 , 114, 1128-1128	16.4	2