Mark A Murcko

List of Publications by Year in Descending Order

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

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

#	Paper	IF	Citations
56	Applications of Deep Learning in Molecule Generation and Molecular Property Prediction. <i>Accounts of Chemical Research</i> , 2021 , 54, 263-270	24.3	39
55	Critical assessment of AI in drug discovery. Expert Opinion on Drug Discovery, 2021, 16, 937-947	6.2	7
54	Assessing the impact of generative AI on medicinal chemistry. <i>Nature Biotechnology</i> , 2020 , 38, 143-145	44.5	61
53	What Makes a Great Medicinal Chemist? A Personal Perspective. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 7419-7424	8.3	16
52	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
51	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
50	Discovery and Development of Telaprevir (Incivek IIIA Protease Inhibitor to Treat Hepatitis C Infection 2015 , 195-212		3
49	Discovery of a novel, first-in-class, orally bioavailable azaindole inhibitor (VX-787) of influenza PB2. Journal of Medicinal Chemistry, 2014 , 57, 6668-78	8.3	145
48	Envisioning the Future: Medicine in the Year 2050. <i>Disruptive Science and Technology</i> , 2012 , 1, 89-99		2
47	What do medicinal chemists actually make? A 50-year retrospective. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 6405-16	8.3	268
46	The Discovery of VX-745: A Novel and Selective p38EKinase Inhibitor. <i>ACS Medicinal Chemistry Letters</i> , 2011 , 2, 758-63	4.3	46
45	Kinase-likeness and kinase-privileged fragments: toward virtual polypharmacology. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 1214-22	8.3	83
44	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
43	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
42	Toward a pharmacophore for kinase frequent hitters. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 5616-9	8.3	55
41	Prediction of Vdrug-likenessV Advanced Drug Delivery Reviews, 2002, 54, 255-71	18.5	307
40	Guiding molecules towards drug-likeness. Current Opinion in Drug Discovery & Development, 2002, 5, 54	0-9	21

39	Chemogenomic approaches to drug discovery. Current Opinion in Chemical Biology, 2001, 5, 464-70	9.7	151
38	Chapter 29. Structure-Based Drug Design. Annual Reports in Medicinal Chemistry, 1999 , 34, 297-306	1.6	13
37	Recognizing molecules with drug-like properties. Current Opinion in Chemical Biology, 1999, 3, 384-7	9.7	235
36	The SHAPES strategy: an NMR-based approach for lead generation in drug discovery. <i>Chemistry and Biology</i> , 1999 , 6, 755-69		230
35	Designing libraries with CNS activity. <i>Journal of Medicinal Chemistry</i> , 1999 , 42, 4942-51	8.3	255
34	Properties of known drugs. 2. Side chains. <i>Journal of Medicinal Chemistry</i> , 1999 , 42, 5095-9	8.3	277
33	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
32	Virtual screening∃n overview. <i>Drug Discovery Today</i> , 1998 , 3, 160-178	8.8	769
31	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
30	Design, syntheses, and activity of new 3-[(sulfonylaryl)-amino]-1,4-benzodiazepin-2-one derivatives as Ehrombin inhibitors. <i>European Journal of Medicinal Chemistry</i> , 1998 , 33, 471-488	6.8	5
29	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
28	Conformational analysis of carbonic anhydrase inhibitors using ab initio molecular orbital methods. 1. Rotational isomerism in methane sulfonamide anion, CH3-SO2-NH\(\Pi\)Theoretical Chemistry Accounts, 1997 , 96, 56-60	1.9	13
27	The structural basis for the specificity of pyridinylimidazole inhibitors of p38 MAP kinase. <i>Chemistry and Biology</i> , 1997 , 4, 423-31		250
26	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
25	The properties of known drugs. 1. Molecular frameworks. <i>Journal of Medicinal Chemistry</i> , 1996 , 39, 288	37 -9 .3	1403
24	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
23	Structure and mechanism of inosine monophosphate dehydrogenase in complex with the immunosuppressant mycophenolic acid. <i>Cell</i> , 1996 , 85, 921-30	56.2	358
22	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, 173-8	1.9	66

21	Computational methods to predict binding free energy in ligand-receptor complexes. <i>Journal of Medicinal Chemistry</i> , 1995 , 38, 4953-67	8.3	345
20	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
19	Structure and mechanism of interleukin-1 beta converting enzyme. <i>Nature</i> , 1994 , 370, 270-5	50.4	782
18	GroupBuild: a fragment-based method for de novo drug design. <i>Journal of Medicinal Chemistry</i> , 1993 , 36, 1700-10	8.3	175
17	CONCEPTS: New dynamic algorithm for de novo drug suggestion. <i>Journal of Computational Chemistry</i> , 1993 , 14, 1184-1193	3.5	67
16	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
15	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
14	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
13	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
12	cDNA encoding murine FK506-binding protein (FKBP): nucleotide and deduced amino acid sequence. <i>Gene</i> , 1991 , 109, 255-8	3.8	25
11	Inhibition of carbonic anhydrase. <i>Journal of the American Chemical Society</i> , 1991 , 113, 4484-4490	16.4	45
10	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
9	Rotational barriers. 4. Dimethoxymethane. The anomeric effect revisited. <i>Journal of the American Chemical Society</i> , 1989 , 111, 4821-4828	16.4	128
8	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
7	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
6	Bond bending and hybridization. Computational and Theoretical Chemistry, 1988, 169, 355-365		12
5	Rotational barriers. Computational and Theoretical Chemistry, 1988, 163, 1-17		33
4	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

LIST OF PUBLICATIONS

3	Nonbonded interactions. 1. Anisotropic hydrogen-hydrogen interactions. <i>Journal of Computational Chemistry</i> , 1987 , 8, 1124-1130	3.5	20
2	Enthalpies of hydration of alkenes. 3. Cycloalkenes. <i>Journal of the American Chemical Society</i> , 1985 , 107, 6019-6022	16.4	18
1	Evaluation guidelines for machine learning tools in the chemical sciences. Nature Reviews Chemistry,	34.6	3