

Andrew R Leach

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.

80 papers	12,342 citations	32 h-index	96 g-index
96 ext. papers	14,608 ext. citations	10.5 avg, IF	6.12 L-index

#	Paper	IF	Citations
80	CACHE (Critical Assessment of Computational Hit-finding Experiments): A public-private partnership benchmarking initiative to enable the development of computational methods for hit-finding. <i>Nature Reviews Chemistry</i> , 2022 , 6, 287-295	34.6	1
79	Actionable druggable genome-wide Mendelian randomization identifies repurposing opportunities for COVID-19. <i>Nature Medicine</i> , 2021 , 27, 668-676	50.5	19
78	Target-Based Evaluation of "Drug-Like" Properties and Ligand Efficiencies. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 7210-7230	8.3	9
77	Influence of HLA Class II Polymorphism on Predicted Cellular Immunity Against SARS-CoV-2 at the Population and Individual Level. <i>Frontiers in Immunology</i> , 2021 , 12, 669357	8.4	3
76	Drug Safety Data Curation and Modeling in ChEMBL: Boxed Warnings and Withdrawn Drugs. <i>Chemical Research in Toxicology</i> , 2021 , 34, 385-395	4	3
75	Computational Drug Target Tractability Analysis 2021 , 145-153		0
74	MAIP: a web service for predicting blood-stage malaria inhibitors. <i>Journal of Cheminformatics</i> , 2021 , 13, 13	8.6	3
73	The PROTACTable genome. <i>Nature Reviews Drug Discovery</i> , 2021 , 20, 789-797	64.1	20
72	Hotspots API: A Python Package for the Detection of Small Molecule Binding Hotspots and Application to Structure-Based Drug Design. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 1911-1916	6.1	8
71	The Global Phosphorylation Landscape of SARS-CoV-2 Infection. <i>Cell</i> , 2020 , 182, 685-712.e19	56.2	439
70	The ELIXIR Core Data Resources: fundamental infrastructure for the life sciences. <i>Bioinformatics</i> , 2020 , 36, 2636-2642	7.2	29
69	Drug mechanism-of-action discovery through the integration of pharmacological and CRISPR screens. <i>Molecular Systems Biology</i> , 2020 , 16, e9405	12.2	22
68	An open source chemical structure curation pipeline using RDKit. <i>Journal of Cheminformatics</i> , 2020 , 12, 51	8.6	40
67	Reply to "Missed opportunities in large scale comparison of QSAR and conformal prediction methods and their applications in drug discovery". <i>Journal of Cheminformatics</i> , 2019 , 11, 64	8.6	2
66	ChEMBL: towards direct deposition of bioassay data. <i>Nucleic Acids Research</i> , 2019 , 47, D930-D940	20.1	453
65	Large scale comparison of QSAR and conformal prediction methods and their applications in drug discovery. <i>Journal of Cheminformatics</i> , 2019 , 11, 4	8.6	53
64	Unexplored therapeutic opportunities in the human genome. <i>Nature Reviews Drug Discovery</i> , 2018 , 17, 317-332	64.1	156

63	Drug Target Commons: A Community Effort to Build a Consensus Knowledge Base for Drug-Target Interactions. <i>Cell Chemical Biology</i> , 2018 , 25, 224-229.e2	8.2	51
62	A large-scale dataset of in vivo pharmacology assay results. <i>Scientific Data</i> , 2018 , 5, 180230	8.2	6
61	The ChEMBL database in 2017. <i>Nucleic Acids Research</i> , 2017 , 45, D945-D954	20.1	1059
60	Using ChEMBL web services for building applications and data processing workflows relevant to drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2017 , 12, 757-767	6.2	12
59	An analysis of the attrition of drug candidates from four major pharmaceutical companies. <i>Nature Reviews Drug Discovery</i> , 2015 , 14, 475-86	64.1	713
58	Coping with Complexity in Molecular Design 2013 , 57-77		1
57	Computer-aided molecular design under the SWOTlight. <i>Journal of Computer-Aided Molecular Design</i> , 2012 , 26, 51-6	4.2	11
56	Reprint of: Characterising hepatic mitochondrial function as a model for systemic toxicity: a commentary. <i>Toxicology</i> , 2012 , 302, e1-4	4.4	
55	Cheminformatics and computational chemistry in lead optimisation. <i>Journal of Cheminformatics</i> , 2011 , 3,	8.6	78
54	Molecular complexity and fragment-based drug discovery: ten years on. <i>Current Opinion in Chemical Biology</i> , 2011 , 15, 489-96	9.7	129
53	Three-dimensional pharmacophore methods in drug discovery. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 539-58	8.3	283
52	SAR Knowledge Bases in Drug Discovery. <i>Annual Reports in Computational Chemistry</i> , 2008 , 4, 203-216	1.8	2
51	A comparison of field-based similarity searching methods: CatShape, FBSS, and ROCS. <i>Journal of Chemical Information and Modeling</i> , 2008 , 48, 719-29	6.1	52
50	An Introduction To Chemoinformatics 2007 ,		191
49	Structure-Based Drug Discovery 2007 ,		23
48	A Survey of Methods for Searching the Conformational Space of Small and Medium-Sized Molecules. <i>Reviews in Computational Chemistry</i> , 2007 , 1-55		35
47	Introduction to Fragment Screening 2007 , 49-72		1
46	Prediction of protein-ligand interactions. Docking and scoring: successes and gaps. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 5851-5	8.3	542

45	Fragment screening: an introduction. <i>Molecular BioSystems</i> , 2006 , 2, 430-46		123
44	Design and synthesis of orally active pyrrolidin-2-one-based factor Xa inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006 , 16, 3784-8	2.9	27
43	Computational Chemistry, Molecular Complexity and Screening Set Design. <i>Methods and Principles in Medicinal Chemistry</i> , 2005 , 43-57	0.4	4
42	Analysis and optimization of structure-based virtual screening protocols. (3). New methods and old problems in scoring function design. <i>Journal of Molecular Graphics and Modelling</i> , 2003 , 22, 41-53	2.8	29
41	A comparison of the pharmacophore identification programs: Catalyst, DISCO and GASP. <i>Journal of Computer-Aided Molecular Design</i> , 2002 , 16, 653-81	4.2	106
40	Computational Chemistry in Lead Identification, Library Design and Lead Optimisation. <i>Molecular Simulation</i> , 2001 , 26, 33-49	2	
39	Molecular complexity and its impact on the probability of finding leads for drug discovery. <i>Journal of Chemical Information and Computer Sciences</i> , 2001 , 41, 856-64		761
38	Prediction of biological activity for high-throughput screening using binary kernel discrimination. <i>Journal of Chemical Information and Computer Sciences</i> , 2001 , 41, 1295-300		97
37	Synergy between combinatorial chemistry and de novo design. <i>Journal of Molecular Graphics and Modelling</i> , 2000 , 18, 358-67, 526	2.8	22
36	The in silico world of virtual libraries. <i>Drug Discovery Today</i> , 2000 , 5, 326-336	8.8	109
35	Where are the GaPs? A rational approach to monomer acquisition and selection. <i>Journal of Chemical Information and Computer Sciences</i> , 2000 , 40, 1262-9		25
34	PLUMS: a program for the rapid optimization of focused libraries. <i>Journal of Chemical Information and Computer Sciences</i> , 2000 , 40, 1441-8		23
33	Ligand solvation in molecular docking. <i>Proteins: Structure, Function and Bioinformatics</i> , 1999 , 34, 4-16	4.2	223
32	Binding constants of neuraminidase inhibitors: An investigation of the linear interaction energy method. <i>Journal of Medicinal Chemistry</i> , 1999 , 42, 5142-52	8.3	77
31	Implementation of a system for reagent selection and library enumeration, profiling, and design. <i>Journal of Chemical Information and Computer Sciences</i> , 1999 , 39, 1161-72		80
30	Further Development of a Genetic Algorithm for Ligand Docking and Its Application to Screening Combinatorial Libraries. <i>ACS Symposium Series</i> , 1999 , 271-291	0.4	14
29	Ligand solvation in molecular docking 1999 , 34, 4		1
28	Exploring the conformational space of protein side chains using dead-end elimination and the A* algorithm. <i>Proteins: Structure, Function and Bioinformatics</i> , 1998 , 33, 227-39	4.2	167

27	Development and validation of a genetic algorithm for flexible docking. <i>Journal of Molecular Biology</i> , 1997 , 267, 727-48	6.5	5041
26	Structure-based selection of building blocks for array synthesis via the World-Wide Web. <i>Journal of Molecular Graphics and Modelling</i> , 1997 , 15, 158-60, 180	2.8	7
25	Synthesis and solution conformation of a C2 symmetric macrobicycle. <i>Tetrahedron Letters</i> , 1995 , 36, 3047-3050	10	
24	The Application of Neural Networks in Conformational Analysis. 1. Prediction of Minimum and Maximum Interatomic Distances. <i>Journal of Chemical Information and Computer Sciences</i> , 1995 , 35, 640-650	7	
23	A molecular dynamics study of the inhibition of chicken dihydrofolate reductase by a phenyl triazine. <i>Journal of Computational Chemistry</i> , 1995 , 16, 1378-1393	3.5	7
22	Current methods for site-directed structure generation. <i>Journal of Computer-Aided Molecular Design</i> , 1994 , 8, 467-75	4.2	48
21	Automated molecular design: a new fragment-joining algorithm. <i>Journal of Computer-Aided Molecular Design</i> , 1994 , 8, 283-98	4.2	26
20	The aggregation behaviour of two structurally isomeric glycolipids. <i>Chemistry and Physics of Lipids</i> , 1994 , 74, 83-91	3.7	8
19	A ring-bracing approach to computer-assisted ligand design. <i>Journal of Computational Chemistry</i> , 1994 , 15, 233-240	3.5	15
18	Ligand docking to proteins with discrete side-chain flexibility. <i>Journal of Molecular Biology</i> , 1994 , 235, 345-56	6.5	314
17	An Algorithm To Directly Identify a Molecule's "Most Different" Conformations. <i>Journal of Chemical Information and Computer Sciences</i> , 1994 , 34, 661-670	14	
16	Applications of Artificial Intelligence in Molecular Modelling and Drug Design 1994 , 211-265		
15	Constitutional, configurational and conformational analysis of transition metal coordination complexes. <i>Journal of Computer-Aided Molecular Design</i> , 1993 , 7, 225-40	4.2	2
14	Enantioselective N-oxygenation of chlorpheniramine by the flavin-containing monooxygenase from hog liver. <i>Xenobiotica</i> , 1992 , 22, 459-69	2	16
13	A combined model-building and distance-geometry approach to automated conformational analysis and search. <i>Journal of Chemical Information and Computer Sciences</i> , 1992 , 32, 379-385	18	
12	Theoretical investigations of novel nucleic acid bases. <i>Journal of the American Chemical Society</i> , 1992 , 114, 3675-3683	16.4	36
11	Conformational analysis of flexible ligands in macromolecular receptor sites. <i>Journal of Computational Chemistry</i> , 1992 , 13, 730-748	3.5	171
10	Automated conformational analysis and structure generation. <i>Pest Management Science</i> , 1991 , 33, 87-96	3	

9	Automated conformational analysis: algorithms for the efficient construction of low-energy conformations. <i>Journal of Computer-Aided Molecular Design</i> , 1990 , 4, 271-82	4.2	19
8	The application of Artificial Intelligence to the conformational analysis of strained molecules. <i>Journal of Computational Chemistry</i> , 1990 , 11, 680-693	3.5	29
7	Automated conformational analysis: Directed conformational search using the A* algorithm. <i>Journal of Computational Chemistry</i> , 1990 , 11, 1193-1205	3.5	49
6	Automated conformational analysis and structure generation: algorithms for molecular perception. <i>Journal of Chemical Information and Modeling</i> , 1990 , 30, 316-24	6.1	28
5	An investigation into the construction of molecular models by the template joining method. <i>Journal of Computer-Aided Molecular Design</i> , 1988 , 2, 107-23	4.2	22
4	Displaying functions of three variables. <i>Journal of Molecular Graphics</i> , 1988 , 6, 54-60		3
3	WIZARD: AI in conformational analysis. <i>Journal of Computer-Aided Molecular Design</i> , 1987 , 1, 73-85	4.2	64
2	Actionable druggable genome-wide Mendelian randomization identifies repurposing opportunities for COVID-19		1
1	Artificial Intelligence in Medicinal Chemistry1-19		