

John P Overington

List of Publications by Citations

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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.

103
papers

16,851
citations

44
h-index

110
g-index

110
ext. papers

19,793
ext. citations

12.6
avg, IF

6.4
L-index

#	Paper	IF	Citations
103	How many drug targets are there?. <i>Nature Reviews Drug Discovery</i> , 2006 , 5, 993-6	64.1	2624
102	ChEMBL: a large-scale bioactivity database for drug discovery. <i>Nucleic Acids Research</i> , 2012 , 40, D1100-7	20.1	2257
101	The ChEMBL database in 2017. <i>Nucleic Acids Research</i> , 2017 , 45, D945-D954	20.1	1059
100	The ChEMBL bioactivity database: an update. <i>Nucleic Acids Research</i> , 2014 , 42, D1083-90	20.1	1052
99	A comprehensive map of molecular drug targets. <i>Nature Reviews Drug Discovery</i> , 2017 , 16, 19-34	64.1	1032
98	The genome of the blood fluke <i>Schistosoma mansoni</i> . <i>Nature</i> , 2009 , 460, 352-8	50.4	822
97	An atlas of genetic influences on human blood metabolites. <i>Nature Genetics</i> , 2014 , 46, 543-550	36.3	695
96	The promise and peril of chemical probes. <i>Nature Chemical Biology</i> , 2015 , 11, 536-41	11.7	523
95	X-ray analysis of HIV-1 proteinase at 2.7 Å resolution confirms structural homology among retroviral enzymes. <i>Nature</i> , 1989 , 342, 299-302	50.4	428
94	HOMSTRAD: a database of protein structure alignments for homologous families. <i>Protein Science</i> , 1998 , 7, 2469-71	6.3	421
93	Can we rationally design promiscuous drugs?. <i>Current Opinion in Structural Biology</i> , 2006 , 16, 127-36	8.1	421
92	JOY: protein sequence-structure representation and analysis. <i>Bioinformatics</i> , 1998 , 14, 617-23	7.2	356
91	Probing the links between in vitro potency, ADMET and physicochemical parameters. <i>Nature Reviews Drug Discovery</i> , 2011 , 10, 197-208	64.1	333
90	A structural basis for sequence comparisons. An evaluation of scoring methodologies. <i>Journal of Molecular Biology</i> , 1993 , 233, 716-38	6.5	266
89	Derivation of rules for comparative protein modeling from a database of protein structure alignments. <i>Protein Science</i> , 1994 , 3, 1582-96	6.3	261
88	Genomic-scale prioritization of drug targets: the TDR Targets database. <i>Nature Reviews Drug Discovery</i> , 2008 , 7, 900-7	64.1	244
87	PSICQUIC and PSISCORE: accessing and scoring molecular interactions. <i>Nature Methods</i> , 2011 , 8, 528-9	21.6	227

86	ChEMBL web services: streamlining access to drug discovery data and utilities. <i>Nucleic Acids Research</i> , 2015 , 43, W612-20	20.1	215
85	The druggable genome and support for target identification and validation in drug development. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	212
84	18th Sir Hans Krebs lecture. Knowledge-based protein modelling and design. <i>FEBS Journal</i> , 1988 , 172, 513-20		211
83	Comprehensive characterization of the Published Kinase Inhibitor Set. <i>Nature Biotechnology</i> , 2016 , 34, 95-103	44.5	191
82	Alignment and searching for common protein folds using a data bank of structural templates. <i>Journal of Molecular Biology</i> , 1993 , 231, 735-52	6.5	157
81	Unexplored therapeutic opportunities in the human genome. <i>Nature Reviews Drug Discovery</i> , 2018 , 17, 317-332	64.1	156
80	From comparisons of protein sequences and structures to protein modelling and design. <i>Trends in Biochemical Sciences</i> , 1990 , 15, 235-40	10.3	134
79	Modeling alpha-helical transmembrane domains: the calculation and use of substitution tables for lipid-facing residues. <i>Protein Science</i> , 1993 , 2, 55-70	6.3	127
78	Fragment ranking in modelling of protein structure. Conformationally constrained environmental amino acid substitution tables. <i>Journal of Molecular Biology</i> , 1993 , 229, 194-220	6.5	110
77	SureChEMBL: a large-scale, chemically annotated patent document database. <i>Nucleic Acids Research</i> , 2016 , 44, D1220-8	20.1	102
76	UniChem: a unified chemical structure cross-referencing and identifier tracking system. <i>Journal of Cheminformatics</i> , 2013 , 5, 3	8.6	90
75	Ligand efficiency indices for an effective mapping of chemico-biological space: the concept of an atlas-like representation. <i>Drug Discovery Today</i> , 2010 , 15, 804-11	8.8	84
74	Activity, assay and target data curation and quality in the ChEMBL database. <i>Journal of Computer-Aided Molecular Design</i> , 2015 , 29, 885-96	4.2	79
73	New open drug activity data at EBI. <i>Chemistry Central Journal</i> , 2009 , 3,		78
72	Comparative modelling of major house dust mite allergen Der p I: structure validation using an extended environmental amino acid propensity table. <i>Protein Engineering, Design and Selection</i> , 1994 , 7, 869-94	1.9	75
71	Minimum information about a bioactive entity (MIABE). <i>Nature Reviews Drug Discovery</i> , 2011 , 10, 661-9	64.1	69
70	Computational and Practical Aspects of Drug Repositioning. <i>Assay and Drug Development Technologies</i> , 2015 , 13, 299-306	2.1	64
69	Chemical, target, and bioactive properties of allosteric modulation. <i>PLoS Computational Biology</i> , 2014 , 10, e1003559	5	63

68	Improved large-scale prediction of growth inhibition patterns using the NCI60 cancer cell line panel. <i>Bioinformatics</i> , 2016 , 32, 85-95	7.2	60
67	PCSK9 monoclonal antibodies for the primary and secondary prevention of cardiovascular disease. <i>The Cochrane Library</i> , 2017 , 4, CD011748	5.2	57
66	Improving the odds of drug development success through human genomics: modelling study. <i>Scientific Reports</i> , 2019 , 9, 18911	4.9	54
65	The prediction and orientation of alpha-helices from sequence alignments: the combined use of environment-dependent substitution tables, Fourier transform methods and helix capping rules. <i>Protein Engineering, Design and Selection</i> , 1994 , 7, 645-53	1.9	53
64	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
63	Benchmarking of protein descriptor sets in proteochemometric modeling (part 2): modeling performance of 13 amino acid descriptor sets. <i>Journal of Cheminformatics</i> , 2013 , 5, 42	8.6	48
62	Molecular recognition in protein families: a database of aligned three-dimensional structures of related proteins. <i>Biochemical Society Transactions</i> , 1993 , 21 (Pt 3), 597-604	5.1	47
61	Open Source Drug Discovery: Highly Potent Antimalarial Compounds Derived from the Tres Cantos Arylpyrroles. <i>ACS Central Science</i> , 2016 , 2, 687-701	16.8	44
60	Nicastrin, a presenilin-interacting protein, contains an aminopeptidase/transferrin receptor superfamily domain. <i>Trends in Biochemical Sciences</i> , 2001 , 26, 213-4	10.3	44
59	Antibody informatics for drug discovery. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014 , 1844, 2002-2015	4	43
58	Discrimination of common protein folds: application of protein structure to sequence/structure comparisons. <i>Methods in Enzymology</i> , 1996 , 266, 575-98	1.7	43
57	Target prediction for an open access set of compounds active against Mycobacterium tuberculosis. <i>PLoS Computational Biology</i> , 2013 , 9, e1003253	5	42
56	Comparison of three-dimensional structures of homologous proteins. <i>Current Opinion in Structural Biology</i> , 1992 , 2, 394-401	8.1	41
55	PDBLIG: classification of small molecular protein binding in the Protein Data Bank. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 3807-16	8.3	40
54	Global analysis of small molecule binding to related protein targets. <i>PLoS Computational Biology</i> , 2012 , 8, e1002333	5	35
53	Artificial intelligence, drug repurposing and peer review. <i>Nature Biotechnology</i> , 2020 , 38, 1127-1131	44.5	35
52	Unprecedentedly Large-Scale Kinase Inhibitor Set Enabling the Accurate Prediction of Compound-Kinase Activities: A Way toward Selective Promiscuity by Design?. <i>Journal of Chemical Information and Modeling</i> , 2016 , 56, 1654-75	6.1	35
51	Chemical databases: curation or integration by user-defined equivalence?. <i>Drug Discovery Today: Technologies</i> , 2015 , 14, 17-24	7.1	32

50	Mycobacterial dihydrofolate reductase inhibitors identified using chemogenomic methods and in vitro validation. <i>PLoS ONE</i> , 2015 , 10, e0121492	3.7	32
49	The relationship between target-class and the physicochemical properties of antibacterial drugs. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 5218-24	3.4	31
48	Synthesis of macrocyclic, potential protease inhibitors using a generic scaffold. <i>Journal of Organic Chemistry</i> , 2002 , 67, 4882-92	4.2	31
47	Release of 50 new, drug-like compounds and their computational target predictions for open source anti-tubercular drug discovery. <i>PLoS ONE</i> , 2015 , 10, e0142293	3.7	30
46	diXa: a data infrastructure for chemical safety assessment. <i>Bioinformatics</i> , 2015 , 31, 1505-7	7.2	27
45	Annotating Human P-Glycoprotein Bioassay Data. <i>Molecular Informatics</i> , 2012 , 31, 599-609	3.8	27
44	Collation and data-mining of literature bioactivity data for drug discovery. <i>Biochemical Society Transactions</i> , 2011 , 39, 1365-70	5.1	27
43	UniChem: extension of InChI-based compound mapping to salt, connectivity and stereochemistry layers. <i>Journal of Cheminformatics</i> , 2014 , 6, 43	8.6	25
42	Structural and Functional View of Polypharmacology. <i>Scientific Reports</i> , 2017 , 7, 10102	4.9	24
41	A drug target slim: using gene ontology and gene ontology annotations to navigate protein-ligand target space in ChEMBL. <i>Journal of Biomedical Semantics</i> , 2016 , 7, 59	2.2	21
40	Prioritizing the proteome: identifying pharmaceutically relevant targets. <i>Drug Discovery Today</i> , 2002 , 7, 516-21	8.8	21
39	Design of selective thrombin inhibitors based on the (R)-Phe-Pro-Arg sequence. <i>Journal of Medicinal Chemistry</i> , 2002 , 45, 2432-53	8.3	21
38	Chemogenomics approaches for receptor deorphanization and extensions of the chemogenomics concept to phenotypic space. <i>Current Topics in Medicinal Chemistry</i> , 2011 , 11, 1964-77	3	18
37	A ligandS-eye view of protein similarity. <i>Nature Methods</i> , 2013 , 10, 116-7	21.6	16
36	Identification of Allosteric Modulators of Metabotropic Glutamate 7 Receptor Using Proteochemometric Modeling. <i>Journal of Chemical Information and Modeling</i> , 2017 , 57, 2976-2985	6.1	16
35	Insights into protein function through large-scale computational analysis of sequence and structure. <i>Trends in Biotechnology</i> , 2001 , 19, 61-66	15.1	16
34	myChEMBL: a virtual machine implementation of open data and cheminformatics tools. <i>Bioinformatics</i> , 2014 , 30, 298-300	7.2	15
33	Rapid analysis of pharmacology for infectious diseases. <i>Current Topics in Medicinal Chemistry</i> , 2011 , 11, 1292-300	3	15

32	Target Identification of Phenotypic Hits Using a Concerted Chemogenomic, Biophysical, and Structural Approach. <i>Frontiers in Pharmacology</i> , 2017 , 8, 681	5.6	14
31	The EBI enzyme portal. <i>Nucleic Acids Research</i> , 2013 , 41, D773-80	20.1	13
30	Cheminformatics. <i>Communications of the ACM</i> , 2012 , 55, 65-75	2.5	13
29	Insights into protein function through large-scale computational analysis of sequence and structure. <i>Trends in Biotechnology</i> , 2001 , 19, S61-6	15.1	13
28	A large-scale crop protection bioassay data set. <i>Scientific Data</i> , 2015 , 2, 150032	8.2	12
27	Scientific Lenses to Support Multiple Views over Linked Chemistry Data. <i>Lecture Notes in Computer Science</i> , 2014 , 98-113	0.9	12
26	MyChEMBL: A Virtual Platform for Distributing Cheminformatics Tools and Open Data. <i>Challenges</i> , 2014 , 5, 334-337	3.4	11
25	Mapping small molecule binding data to structural domains. <i>BMC Bioinformatics</i> , 2012 , 13 Suppl 17, S11	3.6	11
24	Protein sequence analysis in silico: application of structure-based bioinformatics to genomic initiatives. <i>Current Opinion in Pharmacology</i> , 2002 , 2, 574-80	5.1	11
23	ADME SARfari: comparative genomics of drug metabolizing systems. <i>Bioinformatics</i> , 2015 , 31, 1695-7	7.2	10
22	Rational design of non-resistant targeted cancer therapies. <i>Scientific Reports</i> , 2017 , 7, 46632	4.9	9
21	Classification and analysis of a large collection of in vivo bioassay descriptions. <i>PLoS Computational Biology</i> , 2017 , 13, e1005641	5	9
20	Setting Our Sights on Infectious Diseases. <i>ACS Infectious Diseases</i> , 2020 , 6, 3-13	5.5	9
19	PPDMs-a resource for mapping small molecule bioactivities from ChEMBL to Pfam-A protein domains. <i>Bioinformatics</i> , 2015 , 31, 776-8	7.2	8
18	A document classifier for medicinal chemistry publications trained on the ChEMBL corpus. <i>Journal of Cheminformatics</i> , 2014 , 6, 40	8.6	7
17	The functional therapeutic chemical classification system. <i>Bioinformatics</i> , 2014 , 30, 876-83	7.2	5
16	Brain: biomedical knowledge manipulation. <i>Bioinformatics</i> , 2013 , 29, 1238-9	7.2	5
15	Protein three-dimensional structural databases: domains, structurally aligned homologues and superfamilies. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1998 , 54, 1168-77		5

14	Transporter assays and assay ontologies: useful tools for drug discovery. <i>Drug Discovery Today: Technologies</i> , 2014 , 12, e47-54	7.1	4
13	The Molecular Basis of Predicting Druggability 1315-1334		3
12	Chapter 28. Recent development in cheminformatics and chemogenomics. <i>Annual Reports in Medicinal Chemistry</i> , 2003 , 38, 285-294	1.6	3
11	Modelling of the lignin peroxidase LIII of <i>Phlebia radiata</i> : use of a sequence template generated from a 3-D structure. <i>Protein Engineering, Design and Selection</i> , 1993 , 6, 177-82	1.9	3
10	Towards predictive resistance models for agrochemicals by combining chemical and protein similarity via proteochemometric modelling. <i>Journal of Chemical Biology</i> , 2014 , 7, 119-23		2
9	ChEMBL Beaker: A Lightweight Web Framework Providing Robust and Extensible Cheminformatics Services. <i>Challenges</i> , 2014 , 5, 444-449	3.4	2
8	Pleiotropic Effects of Statins. <i>Annual Reports in Medicinal Chemistry</i> , 2004 , 39, 239-258	1.6	2
7	Chapter 19. Expanding and exploring cellular pathways for novel drug targets. <i>Annual Reports in Medicinal Chemistry</i> , 2002 , 37, 187-196	1.6	2
6	Knowledge-Based Protein Modelling: Human Plasma Kallikrein and Human Neutrophil Defensin 1990 , 567-574		2
5	Structural and Functional View of Polypharmacology		2
4	Repurposing vandetanib plus everolimus for the treatment of ACVR1-mutant diffuse intrinsic pontine glioma. <i>Cancer Discovery</i> , 2021 ,	24.4	2
3	1994 ,		1
2	Symposium 1: Structure and engineering of proteins: New developments. <i>Fresenius Journal of Analytical Chemistry</i> , 1990 , 337, 1-3		
1	Knowledge-Based Protein Modeling and the Design of Novel Molecules 1990 , 209-227		