

# John P Overington

## 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.

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	Repurposing vandetanib plus everolimus for the treatment of ACVR1-mutant diffuse intrinsic pontine glioma. <i>Cancer Discovery</i> , <b>2021</b> ,	24.4	2
102	Setting Our Sights on Infectious Diseases. <i>ACS Infectious Diseases</i> , <b>2020</b> , 6, 3-13	5.5	9
101	Artificial intelligence, drug repurposing and peer review. <i>Nature Biotechnology</i> , <b>2020</b> , 38, 1127-1131	44.5	35
100	Improving the odds of drug development success through human genomics: modelling study. <i>Scientific Reports</i> , <b>2019</b> , 9, 18911	4.9	54
99	Unexplored therapeutic opportunities in the human genome. <i>Nature Reviews Drug Discovery</i> , <b>2018</b> , 17, 317-332	64.1	156
98	Drug Target Commons: A Community Effort to Build a Consensus Knowledge Base for Drug-Target Interactions. <i>Cell Chemical Biology</i> , <b>2018</b> , 25, 224-229.e2	8.2	51
97	Rational design of non-resistant targeted cancer therapies. <i>Scientific Reports</i> , <b>2017</b> , 7, 46632	4.9	9
96	PCSK9 monoclonal antibodies for the primary and secondary prevention of cardiovascular disease. <i>The Cochrane Library</i> , <b>2017</b> , 4, CD011748	5.2	57
95	A comprehensive map of molecular drug targets. <i>Nature Reviews Drug Discovery</i> , <b>2017</b> , 16, 19-34	64.1	1032
94	The druggable genome and support for target identification and validation in drug development. <i>Science Translational Medicine</i> , <b>2017</b> , 9,	17.5	212
93	Classification and analysis of a large collection of in vivo bioassay descriptions. <i>PLoS Computational Biology</i> , <b>2017</b> , 13, e1005641	5	9
92	Structural and Functional View of Polypharmacology. <i>Scientific Reports</i> , <b>2017</b> , 7, 10102	4.9	24
91	Identification of Allosteric Modulators of Metabotropic Glutamate 7 Receptor Using Proteochemometric Modeling. <i>Journal of Chemical Information and Modeling</i> , <b>2017</b> , 57, 2976-2985	6.1	16
90	The ChEMBL database in 2017. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, D945-D954	20.1	1059
89	Target Identification of Phenotypic Hits Using a Concerted Chemogenomic, Biophysical, and Structural Approach. <i>Frontiers in Pharmacology</i> , <b>2017</b> , 8, 681	5.6	14
88	Improved large-scale prediction of growth inhibition patterns using the NCI60 cancer cell line panel. <i>Bioinformatics</i> , <b>2016</b> , 32, 85-95	7.2	60
87	Open Source Drug Discovery: Highly Potent Antimalarial Compounds Derived from the Tres Cantos Arylpyrroles. <i>ACS Central Science</i> , <b>2016</b> , 2, 687-701	16.8	44

86	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> , <b>2016</b> , 7, 59	2.2	21
85	SureChEMBL: a large-scale, chemically annotated patent document database. <i>Nucleic Acids Research</i> , <b>2016</b> , 44, D1220-8	20.1	102
84	Comprehensive characterization of the Published Kinase Inhibitor Set. <i>Nature Biotechnology</i> , <b>2016</b> , 34, 95-103	44.5	191
83	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> , <b>2016</b> , 56, 1654-75	6.1	35
82	ADME SARfari: comparative genomics of drug metabolizing systems. <i>Bioinformatics</i> , <b>2015</b> , 31, 1695-7	7.2	10
81	The promise and peril of chemical probes. <i>Nature Chemical Biology</i> , <b>2015</b> , 11, 536-41	11.7	523
80	The relationship between target-class and the physicochemical properties of antibacterial drugs. <i>Bioorganic and Medicinal Chemistry</i> , <b>2015</b> , 23, 5218-24	3.4	31
79	PPDMs-a resource for mapping small molecule bioactivities from ChEMBL to Pfam-A protein domains. <i>Bioinformatics</i> , <b>2015</b> , 31, 776-8	7.2	8
78	Chemical databases: curation or integration by user-defined equivalence?. <i>Drug Discovery Today: Technologies</i> , <b>2015</b> , 14, 17-24	7.1	32
77	Activity, assay and target data curation and quality in the ChEMBL database. <i>Journal of Computer-Aided Molecular Design</i> , <b>2015</b> , 29, 885-96	4.2	79
76	Computational and Practical Aspects of Drug Repositioning. <i>Assay and Drug Development Technologies</i> , <b>2015</b> , 13, 299-306	2.1	64
75	A large-scale crop protection bioassay data set. <i>Scientific Data</i> , <b>2015</b> , 2, 150032	8.2	12
74	Mycobacterial dihydrofolate reductase inhibitors identified using chemogenomic methods and in vitro validation. <i>PLoS ONE</i> , <b>2015</b> , 10, e0121492	3.7	32
73	Release of 50 new, drug-like compounds and their computational target predictions for open source anti-tubercular drug discovery. <i>PLoS ONE</i> , <b>2015</b> , 10, e0142293	3.7	30
72	ChEMBL web services: streamlining access to drug discovery data and utilities. <i>Nucleic Acids Research</i> , <b>2015</b> , 43, W612-20	20.1	215
71	diXa: a data infrastructure for chemical safety assessment. <i>Bioinformatics</i> , <b>2015</b> , 31, 1505-7	7.2	27
70	An atlas of genetic influences on human blood metabolites. <i>Nature Genetics</i> , <b>2014</b> , 46, 543-550	36.3	695
69	A document classifier for medicinal chemistry publications trained on the ChEMBL corpus. <i>Journal of Cheminformatics</i> , <b>2014</b> , 6, 40	8.6	7

68	UniChem: extension of InChI-based compound mapping to salt, connectivity and stereochemistry layers. <i>Journal of Cheminformatics</i> , <b>2014</b> , 6, 43	8.6	25
67	Towards predictive resistance models for agrochemicals by combining chemical and protein similarity via proteochemometric modelling. <i>Journal of Chemical Biology</i> , <b>2014</b> , 7, 119-23		2
66	Antibody informatics for drug discovery. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2014</b> , 1844, 2002-2015	4	43
65	Transporter assays and assay ontologies: useful tools for drug discovery. <i>Drug Discovery Today: Technologies</i> , <b>2014</b> , 12, e47-54	7.1	4
64	The ChEMBL bioactivity database: an update. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, D1083-90	20.1	1052
63	Chemical, target, and bioactive properties of allosteric modulation. <i>PLoS Computational Biology</i> , <b>2014</b> , 10, e1003559	5	63
62	ChEMBL Beaker: A Lightweight Web Framework Providing Robust and Extensible Cheminformatics Services. <i>Challenges</i> , <b>2014</b> , 5, 444-449	3.4	2
61	The functional therapeutic chemical classification system. <i>Bioinformatics</i> , <b>2014</b> , 30, 876-83	7.2	5
60	myChEMBL: a virtual machine implementation of open data and cheminformatics tools. <i>Bioinformatics</i> , <b>2014</b> , 30, 298-300	7.2	15
59	MyChEMBL: A Virtual Platform for Distributing Cheminformatics Tools and Open Data. <i>Challenges</i> , <b>2014</b> , 5, 334-337	3.4	11
58	Scientific Lenses to Support Multiple Views over Linked Chemistry Data. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 98-113	0.9	12
57	UniChem: a unified chemical structure cross-referencing and identifier tracking system. <i>Journal of Cheminformatics</i> , <b>2013</b> , 5, 3	8.6	90
56	Benchmarking of protein descriptor sets in proteochemometric modeling (part 2): modeling performance of 13 amino acid descriptor sets. <i>Journal of Cheminformatics</i> , <b>2013</b> , 5, 42	8.6	48
55	A ligand's-eye view of protein similarity. <i>Nature Methods</i> , <b>2013</b> , 10, 116-7	21.6	16
54	Brain: biomedical knowledge manipulation. <i>Bioinformatics</i> , <b>2013</b> , 29, 1238-9	7.2	5
53	The EBI enzyme portal. <i>Nucleic Acids Research</i> , <b>2013</b> , 41, D773-80	20.1	13
52	Target prediction for an open access set of compounds active against Mycobacterium tuberculosis. <i>PLoS Computational Biology</i> , <b>2013</b> , 9, e1003253	5	42
51	Annotating Human P-Glycoprotein Bioassay Data. <i>Molecular Informatics</i> , <b>2012</b> , 31, 599-609	3.8	27

50	Mapping small molecule binding data to structural domains. <i>BMC Bioinformatics</i> , <b>2012</b> , 13 Suppl 17, S11 3.6	11
49	Global analysis of small molecule binding to related protein targets. <i>PLoS Computational Biology</i> , <b>2012</b> , 8, e1002333	5 35
48	ChEMBL: a large-scale bioactivity database for drug discovery. <i>Nucleic Acids Research</i> , <b>2012</b> , 40, D1100-7 20.1	2257
47	Cheminformatics. <i>Communications of the ACM</i> , <b>2012</b> , 55, 65-75	2.5 13
46	PSICQUIC and PSIScore: accessing and scoring molecular interactions. <i>Nature Methods</i> , <b>2011</b> , 8, 528-9 21.6	227
45	Minimum information about a bioactive entity (MIABE). <i>Nature Reviews Drug Discovery</i> , <b>2011</b> , 10, 661-9 64.1	69
44	Rapid analysis of pharmacology for infectious diseases. <i>Current Topics in Medicinal Chemistry</i> , <b>2011</b> , 11, 1292-300	3 15
43	Collation and data-mining of literature bioactivity data for drug discovery. <i>Biochemical Society Transactions</i> , <b>2011</b> , 39, 1365-70	5.1 27
42	Probing the links between in vitro potency, ADMET and physicochemical parameters. <i>Nature Reviews Drug Discovery</i> , <b>2011</b> , 10, 197-208	64.1 333
41	Chemogenomics approaches for receptor deorphanization and extensions of the chemogenomics concept to phenotypic space. <i>Current Topics in Medicinal Chemistry</i> , <b>2011</b> , 11, 1964-77	3 18
40	Ligand efficiency indices for an effective mapping of chemico-biological space: the concept of an atlas-like representation. <i>Drug Discovery Today</i> , <b>2010</b> , 15, 804-11	8.8 84
39	New open drug activity data at EBI. <i>Chemistry Central Journal</i> , <b>2009</b> , 3,	78
38	The genome of the blood fluke <i>Schistosoma mansoni</i> . <i>Nature</i> , <b>2009</b> , 460, 352-8	50.4 822
37	Genomic-scale prioritization of drug targets: the TDR Targets database. <i>Nature Reviews Drug Discovery</i> , <b>2008</b> , 7, 900-7	64.1 244
36	Can we rationally design promiscuous drugs?. <i>Current Opinion in Structural Biology</i> , <b>2006</b> , 16, 127-36	8.1 421
35	How many drug targets are there?. <i>Nature Reviews Drug Discovery</i> , <b>2006</b> , 5, 993-6	64.1 2624
34	Pleiotropic Effects of Statins. <i>Annual Reports in Medicinal Chemistry</i> , <b>2004</b> , 39, 239-258	1.6 2
33	PDBLIG: classification of small molecular protein binding in the Protein Data Bank. <i>Journal of Medicinal Chemistry</i> , <b>2004</b> , 47, 3807-16	8.3 40

32	Chapter 28. Recent development in cheminformatics and chemogenomics. <i>Annual Reports in Medicinal Chemistry</i> , <b>2003</b> , 38, 285-294	1.6	3
31	Prioritizing the proteome: identifying pharmaceutically relevant targets. <i>Drug Discovery Today</i> , <b>2002</b> , 7, 516-21	8.8	21
30	Chapter 19. Expanding and exploring cellular pathways for novel drug targets. <i>Annual Reports in Medicinal Chemistry</i> , <b>2002</b> , 37, 187-196	1.6	2
29	Synthesis of macrocyclic, potential protease inhibitors using a generic scaffold. <i>Journal of Organic Chemistry</i> , <b>2002</b> , 67, 4882-92	4.2	31
28	Design of selective thrombin inhibitors based on the (R)-Phe-Pro-Arg sequence. <i>Journal of Medicinal Chemistry</i> , <b>2002</b> , 45, 2432-53	8.3	21
27	Protein sequence analysis in silico: application of structure-based bioinformatics to genomic initiatives. <i>Current Opinion in Pharmacology</i> , <b>2002</b> , 2, 574-80	5.1	11
26	Insights into protein function through large-scale computational analysis of sequence and structure. <i>Trends in Biotechnology</i> , <b>2001</b> , 19, 61-66	15.1	16
25	Insights into protein function through large-scale computational analysis of sequence and structure. <i>Trends in Biotechnology</i> , <b>2001</b> , 19, S61-6	15.1	13
24	Nicastrin, a presenilin-interacting protein, contains an aminopeptidase/transferrin receptor superfamily domain. <i>Trends in Biochemical Sciences</i> , <b>2001</b> , 26, 213-4	10.3	44
23	HOMSTRAD: a database of protein structure alignments for homologous families. <i>Protein Science</i> , <b>1998</b> , 7, 2469-71	6.3	421
22	Protein three-dimensional structural databases: domains, structurally aligned homologues and superfamilies. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>1998</b> , 54, 1168-77		5
21	JOY: protein sequence-structure representation and analysis. <i>Bioinformatics</i> , <b>1998</b> , 14, 617-23	7.2	356
20	Discrimination of common protein folds: application of protein structure to sequence/structure comparisons. <i>Methods in Enzymology</i> , <b>1996</b> , 266, 575-98	1.7	43
19	Derivation of rules for comparative protein modeling from a database of protein structure alignments. <i>Protein Science</i> , <b>1994</b> , 3, 1582-96	6.3	261
18	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> , <b>1994</b> , 7, 869-94	1.9	75
17	<b>1994</b> ,		1
16	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> , <b>1994</b> , 7, 645-53	1.9	53
15	Fragment ranking in modelling of protein structure. Conformationally constrained environmental amino acid substitution tables. <i>Journal of Molecular Biology</i> , <b>1993</b> , 229, 194-220	6.5	110

14	Alignment and searching for common protein folds using a data bank of structural templates. <i>Journal of Molecular Biology</i> , <b>1993</b> , 231, 735-52	6.5	157
13	A structural basis for sequence comparisons. An evaluation of scoring methodologies. <i>Journal of Molecular Biology</i> , <b>1993</b> , 233, 716-38	6.5	266
12	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> , <b>1993</b> , 6, 177-82	1.9	3
11	Molecular recognition in protein families: a database of aligned three-dimensional structures of related proteins. <i>Biochemical Society Transactions</i> , <b>1993</b> , 21 ( Pt 3), 597-604	5.1	47
10	Modeling alpha-helical transmembrane domains: the calculation and use of substitution tables for lipid-facing residues. <i>Protein Science</i> , <b>1993</b> , 2, 55-70	6.3	127
9	Comparison of three-dimensional structures of homologous proteins. <i>Current Opinion in Structural Biology</i> , <b>1992</b> , 2, 394-401	8.1	41
8	Symposium 1: Structure and engineering of proteins: New developments. <i>Fresenius Journal of Analytical Chemistry</i> , <b>1990</b> , 337, 1-3		
7	From comparisons of protein sequences and structures to protein modelling and design. <i>Trends in Biochemical Sciences</i> , <b>1990</b> , 15, 235-40	10.3	134
6	Knowledge-Based Protein Modelling: Human Plasma Kallikrein and Human Neutrophil Defensin <b>1990</b> , 567-574		2
5	Knowledge-Based Protein Modeling and the Design of Novel Molecules <b>1990</b> , 209-227		
4	X-ray analysis of HIV-1 proteinase at 2.7 Å resolution confirms structural homology among retroviral enzymes. <i>Nature</i> , <b>1989</b> , 342, 299-302	50.4	428
3	18th Sir Hans Krebs lecture. Knowledge-based protein modelling and design. <i>FEBS Journal</i> , <b>1988</b> , 172, 513-20		211
2	The Molecular Basis of Predicting Druggability 1315-1334		3
1	Structural and Functional View of Polypharmacology		2