

Philip W Fowler

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.

55
papers

2,108
citations

26
h-index

45
g-index

66
ext. papers

2,772
ext. citations

7.7
avg, IF

4.56
L-index

#	Paper	IF	Citations
55	The 2021 WHO catalogue of complex mutations associated with drug resistance: A genotypic analysis. <i>Lancet Microbe, The</i> , 2022 , 3, e265-e273	22.2	3
54	Cryo-EM structure and resistance landscape of M. tuberculosis MmpL3: An emergent therapeutic target. <i>Structure</i> , 2021 , 29, 1182-1191.e4	5.2	6
53	An observational cohort study on the incidence of SARS-CoV-2 infection and B.1.1.7 variant infection in healthcare workers by antibody and vaccination status. <i>Clinical Infectious Diseases</i> , 2021 , 73, e699-e709	11.6	31
52	The Duration, Dynamics, and Determinants of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Antibody Responses in Individual Healthcare Workers. <i>Clinical Infectious Diseases</i> , 2021 , 73, e699-e709	11.6	120
51	Phylogenetically informative mutations in genes implicated in antibiotic resistance in Mycobacterium tuberculosis complex. <i>Genome Medicine</i> , 2020 , 12, 27	14.4	30
50	GenomeMap: Within-Species Genome-Wide dN/dS Estimation from over 10,000 Genomes. <i>Molecular Biology and Evolution</i> , 2020 , 37, 2450-2460	8.3	11
49	Reconciling the Potentially Irreconcilable? Genotypic and Phenotypic Amoxicillin-Clavulanate Resistance in. <i>Antimicrobial Agents and Chemotherapy</i> , 2020 , 64,	5.9	13
48	Differential occupational risks to healthcare workers from SARS-CoV-2 observed during a prospective observational study. <i>ELife</i> , 2020 , 9,	8.9	122
47	Author response: Differential occupational risks to healthcare workers from SARS-CoV-2 observed during a prospective observational study 2020 ,		4
46	How quickly can we predict trimethoprim resistance using alchemical free energy methods?. <i>Interface Focus</i> , 2020 , 10, 20190141	3.9	3
45	Scalable Pathogen Pipeline Platform (SP ³): Enabling Unified Genomic Data Analysis with Elastic Cloud Computing 2019 ,		1
44	Antibiotic resistance prediction for from genome sequence data with Mykrobe. <i>Wellcome Open Research</i> , 2019 , 4, 191	4.8	34
43	Robust Prediction of Resistance to Trimethoprim in Staphylococcus aureus. <i>Cell Chemical Biology</i> , 2018 , 25, 339-349.e4	8.2	16
42	Automated detection of bacterial growth on 96-well plates for high-throughput drug susceptibility testing of Mycobacterium tuberculosis. <i>Microbiology (United Kingdom)</i> , 2018 , 164, 1522-1530	2.9	10
41	Prediction of Susceptibility to First-Line Tuberculosis Drugs by DNA Sequencing. <i>New England Journal of Medicine</i> , 2018 , 379, 1403-1415	59.2	243
40	Validating a 14-Drug Microtiter Plate Containing Bedaquiline and Delamanid for Large-Scale Research Susceptibility Testing of Mycobacterium tuberculosis. <i>Antimicrobial Agents and Chemotherapy</i> , 2018 , 62,	5.9	31
39	Effect of the Southeast Asian Ovalocytosis Deletion on the Conformational Dynamics of Signal-Anchor Transmembrane Segment 1 of Red Cell Anion Exchanger 1 (AE1, Band 3, or SLC4A1). <i>Biochemistry</i> , 2017 , 56, 712-722	3.2	5

38	Protein crowding and lipid complexity influence the nanoscale dynamic organization of ion channels in cell membranes. <i>Scientific Reports</i> , 2017 , 7, 16647	4.9	48
37	Membrane stiffness is modified by integral membrane proteins. <i>Soft Matter</i> , 2016 , 12, 7792-7803	3.6	55
36	Roles of Interleaflet Coupling and Hydrophobic Mismatch in Lipid Membrane Phase-Separation Kinetics. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11633-42	16.4	37
35	Accurate Prediction of Ligand Affinities for a Proton-Dependent Oligopeptide Transporter. <i>Cell Chemical Biology</i> , 2016 , 23, 299-309	8.2	27
34	Membrane Compartmentalization Reducing the Mobility of Lipids and Proteins within a Model Plasma Membrane. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 8873-81	3.4	22
33	Nothing to sneeze at: a dynamic and integrative computational model of an influenza A virion. <i>Structure</i> , 2015 , 23, 584-597	5.2	71
32	Alchembed: A Computational Method for Incorporating Multiple Proteins into Complex Lipid Geometries. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 2743-2754	6.4	37
31	Crystal Structures of the Extracellular Domain from PepT1 and PepT2 Provide Novel Insights into Mammalian Peptide Transport. <i>Structure</i> , 2015 , 23, 1889-1899	5.2	30
30	Gating topology of the proton-coupled oligopeptide symporters. <i>Structure</i> , 2015 , 23, 290-301	5.2	67
29	Flexible gates generate occluded intermediates in the transport cycle of LacY. <i>Journal of Molecular Biology</i> , 2014 , 426, 735-51	6.5	49
28	State-dependent network connectivity determines gating in a K ⁺ channel. <i>Structure</i> , 2014 , 22, 1037-46	5.2	7
27	NRas slows the rate at which a model lipid bilayer phase separates. <i>Faraday Discussions</i> , 2014 , 169, 209-236	3.6	16
26	Insights into the structural nature of the transition state in the Kir channel gating pathway. <i>Channels</i> , 2014 , 8, 551-5	3	1
25	Energetics of Multi-Ion Conduction Pathways in Potassium Ion Channels. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 5176-5189	6.4	31
24	The pore of voltage-gated potassium ion channels is strained when closed. <i>Nature Communications</i> , 2013 , 4, 1872	17.4	45
23	Detailed Examination of a Single Conduction Event in a Potassium Channel. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3104-3109	6.4	6
22	Alternating access mechanism in the POT family of oligopeptide transporters. <i>EMBO Journal</i> , 2012 , 31, 3411-21	13	162
21	Crystal structure of a prokaryotic homologue of the mammalian oligopeptide-proton symporters, PepT1 and PepT2. <i>EMBO Journal</i> , 2011 , 30, 417-26	13	209

20	Functional complementation and genetic deletion studies of KirBac channels: activatory mutations highlight gating-sensitive domains. <i>Journal of Biological Chemistry</i> , 2010 , 285, 40754-61	5.4	22
19	Insights into how nucleotide-binding domains power ABC transport. <i>Structure</i> , 2009 , 17, 1213-22	5.2	38
18	Molecular modeling and simulation studies of ion channel structures, dynamics and mechanisms. <i>Methods in Cell Biology</i> , 2008 , 90, 233-65	1.8	22
17	The selectivity of K ⁺ ion channels: testing the hypotheses. <i>Biophysical Journal</i> , 2008 , 95, 5062-72	2.9	59
16	Helix-helix interactions in membrane proteins: coarse-grained simulations of glycoporphin a helix dimerization. <i>Biochemistry</i> , 2008 , 47, 10503-12	3.2	77
15	Rapid, Accurate, and Precise Calculation of Relative Binding Affinities for the SH2 Domain Using a Computational Grid. <i>Journal of Chemical Theory and Computation</i> , 2007 , 3, 1193-202	6.4	15
14	Monotopic enzymes and lipid bilayers: a comparative study. <i>Biochemistry</i> , 2007 , 46, 3108-15	3.2	31
13	Control of pH and PIP ₂ gating in heteromeric Kir4.1/Kir5.1 channels by H-Bonding at the helix-bundle crossing. <i>Channels</i> , 2007 , 1, 327-30	3	26
12	H bonding at the helix-bundle crossing controls gating in Kir potassium channels. <i>Neuron</i> , 2007 , 55, 602-14	3.9	59
11	A computational protocol for the integration of the monotopic protein prostaglandin H ₂ synthase into a phospholipid bilayer. <i>Biophysical Journal</i> , 2006 , 91, 401-10	2.9	21
10	Modelling biological complexity: a physical scientist's perspective. <i>Journal of the Royal Society Interface</i> , 2005 , 2, 267-80	4.1	83
9	Grid-based steered thermodynamic integration accelerates the calculation of binding free energies. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2005 , 363, 1999-2013	3	22
8	Large scale molecular dynamics simulation of native and mutant dihydropteroate synthase-sulphanilamide complexes suggests the molecular basis for dihydropteroate synthase drug resistance. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2005 , 363, 2055-73	3	8
7	Rapid turnaround multiplex sequencing of SARS-CoV-2: comparing tiling amplicon protocol performance		1
6	Automated detection of bacterial growth on 96-well plates for high-throughput drug susceptibility testing of <i>Mycobacterium tuberculosis</i>		2
5	Validating a 14-drug microtitre plate containing bedaquiline and delamanid for large-scale research susceptibility testing of <i>Mycobacterium tuberculosis</i>		1
4	Prediction of pyrazinamide resistance in <i>Mycobacterium tuberculosis</i> using structure-based machine learning approaches		4
3	Deciphering Bedaquiline and Clofazimine Resistance in Tuberculosis: An Evolutionary Medicine Approach		3

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| 2 | Epidemiological cutoff values for a 96-well broth microdilution plate for high-throughput research antibiotic susceptibility testing of <i>M. tuberculosis</i> | 5 |
| 1 | BashTheBug: a crowd of volunteers reproducibly and accurately measure the minimum inhibitory concentrations of 13 antitubercular drugs from photographs of 96-well broth microdilution plates | 1 |