

John Karanicolas

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.

60 papers	5,075 citations	27 h-index	67 g-index
67 ext. papers	6,180 ext. citations	8.6 avg, IF	5.53 L-index

#	Paper	IF	Citations
60	Integrative genome-wide analysis reveals EIF3A as a key downstream regulator of translational repressor protein Musashi 2 (MSI2).. <i>NAR Cancer</i> , 2022 , 4, zcac015	5.2	0
59	A clinically relevant polymorphism in the Na/taurocholate cotransporting polypeptide (NTCP) occurs at a rheostat position. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100047	5.4	4
58	Rationalizing PROTAC-Mediated Ternary Complex Formation Using Rosetta. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 1368-1382	6.1	22
57	Macromolecular modeling and design in Rosetta: recent methods and frameworks. <i>Nature Methods</i> , 2020 , 17, 665-680	21.6	165
56	Computational Design of an Allosteric Antibody Switch by Deletion and Rescue of a Complex Structural Constellation. <i>ACS Central Science</i> , 2020 , 6, 390-403	16.8	3
55	Targeting the interaction between RNA-binding protein HuR and FOXQ1 suppresses breast cancer invasion and metastasis. <i>Communications Biology</i> , 2020 , 3, 193	6.7	24
54	Target-Based Design of Promysalin Analogues Identifies a New Putative Binding Cleft in Succinate Dehydrogenase. <i>ACS Infectious Diseases</i> , 2020 , 6, 1372-1377	5.5	2
53	Machine learning classification can reduce false positives in structure-based virtual screening. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 18477-18488 ^{11.5}	11.5	47
52	Identification and Validation of an Secondary Metabolite Derivative as an Inhibitor of the Musashi-RNA Interaction. <i>Cancers</i> , 2020 , 12,	6.6	3
51	Leveraging a Low-Affinity Diazaspiro Orthosteric Fragment to Reduce Dopamine D Receptor (DR) Ligand Promiscuity across Highly Conserved Aminergic G-Protein-Coupled Receptors (GPCRs). <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 5132-5147	8.3	5
50	Isothermal Analysis of ThermoFluor Data can readily provide Quantitative Binding Affinities. <i>Scientific Reports</i> , 2019 , 9, 2650	4.9	47
49	Impact of antibiotic treatment and host innate immune pressure on enterococcal adaptation in the human bloodstream. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	13
48	Allostery in Its Many Disguises: From Theory to Applications. <i>Structure</i> , 2019 , 27, 566-578	5.2	158
47	Modulating Antibody Structure and Function through Directed Mutations and Chemical Rescue. <i>ACS Synthetic Biology</i> , 2018 , 7, 1152-1162	5.7	2
46	Promysalin Elicits Species-Selective Inhibition of <i>Pseudomonas aeruginosa</i> by Targeting Succinate Dehydrogenase. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1774-1782	16.4	46
45	Natural product derivative Gossypolone inhibits Musashi family of RNA-binding proteins. <i>BMC Cancer</i> , 2018 , 18, 809	4.8	18
44	Contribution of an unusual CDR2 element of a single domain antibody in ricin toxin binding affinity and neutralizing activity. <i>Protein Engineering, Design and Selection</i> , 2018 , 31, 277-287	1.9	2

43	Targeting CDK9 Reactivates Epigenetically Silenced Genes in Cancer. <i>Cell</i> , 2018 , 175, 1244-1258.e26	56.2	102
42	Musashi RNA-Binding Proteins as Cancer Drivers and Novel Therapeutic Targets. <i>Clinical Cancer Research</i> , 2017 , 23, 2143-2153	12.9	115
41	When Does Chemical Elaboration Induce a Ligand To Change Its Binding Mode?. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 128-145	8.3	27
40	"Solvent hydrogen-bond occlusion": A new model of polar desolvation for biomolecular energetics. <i>Journal of Computational Chemistry</i> , 2017 , 38, 1321-1331	3.5	3
39	The fungal natural product azaphilone-9 binds to HuR and inhibits HuR-RNA interaction in vitro. <i>PLoS ONE</i> , 2017 , 12, e0175471	3.7	28
38	Using homology modeling to interrogate binding affinity in neutralization of ricin toxin by a family of single domain antibodies. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017 , 85, 1994-2008	4.2	11
37	Optimal allosteric stabilization sites using contact stabilization analysis. <i>Journal of Computational Chemistry</i> , 2017 , 38, 1138-1146	3.5	1
36	Identification of novel small molecule Beclin 1 mimetics activating autophagy. <i>Oncotarget</i> , 2017 , 8, 51355-51369	3.5	2
35	Computational Screening and Design for Compounds that Disrupt Protein-protein Interactions. <i>Current Topics in Medicinal Chemistry</i> , 2017 , 17, 2703-2714	3	6
34	DARC: Mapping Surface Topography by Ray-Casting for Effective Virtual Screening at Protein Interaction Sites. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 4152-70	8.3	16
33	Novel Ricin Subunit Antigens With Enhanced Capacity to Elicit Toxin-Neutralizing Antibody Responses in Mice. <i>Journal of Pharmaceutical Sciences</i> , 2016 , 105, 1603-1613	3.9	7
32	Ultra-High-Throughput Structure-Based Virtual Screening for Small-Molecule Inhibitors of Protein-Protein Interactions. <i>Journal of Chemical Information and Modeling</i> , 2016 , 56, 399-411	6.1	32
31	Full and Partial Agonism of a Designed Enzyme Switch. <i>ACS Synthetic Biology</i> , 2016 , 5, 1475-1484	5.7	7
30	Chaperonin-Based Biolayer Interferometry To Assess the Kinetic Stability of Metastable, Aggregation-Prone Proteins. <i>Biochemistry</i> , 2016 , 55, 4885-908	3.2	5
29	Selectivity by small-molecule inhibitors of protein interactions can be driven by protein surface fluctuations. <i>PLoS Computational Biology</i> , 2015 , 11, e1004081	5	17
28	Natural product (-)-gossypol inhibits colon cancer cell growth by targeting RNA-binding protein Musashi-1. <i>Molecular Oncology</i> , 2015 , 9, 1406-20	7.9	82
27	Optogenetic Inhibitor of the Transcription Factor CREB. <i>Chemistry and Biology</i> , 2015 , 22, 1531-1539		29
26	Enhancements to the Rosetta Energy Function Enable Improved Identification of Small Molecules that Inhibit Protein-Protein Interactions. <i>PLoS ONE</i> , 2015 , 10, e0140359	3.7	16

25	DARC 2.0: Improved Docking and Virtual Screening at Protein Interaction Sites. <i>PLoS ONE</i> , 2015 , 10, e0131612	16.12	12
24	Structural properties of non-traditional drug targets present new challenges for virtual screening. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 2073-81	6.1	23
23	The designability of protein switches by chemical rescue of structure: mechanisms of inactivation and reactivation. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18840-9	16.4	21
22	Druggable protein interaction sites are more predisposed to surface pocket formation than the rest of the protein surface. <i>PLoS Computational Biology</i> , 2013 , 9, e1002951	5	64
21	Effect of single-point mutations on the stability and immunogenicity of a recombinant ricin A chain subunit vaccine antigen. <i>Human Vaccines and Immunotherapeutics</i> , 2013 , 9, 744-52	4.4	12
20	Fast docking on graphics processing units via Ray-Casting. <i>PLoS ONE</i> , 2013 , 8, e70661	3.7	8
19	Designing allosteric control into enzymes by chemical rescue of structure. <i>Journal of the American Chemical Society</i> , 2012 , 134, 10055-60	16.4	33
18	Designing orthogonal signaling pathways: how to fit in with the surroundings. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 5140-1	11.5	2
17	ROSETTA3: an object-oriented software suite for the simulation and design of macromolecules. <i>Methods in Enzymology</i> , 2011 , 487, 545-74	1.7	1216
16	Structure-based design of non-natural amino-acid inhibitors of amyloid fibril formation. <i>Nature</i> , 2011 , 475, 96-100	50.4	341
15	A de novo protein binding pair by computational design and directed evolution. <i>Molecular Cell</i> , 2011 , 42, 250-60	17.6	141
14	Hotspot-centric de novo design of protein binders. <i>Journal of Molecular Biology</i> , 2011 , 413, 1047-62	6.5	32
13	Atomic accuracy in predicting and designing noncanonical RNA structure. <i>Nature Methods</i> , 2010 , 7, 291-4	21.6	263
12	Rationally designed integrin beta3 mutants stabilized in the high affinity conformation. <i>Journal of Biological Chemistry</i> , 2009 , 284, 3917-24	5.4	32
11	The 3D profile method for identifying fibril-forming segments of proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 4074-8	11.5	325
10	Integrating folding kinetics and protein function: biphasic kinetics and dual binding specificity in a WW domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 3432-7	11.5	61
9	MMTSB Tool Set: enhanced sampling and multiscale modeling methods for applications in structural biology. <i>Journal of Molecular Graphics and Modelling</i> , 2004 , 22, 377-95	2.8	709
8	An evolution of minimalist models for protein folding: from the behavior of protein-like polymers to protein function. <i>Drug Discovery Today Biosilico</i> , 2004 , 2, 127-133		

7	The structural basis for biphasic kinetics in the folding of the WW domain from a formin-binding protein: lessons for protein design?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 3954-9	11.5	119
6	The importance of explicit chain representation in protein folding models: an examination of Ising-like models. <i>Proteins: Structure, Function and Bioinformatics</i> , 2003 , 53, 740-7	4.2	30
5	Improved G β -like models demonstrate the robustness of protein folding mechanisms towards non-native interactions. <i>Journal of Molecular Biology</i> , 2003 , 334, 309-25	6.5	175
4	The origins of asymmetry in the folding transition states of protein L and protein G. <i>Protein Science</i> , 2002 , 11, 2351-61	6.3	313
3	Site-specific incorporation of photoisomerizable azobenzene groups into ribonuclease S. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1997 , 7, 2677-2680	2.9	54
2	Rationalizing PROTAC-mediated ternary complex formation using Rosetta		5
1	Comparative Modeling of CDK9 Inhibitors to Explore Selectivity and Structure-Activity Relationships		2