

Frank Sicheiri

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.

62

papers

4,081

citations

30

h-index

63

g-index

66

ext. papers

4,971

ext. citations

15.2

avg, IF

4.98

L-index

#	Paper	IF	Citations
62	Multisite phosphorylation of a CDK inhibitor sets a threshold for the onset of DNA replication. <i>Nature</i> , 2001 , 414, 514-21	50.4	639
61	Persistence of serum and saliva antibody responses to SARS-CoV-2 spike antigens in COVID-19 patients. <i>Science Immunology</i> , 2020 , 5,	28	396
60	A dimerization-dependent mechanism drives RAF catalytic activation. <i>Nature</i> , 2009 , 461, 542-5	50.4	345
59	Higher-order substrate recognition of eIF2alpha by the RNA-dependent protein kinase PKR. <i>Cell</i> , 2005 , 122, 887-900	56.2	291
58	A strategy for modulation of enzymes in the ubiquitin system. <i>Science</i> , 2013 , 339, 590-5	33.3	199
57	The crystal structure of an Eph receptor SAM domain reveals a mechanism for modular dimerization. <i>Nature Structural Biology</i> , 1999 , 6, 44-9		199
56	Inhibition of RAS function through targeting an allosteric regulatory site. <i>Nature Chemical Biology</i> , 2017 , 13, 62-68	11.7	177
55	An allosteric inhibitor of the human Cdc34 ubiquitin-conjugating enzyme. <i>Cell</i> , 2011 , 145, 1075-87	56.2	172
54	Inhibitors that stabilize a closed RAF kinase domain conformation induce dimerization. <i>Nature Chemical Biology</i> , 2013 , 9, 428-36	11.7	120
53	An allosteric inhibitor of substrate recognition by the SCF(Cdc4) ubiquitin ligase. <i>Nature Biotechnology</i> , 2010 , 28, 733-7	44.5	118
52	Metformin reduces liver glucose production by inhibition of fructose-1-6-bisphosphatase. <i>Nature Medicine</i> , 2018 , 24, 1395-1406	50.5	113
51	Structural and biochemical characterization of the type III secretion chaperones CseT and SigE. <i>Nature Structural Biology</i> , 2001 , 8, 1031-6		112
50	Crystal structure of a BRAF kinase domain monomer explains basis for allosteric regulation. <i>Nature Structural and Molecular Biology</i> , 2015 , 22, 37-43	17.6	94
49	Dimeric structure of pseudokinase RNase L bound to 2-5A reveals a basis for interferon-induced antiviral activity. <i>Molecular Cell</i> , 2014 , 53, 221-34	17.6	90
48	Structure and mechanism of action of the hydroxy-aryl-aldehyde class of IRE1 endoribonuclease inhibitors. <i>Nature Communications</i> , 2014 , 5, 4202	17.4	78
47	Atomic structure of the KEOPS complex: an ancient protein kinase-containing molecular machine. <i>Molecular Cell</i> , 2008 , 32, 259-75	17.6	72
46	Dimerization-induced allostery in protein kinase regulation. <i>Trends in Biochemical Sciences</i> , 2014 , 39, 475-86	10.3	65

45	MEK drives BRAF activation through allosteric control of KSR proteins. <i>Nature</i> , 2018 , 554, 549-553	50.4	64
44	E2 enzyme inhibition by stabilization of a low-affinity interface with ubiquitin. <i>Nature Chemical Biology</i> , 2014 , 10, 156-163	11.7	58
43	Reconstitution and characterization of eukaryotic N6-threonylcarbamoylation of tRNA using a minimal enzyme system. <i>Nucleic Acids Research</i> , 2013 , 41, 6332-46	20.1	50
42	Inhibition of SCF ubiquitin ligases by engineered ubiquitin variants that target the Cul1 binding site on the Skp1-F-box interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 3527-32	11.5	47
41	A feed forward loop enforces YAP/TAZ signaling during tumorigenesis. <i>Nature Communications</i> , 2018 , 9, 3510	17.4	37
40	Functional characterization of a PROTAC directed against BRAF mutant V600E. <i>Nature Chemical Biology</i> , 2020 , 16, 1170-1178	11.7	34
39	Structural basis for the recruitment of glycogen synthase by glycogenin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E2831-40	11.5	33
38	Structural basis for specificity of TGF β family receptor small molecule inhibitors. <i>Cellular Signalling</i> , 2012 , 24, 476-483	4.9	33
37	Conserved structural mechanisms for autoinhibition in IpaH ubiquitin ligases. <i>Journal of Biological Chemistry</i> , 2012 , 287, 268-275	5.4	33
36	Structural and Functional Characterization of Ubiquitin Variant Inhibitors of USP15. <i>Structure</i> , 2019 , 27, 590-605.e5	5.2	32
35	OAS-RNase L innate immune pathway mediates the cytotoxicity of a DNA-demethylating drug. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 5071-5076	11.5	32
34	Higher-Order Assembly of BRCC36-KIAA0157 Is Required for DUB Activity and Biological Function. <i>Molecular Cell</i> , 2015 , 59, 970-83	17.6	31
33	Proteomic analysis of the human KEOPS complex identifies C14ORF142 as a core subunit homologous to yeast Gon7. <i>Nucleic Acids Research</i> , 2017 , 45, 805-817	20.1	31
32	Mucosal versus systemic antibody responses to SARS-CoV-2 antigens in COVID-19 patients		30
31	An allosteric conduit facilitates dynamic multisite substrate recognition by the SCF ubiquitin ligase. <i>Nature Communications</i> , 2017 , 8, 13943	17.4	28
30	Robust cullin-RING ligase function is established by a multiplicity of poly-ubiquitylation pathways. <i>ELife</i> , 2019 , 8,	8.9	20
29	Structural and functional characterization of a ubiquitin variant engineered for tight and specific binding to an alpha-helical ubiquitin interacting motif. <i>Protein Science</i> , 2017 , 26, 1060-1069	6.3	17
28	Structural and functional characterization of KEOPS dimerization by Pcc1 and its role in t6A biosynthesis. <i>Nucleic Acids Research</i> , 2016 , 44, 6971-80	20.1	17

27	Getting a handle on glycogen synthase - Its interaction with glycogenin. <i>Molecular Aspects of Medicine</i> , 2015 , 46, 63-9	16.7	15
26	A Structure-Based Strategy for Engineering Selective Ubiquitin Variant Inhibitors of Skp1-Cul1-F-Box Ubiquitin Ligases. <i>Structure</i> , 2018 , 26, 1226-1236.e3	5.2	15
25	Mechanism of catalysis, E2 recognition, and autoinhibition for the IpaH family of bacterial E3 ubiquitin ligases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 1311-1316	11.5	14
24	Structural and Functional Analysis of Ubiquitin-based Inhibitors That Target the Backsides of E2 Enzymes. <i>Journal of Molecular Biology</i> , 2020 , 432, 952-966	6.5	12
23	Structural Basis for Auto-Inhibition of the NDR1 Kinase Domain by an Atypically Long Activation Segment. <i>Structure</i> , 2018 , 26, 1101-1115.e6	5.2	12
22	Baculovirus protein PK2 subverts eIF2 γ kinase function by mimicry of its kinase domain C-lobe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E4364-73	11.5	11
21	Structural basis of Rad53 kinase activation by dimerization and activation segment exchange. <i>Cellular Signalling</i> , 2014 , 26, 1825-36	4.9	10
20	Effects of rigidity on the selectivity of protein kinase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2018 , 146, 519-528	6.8	8
19	Bora phosphorylation substitutes in trans for T-loop phosphorylation in Aurora A to promote mitotic entry. <i>Nature Communications</i> , 2021 , 12, 1899	17.4	8
18	Rigidification Dramatically Improves Inhibitor Selectivity for RAF Kinases. <i>ACS Medicinal Chemistry Letters</i> , 2019 , 10, 1074-1080	4.3	7
17	The ubiquitin interacting motifs of USP37 act on the proximal Ub of a di-Ub chain to enhance catalytic efficiency. <i>Scientific Reports</i> , 2019 , 9, 4119	4.9	7
16	Dimerization of a ubiquitin variant leads to high affinity interactions with a ubiquitin interacting motif. <i>Protein Science</i> , 2019 , 28, 848-856	6.3	7
15	A substrate binding model for the KEOPS tRNA modifying complex. <i>Nature Communications</i> , 2020 , 11, 6233	17.4	6
14	Putting the brakes on the unfolded protein response. <i>Journal of Cell Biology</i> , 2011 , 193, 17-9	7.3	6
13	Comprehensive analysis of all evolutionary paths between two divergent PDZ domain specificities. <i>Protein Science</i> , 2020 , 29, 433-442	6.3	6
12	FAM105A/OTULINL Is a Pseudodeubiquitinase of the OTU-Class that Localizes to the ER Membrane. <i>Structure</i> , 2019 , 27, 1000-1012.e6	5.2	5
11	Expression and purification of functional human glycogen synthase-1:glycogenin-1 complex in insect cells. <i>Protein Expression and Purification</i> , 2015 , 108, 23-29	2	5
10	The structural and functional workings of KEOPS. <i>Nucleic Acids Research</i> , 2021 , 49, 10818-10834	20.1	4

9	Identification and optimization of molecular glue compounds that inhibit a noncovalent E2 enzyme-ubiquitin complex. <i>Science Advances</i> , 2021 , 7, eabi5797	14.3	4
8	Aurora A kinase activation: Different means to different ends. <i>Journal of Cell Biology</i> , 2021 , 220,	7.3	4
7	A phenolic small molecule inhibitor of RNase L prevents cell death from ADAR1 deficiency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 24802-24812	11.5	3
6	Yeast Two-Hybrid Analysis for Ubiquitin Variant Inhibitors of Human Deubiquitinases. <i>Journal of Molecular Biology</i> , 2019 , 431, 1160-1171	6.5	2
5	The Eukaryotic Protein Kinase Domain 2005 , 181-209		2
4	Panel of Engineered Ubiquitin Variants Targeting the Family of Human Ubiquitin Interacting Motifs.. <i>ACS Chemical Biology</i> , 2022 ,	4.9	1
3	Bipartite binding of the N terminus of Skp2 to cyclin A. <i>Structure</i> , 2021 , 29, 975-988.e5	5.2	0
2	Comprehensive Assessment of the Relationship Between Site Specificity and Helix α in the Erbin PDZ Domain. <i>Journal of Molecular Biology</i> , 2021 , 433, 167115	6.5	
1	A suite of in vitro and in vivo assays for monitoring the activity of the pseudokinase Bud32.. <i>Methods in Enzymology</i> , 2022 , 667, 729-773	1.7	