Jack Taunton

List of Publications by Year
in descending order

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62	11,488	94433 37	155660 55
papers	citations	h-index	g-index

72	72	72	20980
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A SARS-CoV-2 protein interaction map reveals targets for drug repurposing. Nature, 2020, 583, 459-468.	27.8	3,542
2	Phase separation of signaling molecules promotes T cell receptor signal transduction. Science, 2016, 352, 595-599.	12.6	941
3	The promise and peril of chemical probes. Nature Chemical Biology, 2015, 11, 536-541.	8.0	698
4	Structural Bioinformatics-Based Design of Selective, Irreversible Kinase Inhibitors. Science, 2005, 308, 1318-1321.	12.6	470
5	The mTOR/PI3K and MAPK pathways converge on eIF4B to control its phosphorylation and activity. EMBO Journal, 2006, 25, 2781-2791.	7.8	459
6	High-frequency genome editing using ssDNA oligonucleotides with zinc-finger nucleases. Nature Methods, 2011, 8, 753-755.	19.0	427
7	Reversible targeting of noncatalytic cysteines with chemically tuned electrophiles. Nature Chemical Biology, 2012, 8, 471-476.	8.0	408
8	Prolonged and tunable residence time using reversible covalent kinase inhibitors. Nature Chemical Biology, 2015, 11, 525-531.	8.0	324
9	Broad-Spectrum Kinase Profiling in Live Cells with Lysine-Targeted Sulfonyl Fluoride Probes. Journal of the American Chemical Society, 2017, 139, 680-685.	13.7	256
10	Comparative Flavivirus-Host Protein Interaction Mapping Reveals Mechanisms of Dengue and Zika Virus Pathogenesis. Cell, 2018, 175, 1931-1945.e18.	28.9	252
11	Covalent docking of large libraries for the discovery of chemical probes. Nature Chemical Biology, 2014, 10, 1066-1072.	8.0	225
12	Design of Reversible, Cysteine-Targeted Michael Acceptors Guided by Kinetic and Computational Analysis. Journal of the American Chemical Society, 2014, 136, 12624-12630.	13.7	204
13	Decoding Mammalian Ribosome-mRNA States by Translational GTPase Complexes. Cell, 2016, 167, 1229-1240.e15.	28.9	191
14	RSK Is a Principal Effector of the RAS-ERK Pathway for Eliciting a Coordinate Promotile/Invasive Gene Program and Phenotype in Epithelial Cells. Molecular Cell, 2009, 35, 511-522.	9.7	185
15	A Polybasic Motif Allows N-WASP to Act as a Sensor of PIP2 Density. Molecular Cell, 2005, 17, 181-191.	9.7	177
16	Mechanism of Actin Network Attachment to Moving Membranes: Barbed End Capture by N-WASP WH2 Domains. Cell, 2007, 128, 901-913.	28.9	167
17	Electrophilic Fragment-Based Design of Reversible Covalent Kinase Inhibitors. Journal of the American Chemical Society, 2013, 135, 5298-5301.	13.7	162
18	A clickable inhibitor reveals context-dependent autoactivation of p90 RSK. Nature Chemical Biology, 2007, 3, 156-160.	8.0	145

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19	A substrate-specific inhibitor of protein translocation into the endoplasmic reticulum. Nature, 2005, 436, 285-289.	27.8	133
20	p90 ribosomal S6 kinase 2 promotes invasion and metastasis of human head and neck squamous cell carcinoma cells. Journal of Clinical Investigation, 2010, 120, 1165-1177.	8.2	133
21	Photo-Leucine Incorporation Reveals the Target of a Cyclodepsipeptide Inhibitor of Cotranslational Translocation. Journal of the American Chemical Society, 2007, 129, 14560-14561.	13.7	126
22	Targeting Viral Proteostasis Limits Influenza Virus, HIV, and Dengue Virus Infection. Immunity, 2016, 44, 46-58.	14.3	110
23	A Crucial Role for p90RSK-Mediated Reduction of ERK5 Transcriptional Activity in Endothelial Dysfunction and Atherosclerosis. Circulation, 2013, 127, 486-499.	1.6	103
24	Mycolactone subverts immunity by selectively blocking the Sec61 translocon. Journal of Experimental Medicine, 2016, 213, 2885-2896.	8.5	101
25	Apratoxin Kills Cells by Direct Blockade of the Sec61 Protein Translocation Channel. Cell Chemical Biology, 2016, 23, 561-566.	5.2	87
26	Selective Targeting of Distinct Active Site Nucleophiles by Irreversible Src-Family Kinase Inhibitors. Journal of the American Chemical Society, 2012, 134, 20214-20217.	13.7	86
27	Irreversible Nek2 Kinase Inhibitors with Cellular Activity. Journal of Medicinal Chemistry, 2011, 54, 4133-4146.	6.4	84
28	Lysine-Targeted Inhibitors and Chemoproteomic Probes. Annual Review of Biochemistry, 2019, 88, 365-381.	11.1	80
29	Regulation of B cell fate by chronic activity of the IgE B cell receptor. ELife, 2016, 5, .	6.0	77
30	Essential biphasic role for JAK3 catalytic activity in IL-2 receptor signaling. Nature Chemical Biology, 2016, 12, 373-379.	8.0	76
31	Engineered Covalent Inactivation of TFIIH-Kinase Reveals an Elongation Checkpoint and Results in Widespread mRNA Stabilization. Molecular Cell, 2016, 63, 433-444.	9.7	69
32	Evidence for Direct Regulation of Myocardial Na+/H+ Exchanger Isoform 1 Phosphorylation and Activity by 90-kDa Ribosomal S6 Kinase (RSK): Effects of the Novel and Specific RSK Inhibitor fmk on Responses to Î±1-Adrenergic Stimulation. Molecular Pharmacology, 2007, 71, 799-806.	2.3	60
33	Discovery of Lysine-Targeted eIF4E Inhibitors through Covalent Docking. Journal of the American Chemical Society, 2020, 142, 4960-4964.	13.7	60
34	Inhibition of Sec61-dependent translocation by mycolactone uncouples the integrated stress response from ER stress, driving cytotoxicity via translational activation of ATF4. Cell Death and Disease, 2018, 9, 397.	6.3	59
35	Chromatin Kinases Act on Transcription Factors and Histone Tails in Regulation of Inducible Transcription. Molecular Cell, 2016, 64, 347-361.	9.7	58
36	The Prometastatic Ribosomal S6 Kinase 2-cAMP Response Element-binding Protein (RSK2-CREB) Signaling Pathway Up-regulates the Actin-binding Protein Fascin-1 to Promote Tumor Metastasis. Journal of Biological Chemistry, 2013, 288, 32528-32538.	3.4	45

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37	Senescent Phenotype Induced by p90RSK-NRF2 Signaling Sensitizes Monocytes and Macrophages to Oxidative Stress in HIV-Positive Individuals. Circulation, 2019, 139, 1199-1216.	1.6	45
38	MAGI1 as a link between endothelial activation and ER stress drives atherosclerosis. JCI Insight, 2019, 4, .	5.0	45
39	Secretory Protein Profiling Reveals TNF-Î± Inactivation by Selective and Promiscuous Sec61 Modulators. Chemistry and Biology, 2011, 18, 1082-1088.	6.0	39
40	Ternatin and improved synthetic variants kill cancer cells by targeting the elongation factor-1A ternary complex. ELife, 2015, 4, .	6.0	39
41	Reversible lysine-targeted probes reveal residence time-based kinase selectivity. Nature Chemical Biology, 2022, 18, 934-941.	8.0	39
42	Ligand Conformational Bias Drives Enantioselective Modification of a Surface-Exposed Lysine on Hsp90. Journal of the American Chemical Society, 2020, 142, 3392-3400.	13.7	38
43	Hypothemycin, a fungal natural product, identifies therapeutic targets in Trypanosoma brucei. ELife, 2013, 2, e00712.	6.0	37
44	Endothelial senescence is induced by phosphorylation and nuclear export of telomeric repeat binding factor 2â€“interacting protein. JCI Insight, 2019, 4, .	5.0	34
45	Allosteric N-WASP activation by an inter-SH3 domain linker in Nck. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6436-45.	7.1	32
46	Repurposing tofacitinib as an anti-myeloma therapeutic to reverse growth-promoting effects of the bone marrow microenvironment. Haematologica, 2018, 103, 1218-1228.	3.5	30
47	Targeting Protein Kinases with Selective and Semipromiscuous Covalent Inhibitors. Methods in Enzymology, 2014, 548, 93-116.	1.0	29
48	IL-2RÎ² abundance differentially tunes IL-2 signaling dynamics in CD4 ⁺ and CD8 ⁺ T cells. Science Signaling, 2017, 10, .	3.6	24
49	Mitogen- and stress-activated protein kinase 1 is required for gonadotropin-releasing hormoneâ€“mediated activation of gonadotropin Î±-subunit expression. Journal of Biological Chemistry, 2017, 292, 20720-20731.	3.4	14
50	p90RSK-MAGI1 Module Controls Endothelial Permeability by Post-translational Modifications of MAGI1 and Hippo Pathway. Frontiers in Cardiovascular Medicine, 2020, 7, 542485.	2.4	7
51	Identifying the Cellular Target of Cordyheptapeptide A and Synthetic Derivatives. ACS Chemical Biology, 2021, 16, 1354-1364.	3.4	7
52	Inhibition of the Sec61 translocon overcomes cytokineâ€induced glucocorticoid resistance in Tâ€cell acute lymphoblastic leukaemia. British Journal of Haematology, 2022, , .	2.5	6
53	Blocking Protein Secretion and Degradation Is a Novel Treatment Strategy For Malignant Cells With High Protein Load. Blood, 2013, 122, 4439-4439.	1.4	1
54	FGFR3 Activates RSK2 To Mediate Hematopoietic Transformation through Both Tyrosine Phosphorylation of RSK2 and Activation of the MEK/ERK Pathway.. Blood, 2006, 108, 514-514.	1.4	1

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55	Proteostasis Modulators with Discriminating Taste. Chemistry and Biology, 2013, 20, 144-145.	6.0	0
56	PKAâ€RSK1 Interactions in Regulation of Cell Proliferation and Apoptosis. FASEB Journal, 2007, 21, A805.	0.5	0
57	Molecular Mechanism of Cotransin, a Potent and Selective Inhibitor of Protein Secretion. FASEB Journal, 2007, 21, A147.	0.5	0
58	p90RSK2 as a Therapeutic Target in Treatment of FGFR3-Expressing t(4;14) Multiple Myeloma.. Blood, 2007, 110, 253-253.	1.4	0
59	Rapamycin Induced Transactivation of EGFR: Implications in the Regulation of Cellular Apoptosis. FASEB Journal, 2008, 22, 645.14.	0.5	0
60	PKAâ€RSK1 Interaction Modulates RSK1 Activity and Cellular Apoptosis. FASEB Journal, 2008, 22, 645.13.	0.5	0
61	Elucidating distinct tumorigenic pathways in nodular versus superficial spreading melanoma.. Journal of Clinical Oncology, 2012, 30, 8544-8544.	1.6	0
62	Protein Translocation Inhibitors Overcome Cytokine-Induced Glucocorticoid Resistance in T-Cell Acute Lymphoblastic Leukemia. Blood, 2019, 134, 805-805.	1.4	0