Kevan M Shokat

List of Publications by Year
in descending order

175 papers	30,076 citations	11651 70 h-index	5255 165 g-index
194 all docs	194 docs citations	194 times ranked	45460 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	K-Ras(G12C) inhibitors allosterically control GTP affinity and effector interactions. Nature, 2013, 503, 548-551.	27.8	1,713
3	RAF inhibitors transactivate RAF dimers and ERK signalling in cells with wild-type BRAF. Nature, 2010, 464, 427-430.	27.8	1,590
4	The translational landscape of mTOR signalling steers cancer initiation and metastasis. Nature, 2012, 485, 55-61.	27.8	1,114
5	A chemical switch for inhibitor-sensitive alleles of any protein kinase. Nature, 2000, 407, 395-401.	27.8	1,001
6	Active-Site Inhibitors of mTOR Target Rapamycin-Resistant Outputs of mTORC1 and mTORC2. PLoS Biology, 2009, 7, e1000038.	5.6	973
7	The LuxS family of bacterial autoinducers: biosynthesis of a novel quorumâ€sensing signal molecule. Molecular Microbiology, 2001, 41, 463-476.	2.5	909
8	The Global Phosphorylation Landscape of SARS-CoV-2 Infection. Cell, 2020, 182, 685-712.e19.	28.9	825
9	Drugging the 'undruggable' cancer targets. Nature Reviews Cancer, 2017, 17, 502-508.	28.4	620
10	Targeting the cancer kinome through polypharmacology. Nature Reviews Cancer, 2010, 10, 130-137.	28.4	618
11	Features of Selective Kinase Inhibitors. Chemistry and Biology, 2005, 12, 621-637.	6.0	582
12	A dual PI3 kinase/mTOR inhibitor reveals emergent efficacy in glioma. Cancer Cell, 2006, 9, 341-349.	16.8	575
13	Comparative host-coronavirus protein interaction networks reveal pan-viral disease mechanisms. Science, 2020, 370, .	12.6	508
14	Structural Bioinformatics-Based Design of Selective, Irreversible Kinase Inhibitors. Science, 2005, 308, 1318-1321.	12.6	470
15	Direct small-molecule inhibitors of KRAS: from structural insights to mechanism-based design. Nature Reviews Drug Discovery, 2016, 15, 771-785.	46.4	457
16	Discovery of nitrateâ€“CPKâ€“NLP signalling in central nutrientâ€“growth networks. Nature, 2017, 545, 311-316.	27.8	425
17	Genetic Dissection of the Oncogenic mTOR Pathway Reveals Druggable Addiction to Translational Control via 4EBP-eIF4E. Cancer Cell, 2010, 17, 249-261.	16.8	420
18	Rewiring of Genetic Networks in Response to DNA Damage. Science, 2010, 330, 1385-1389.	12.6	408

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19	Targeted polypharmacology: discovery of dual inhibitors of tyrosine and phosphoinositide kinases. Nature Chemical Biology, 2008, 4, 691-699.	8.0	393
20	Overcoming mTOR resistance mutations with a new-generation mTOR inhibitor. Nature, 2016, 534, 272-276.	27.8	358
21	Calcium-dependent protein kinase 1 is an essential regulator of exocytosis in Toxoplasma. Nature, 2010, 465, 359-362.	27.8	321
22	The Evolution of Protein Kinase Inhibitors from Antagonists to Agonists of Cellular Signaling. Annual Review of Biochemistry, 2011, 80, 769-795.	11.1	316
23	Chemical genetic discovery of targets and anti-targets for cancer polypharmacology. Nature, 2012, 486, 80-84.	27.8	312
24	A semisynthetic epitope for kinase substrates. Nature Methods, 2007, 4, 511-516.	19.0	278
25	N-Myc Drives Neuroendocrine Prostate Cancer Initiated from Human Prostate Epithelial Cells. Cancer Cell, 2016, 29, 536-547.	16.8	278
26	Covalent capture of kinase-specific phosphopeptides reveals Cdk1-cyclin B substrates. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1442-1447.	7.1	274
27	ERK phosphorylation drives cytoplasmic accumulation of hnRNP-K and inhibition of mRNA translation. Nature Cell Biology, 2001, 3, 325-330.	10.3	267
28	Akt and Autophagy Cooperate to Promote Survival of Drug-Resistant Glioma. Science Signaling, 2010, 3, ra81.	3.6	253
29	Identifying genotype-dependent efficacy of single and combined PI3K- and MAPK-pathway inhibition in cancer. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18351-18356.	7.1	251
30	Plitidepsin has potent preclinical efficacy against SARS-CoV-2 by targeting the host protein eEF1A. Science, 2021, 371, 926-931.	12.6	247
31	Evolution of enhanced innate immune evasion by SARS-CoV-2. Nature, 2022, 602, 487-495.	27.8	237
32	Functional Organization of the S. cerevisiae Phosphorylation Network. Cell, 2009, 136, 952-963.	28.9	235
33	Drugging MYCN through an Allosteric Transition in Aurora Kinase A. Cancer Cell, 2014, 26, 414-427.	16.8	231
34	A Neo-Substrate that Amplifies Catalytic Activity of Parkinsonâ€™s-Disease-Related Kinase PINK1. Cell, 2013, 154, 737-747.	28.9	229
35	Chemical Genetics: Where Genetics and Pharmacology Meet. Cell, 2007, 128, 425-430.	28.9	228
36	Structural basis for selective inhibition of Src family kinases by PP1. Chemistry and Biology, 1999, 6, 671-678.	6.0	227

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37	A Raf-induced allosteric transition of KSR stimulates phosphorylation of MEK. Nature, 2011, 472, 366-369.	27.8	223
38	An Unbiased Cell Morphologyâ€“Based Screen for New, Biologically Active Small Molecules. PLoS Biology, 2005, 3, e128.	5.6	215
39	Design of allele-specific inhibitors to probe protein kinase signaling. Current Biology, 1998, 8, 257-266.	3.9	211
40	OCT1 is a high-capacity thiamine transporter that regulates hepatic steatosis and is a target of metformin. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9983-9988.	7.1	203
41	Structure-guided development of affinity probes for tyrosine kinases using chemical genetics. Nature Chemical Biology, 2007, 3, 229-238.	8.0	190
42	Hierarchical Modularity and the Evolution of Genetic Interactomes across Species. Molecular Cell, 2012, 46, 691-704.	9.7	185
43	Chronic TGF-Î² exposure drives stabilized EMT, tumor stemness, and cancer drug resistance with vulnerability to bitopic mTOR inhibition. Science Signaling, 2019, 12, .	3.6	166
44	Unnatural Ligands for Engineered Proteins: New Tools for Chemical Genetics. Annual Review of Biophysics and Biomolecular Structure, 2000, 29, 577-606.	18.3	156
45	Resiliency and Vulnerability in the HER2-HER3 Tumorigenic Driver. Science Translational Medicine, 2010, 2, 16ra7.	12.4	154
46	EGFR Signals to mTOR Through PKC and Independently of Akt in Glioma. Science Signaling, 2009, 2, ra4.	3.6	153
47	Identification of AMPK Phosphorylation Sites Reveals a Network of Proteins Involved in Cell Invasion and Facilitates Large-Scale Substrate Prediction. Cell Metabolism, 2015, 22, 907-921.	16.2	149
48	Drug-induced phospholipidosis confounds drug repurposing for SARS-CoV-2. Science, 2021, 373, 541-547.	12.6	148
49	Chemical genetic analysis of the budding-yeast p21-activated kinase Cla4p. Nature Cell Biology, 2000, 2, 677-685.	10.3	139
50	A Kinase Inhibitor Targeted to mTORC1 Drives Regression in Glioblastoma. Cancer Cell, 2017, 31, 424-435.	16.8	138
51	A sharp T-cell antigen receptor signaling threshold for T-cell proliferation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3679-88.	7.1	134
52	WNK1-regulated inhibitory phosphorylation of the KCC2 cotransporter maintains the depolarizing action of GABA in immature neurons. Science Signaling, 2015, 8, ra65.	3.6	133
53	Structure of the Human Autophagy Initiating Kinase ULK1 in Complex with Potent Inhibitors. ACS Chemical Biology, 2015, 10, 257-261.	3.4	132
54	p27 allosterically activates cyclin-dependent kinase 4 and antagonizes palbociclib inhibition. Science, 2019, 366, .	12.6	132

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55	Structures of PI4KIIIÎ² complexes show simultaneous recruitment of Rab11 and its effectors. Science, 2014, 344, 1035-1038.	12.6	131
56	A second-site suppressor strategy for chemical genetic analysis of diverse protein kinases. Nature Methods, 2005, 2, 435-441.	19.0	127
57	Isocitrate Dehydrogenase Mutations Confer Dasatinib Hypersensitivity and SRC Dependence in Intrahepatic Cholangiocarcinoma. Cancer Discovery, 2016, 6, 727-739.	9.4	126
58	Orm protein phosphoregulation mediates transient sphingolipid biosynthesis response to heat stress via the Pkh-Ypk and Cdc55-PP2A pathways. Molecular Biology of the Cell, 2012, 23, 2388-2398.	2.1	125
59	KRAS ^{G12C} inhibition produces a driver-limited state revealing collateral dependencies. Science Signaling, 2019, 12, .	3.6	123
60	The emerging power of chemical genetics. Current Opinion in Cell Biology, 2002, 14, 155-159.	5.4	122
61	Chemical Genetic Identification of NDR1/2 Kinase Substrates AAK1 and Rabin8ÂUncovers Their Roles in Dendrite Arborization and Spine Development. Neuron, 2012, 73, 1127-1142.	8.1	117
62	Access Denied: Snf1 Activation Loop Phosphorylation Is Controlled by Availability of the Phosphorylated Threonine 210 to the PP1 Phosphatase. Journal of Biological Chemistry, 2008, 283, 222-230.	3.4	106
63	P-TEFb regulation of transcription termination factor Xrn2 revealed by a chemical genetic screen for Cdk9 substrates. Genes and Development, 2016, 30, 117-131.	5.9	105
64	Bio-orthogonal Affinity Purification of Direct Kinase Substrates. Journal of the American Chemical Society, 2005, 127, 5288-5289.	13.7	92
65	Entry of B Cell Receptor into Signaling Domains Is Inhibited in Tolerant B Cells. Journal of Experimental Medicine, 2000, 191, 1443-1448.	8.5	84
66	Novel chemical genetic approaches to the discovery of signal transduction inhibitors. Drug Discovery Today, 2002, 7, 872-879.	6.4	84
67	Small Molecule Recognition of c-Src via the Imatinib-Binding Conformation. Chemistry and Biology, 2008, 15, 1015-1022.	6.0	84
68	Inhibition of the kinase Csk in thymocytes reveals a requirement for actin remodeling in the initiation of full TCR signaling. Nature Immunology, 2014, 15, 186-194.	14.5	84
69	Site-specific incorporation of phosphotyrosine using an expanded genetic code. Nature Chemical Biology, 2017, 13, 842-844.	8.0	82
70	Ras Binder Induces a Modified Switch-II Pocket in GTP and GDP States. Cell Chemical Biology, 2017, 24, 1455-1466.e14.	5.2	78
71	GTP-State-Selective Cyclic Peptide Ligands of K-Ras(G12D) Block Its Interaction with Raf. ACS Central Science, 2020, 6, 1753-1761.	11.3	78
72	Chemical genetic strategy for targeting protein kinases based on covalent complementarity. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15046-15052.	7.1	76

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73	A Mechanism-Based Cross-Linker for the Identification of Kinaseâ^'Substrate Pairs. Journal of the American Chemical Society, 2004, 126, 9160-9161.	13.7	75
74	MST3 Kinase Phosphorylates TAO1/2 to Enable Myosin Va Function in Promoting Spine Synapse Development. Neuron, 2014, 84, 968-982.	8.1	75
75	Synthetic Lethal Targeting of ARID1A-Mutant Ovarian Clear Cell Tumors with Dasatinib. Molecular Cancer Therapeutics, 2016, 15, 1472-1484.	4.1	73
76	Chemical Genetic Approach for Kinaseâ€Substrate Mapping by Covalent Capture of Thiophosphopeptides and Analysis by Mass Spectrometry. Current Protocols in Chemical Biology, 2010, 2, 15-36.	1.7	72
77	The Logic and Design of Analog-Sensitive Kinases and Their Small Molecule Inhibitors. Methods in Enzymology, 2014, 548, 189-213.	1.0	71
78	The Tribbles 2 (TRB2) pseudokinase binds to ATP and autophosphorylates in a metal-independent manner. Biochemical Journal, 2015, 467, 47-62.	3.7	70
79	Oncogene Mimicry as a Mechanism of Primary Resistance to BRAF Inhibitors. Cell Reports, 2014, 8, 1037-1048.	6.4	69
80	Engineering of the Myosin-Ìİ² Nucleotide-binding Pocket to Create Selective Sensitivity to N 6-modified ADP Analogs. Journal of Biological Chemistry, 1999, 274, 31373-31381.	3.4	68
81	Tuning a Three-Component Reaction For Trapping Kinase Substrate Complexes. Journal of the American Chemical Society, 2008, 130, 17568-17574.	13.7	67
82	Genetic or pharmaceutical blockade of p110Î´ phosphoinositide 3-kinase enhances IgE production. Journal of Allergy and Clinical Immunology, 2008, 122, 811-819.e2.	2.9	67
83	Quantitative and temporal requirements revealed for Zap70 catalytic activity during T cell development. Nature Immunology, 2014, 15, 687-694.	14.5	65
84	Adipocyte ALK7 links nutrient overload to catecholamine resistance in obesity. ELife, 2014, 3, e03245.	6.0	65
85	Targeting the gatekeeper residue in phosphoinositide 3-kinases. Bioorganic and Medicinal Chemistry, 2005, 13, 2825-2836.	3.0	64
86	Optimizing Small Molecule Inhibitors of Calcium-Dependent Protein Kinase 1 to Prevent Infection by Toxoplasma gondii. Journal of Medicinal Chemistry, 2013, 56, 3068-3077.	6.4	64
87	Kinome rewiring reveals AURKA limits PI3K-pathway inhibitor efficacy in breast cancer. Nature Chemical Biology, 2018, 14, 768-777.	8.0	64
88	An Antibody-Mediated Redox Reaction. Angewandte Chemie International Edition in English, 1988, 27, 1172-1174.	4.4	63
89	Expanding the Scope of Electrophiles Capable of Targeting K-Ras Oncogenes. Biochemistry, 2017, 56, 3178-3183.	2.5	60
90	Discovery and structure of a new inhibitor scaffold of the autophagy initiating kinase ULK1. Bioorganic and Medicinal Chemistry, 2015, 23, 5483-5488.	3.0	58

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91	Linking Tumor Mutations to Drug Responses via a Quantitative Chemicalâ€“Genetic Interaction Map. Cancer Discovery, 2015, 5, 154-167.	9.4	57
92	Inhibition of Calcium Dependent Protein Kinase 1 (CDPK1) by Pyrazolopyrimidine Analogs Decreases Establishment and Reoccurrence of Central Nervous System Disease by Toxoplasma gondii. Journal of Medicinal Chemistry, 2017, 60, 9976-9989.	6.4	57
93	Unbiased Proteomic Profiling Uncovers a Targetable GNAS/PKA/PP2A Axis in Small Cell Lung Cancer Stem Cells. Cancer Cell, 2020, 38, 129-143.e7.	16.8	57
94	A kinase sequence database: sequence alignments and family assignment. Bioinformatics, 2002, 18, 1274-1275.	4.1	55
95	Drugging the catalytically inactive state of RET kinase in RET-rearranged tumors. Science Translational Medicine, 2017, 9, .	12.4	55
96	A Legionella pneumophila Kinase Phosphorylates the Hsp70 Chaperone Family to Inhibit Eukaryotic Protein Synthesis. Cell Host and Microbe, 2019, 25, 454-462.e6.	11.0	54
97	Structure-Guided Inhibitor Design Expands the Scope of Analog-Sensitive Kinase Technology. ACS Chemical Biology, 2013, 8, 1931-1938.	3.4	53
98	KRAS is vulnerable to reversible switch-II pocket engagement in cells. Nature Chemical Biology, 2022, 18, 596-604.	8.0	53
99	Design and Structural Characterization of Potent and Selective Inhibitors of Phosphatidylinositol 4 Kinase IIIÎ². Journal of Medicinal Chemistry, 2016, 59, 1830-1839.	6.4	52
100	Endoplasmic reticulum stress-independent activation of unfolded protein response kinases by a small molecule ATP-mimic. ELife, 2015, 4, .	6.0	49
101	Catalytic Antibodies: A New Class of Transition-State Analogues Used to Elicit Hydrolytic Antibodies. Angewandte Chemie International Edition in English, 1990, 29, 1296-1303.	4.4	48
102	TrkB kinase activity maintains synaptic function and structural integrity at adult neuromuscular junctions. Journal of Applied Physiology, 2014, 117, 910-920.	2.5	47
103	Differential genetic interactions of yeast stress response <scp>MAPK</scp> pathways. Molecular Systems Biology, 2015, 11, 800.	7.2	47
104	Innate immunity kinase TAK1 phosphorylates Rab1 on a hotspot for posttranslational modifications by host and pathogen. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4776-83.	7.1	47
105	Novel K-Ras G12C Switch-II Covalent Binders Destabilize Ras and Accelerate Nucleotide Exchange. Journal of Chemical Information and Modeling, 2018, 58, 464-471.	5.4	45
106	A membrane capture assay for lipid kinase activity. Nature Protocols, 2007, 2, 2459-2466.	12.0	44
107	An Optimized Chromatographic Strategy for Multiplexing In Parallel Reaction Monitoring Mass Spectrometry: Insights from Quantitation of Activated Kinases. Molecular and Cellular Proteomics, 2017, 16, 265-277.	3.8	42
108	Disease-Causing Mutations in the G Protein GÎ±s Subvert the Roles of GDP and GTP. Cell, 2018, 173, 1254-1264.e11.	28.9	42

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109	PI4KIIIÎ² is a therapeutic target in chromosome 1qâ€“amplified lung adenocarcinoma. Science Translational Medicine, 2020, 12, .	12.4	41
110	Using hydrogen deuterium exchange mass spectrometry to engineer optimized constructs for crystallization of protein complexes: Case study of PI4KIIIÎ² with Rab11. Protein Science, 2016, 25, 826-839.	7.6	39
111	Long-term oral kinetin does not protect against Î±-synuclein-induced neurodegeneration in rodent models of Parkinson's disease. Neurochemistry International, 2017, 109, 106-116.	3.8	39
112	Overcoming myelosuppression due to synthetic lethal toxicity for FLT3-targeted acute myeloid leukemia therapy. ELife, 2014, 3, .	6.0	38
113	SR protein kinases promote splicing of nonconsensus introns. Nature Structural and Molecular Biology, 2015, 22, 611-617.	8.2	38
114	Discovery and functional characterization of a neomorphic PTEN mutation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13976-13981.	7.1	38
115	Small molecule inhibition of Csk alters affinity recognition by T cells. ELife, 2015, 4, .	6.0	37
116	Bifunctional Smallâ€Molecule Ligands of Kâ€Ras Induce Its Association with Immunophilin Proteins. Angewandte Chemie - International Edition, 2019, 58, 16314-16319.	13.8	36
117	Farnesyltransferase-Mediated Delivery of a Covalent Inhibitor Overcomes Alternative Prenylation to Mislocalize K-Ras. ACS Chemical Biology, 2017, 12, 1956-1962.	3.4	33
118	Chemical Genetics of Rapamycin-Insensitive TORC2 in S.Âcerevisiae. Cell Reports, 2013, 5, 1725-1736.	6.4	31
119	Staurosporine-Derived Inhibitors Broaden the Scope of Analog-Sensitive Kinase Technology. Journal of the American Chemical Society, 2013, 135, 18153-18159.	13.7	31
120	The Proprotein Convertase Subtilisin/Kexin Type 9 (PCSK9) Active Site and Cleavage Sequence Differentially Regulate Protein Secretion from Proteolysis. Journal of Biological Chemistry, 2014, 289, 29030-29043.	3.4	31
121	Inhibition of Calcium-Dependent Protein Kinase 1 (CDPK1) In Vitro by Pyrazolopyrimidine Derivatives Does Not Correlate with Sensitivity of Cryptosporidium parvum Growth in Cell Culture. Antimicrobial Agents and Chemotherapy, 2016, 60, 570-579.	3.2	31
122	A Patient-derived Xenograft Model of Pancreatic Neuroendocrine Tumors Identifies Sapanisertib as a Possible New Treatment for Everolimus-resistant Tumors. Molecular Cancer Therapeutics, 2018, 17, 2702-2709.	4.1	30
123	Overcoming resistance to HER2 inhibitors through state-specific kinase binding. Nature Chemical Biology, 2016, 12, 923-930.	8.0	29
124	Analysis of 3-phosphoinositide-dependent kinase-1 signaling and function in ES cells. Experimental Cell Research, 2008, 314, 2299-2312.	2.6	28
125	Srcâ^'Abl Tyrosine Kinase Chimeras:â€‰ Replacement of the Adenine Binding Pocket of c-Abl with v-Src To Swap Nucleotide and Inhibitor Specificities. Biochemistry, 2000, 39, 14400-14408.	2.5	26
126	Inhibition of Carbonyl Reductase 1 Safely Improves the Efficacy of Doxorubicin in Breast Cancer Treatment. Antioxidants and Redox Signaling, 2017, 26, 70-83.	5.4	26

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127	INPP4B and PTEN Loss Leads to PI-3,4-P2 Accumulation and Inhibition of PI3K in TNBC. Molecular Cancer Research, 2017, 15, 765-775.	3.4	26
128	Selective Kinase Inhibition by Exploiting Differential Pathway Sensitivity. Chemistry and Biology, 2006, 13, 399-407.	6.0	25
129	Drugging the â€œUndruggableâ€•MYCN Oncogenic Transcription Factor: Overcoming Previous Obstacles to Impact Childhood Cancers. Cancer Research, 2021, 81, 1627-1632.	0.9	25
130	Drugging the Next Undruggable KRAS Allele-Gly12Asp. Journal of Medicinal Chemistry, 2022, 65, 3119-3122.	6.4	25
131	Radiotherapy Followed by Aurora Kinase Inhibition Targets Tumor-Propagating Cells in Human Glioblastoma. Molecular Cancer Therapeutics, 2015, 14, 419-428.	4.1	23
132	Downregulation of MYCN through PI3K Inhibition in Mouse Models of Pediatric Neural Cancer. Frontiers in Oncology, 2015, 5, 111.	2.8	20
133	A new generation of mTORC1 inhibitor attenuates alcohol intake and reward in mice. Addiction Biology, 2018, 23, 713-722.	2.6	20
134	Phage-display evolution of tyrosine kinases with altered nucleotide specificity. Biopolymers, 2001, 60, 220-228.	2.4	19
135	Phosphoregulation of the oncogenic protein regulator of cytokinesis 1 (PRC1) by the atypical CDK16/CCNY complex. Experimental and Molecular Medicine, 2019, 51, 1-17.	7.7	19
136	Cooperative Blockade of PKCÎ± and JAK2 Drives Apoptosis in Glioblastoma. Cancer Research, 2020, 80, 709-718.	0.9	19
137	Responses to Glial Cell Line-Derived Neurotrophic Factor Change in Mice as Spermatogonial Stem Cells Form Progenitor Spermatogonia which Replicate and Give Rise to More Differentiated Progeny1. Biology of Reproduction, 2014, 91, 92.	2.7	17
138	Discovery of new substrates of the elongation factor-2 kinase suggests a broader role in the cellular nutrient response. Cellular Signalling, 2017, 29, 78-83.	3.6	16
139	The splicing modulator sulfonamide indisulam reduces AR-V7 in prostate cancer cells. Bioorganic and Medicinal Chemistry, 2020, 28, 115712.	3.0	16
140	Targeting KRAS G12C with Covalent Inhibitors. Annual Review of Cancer Biology, 2022, 6, 49-64.	4.5	16
141	Combination of ATP-competitive mammalian target of rapamycin inhibitors with standard chemotherapy for colorectal cancer. Investigational New Drugs, 2012, 30, 2219-2225.	2.6	15
142	Stepwise processing analyses of the single-turnover PCSK9 protease reveal its substrate sequence specificity and link clinical genotype to lipid phenotype. Journal of Biological Chemistry, 2018, 293, 1875-1886.	3.4	15
143	Analog sensitive chemical inhibition of the <scp>DEAD</scp>â€box protein <scp>DDX</scp>3. Protein Science, 2016, 25, 638-649.	7.6	14
144	Comprehensive analysis of T cell leukemia signals reveals heterogeneity in the PI3 kinase-Akt pathway and limitations of PI3 kinase inhibitors as monotherapy. PLoS ONE, 2018, 13, e0193849.	2.5	14

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145	Eine Ã¼ber AntikÃ¶rper gesteuerte Redoxreaktion. Angewandte Chemie, 1988, 100, 1227-1229.	2.0	13
146	Targeting osteosarcoma. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18100-18101.	7.1	13
147	Enhanced selectivity for inhibition of analog-sensitive protein kinases through scaffold optimization. Tetrahedron, 2007, 63, 5832-5838.	1.9	12
148	A Crosslinker Based on a Tethered Electrophile for Mapping Kinase-Substrate Networks. Chemistry and Biology, 2014, 21, 585-590.	6.0	12
149	Multistep Compositional Remodeling of Supported Lipid Membranes by Interfacially Active Phosphatidylinositol Kinases. Analytical Chemistry, 2016, 88, 5042-5045.	6.5	11
150	Type II Kinase Inhibitors Targeting Cys-Gatekeeper Kinases Display Orthogonality with Wild Type and Ala/Gly-Gatekeeper Kinases. ACS Chemical Biology, 2018, 13, 2956-2965.	3.4	10
151	Dissecting the biology of mTORC1 beyond rapamycin. Science Signaling, 2021, 14, eabe0161.	3.6	10
152	Endosomal Phosphatidylinositol 3-Kinase Is Essential for Canonical GPCR Signaling. Molecular Pharmacology, 2017, 91, 65-73.	2.3	9
153	Chemical genetic inhibition of DEAD-box proteins using covalent complementarity. Nucleic Acids Research, 2018, 46, 8689-8699.	14.5	9
154	Katalytische AntikÃ¶rper: Eine neue Klasse von Ãœbergangszustandsâ€Analoga zur Erzeugung hydrolytischer AntikÃ¶rper. Angewandte Chemie, 1990, 102, 1339-1346.	2.0	8
155	Betacellulin drives therapy resistance in glioblastoma. Neuro-Oncology, 2020, 22, 457-469.	1.2	8
156	Brain-specific inhibition of mTORC1 eliminates side effects resulting from mTORC1 blockade in the periphery and reduces alcohol intake in mice. Nature Communications, 2021, 12, 4407.	12.8	8
157	Blocking HIV entry. , 1999, 6, 906-908.		7
158	Chemicals Call Bacteria, and A New Membrane Protein Machine Answers. Cell, 2005, 121, 163-166.	28.9	7
159	A Bounty of New Challenging Targets in Oncology for Chemical Discovery. Biochemistry, 2019, 58, 3328-3330.	2.5	6
160	Spermatogonial Stem Cell Numbers Are Reduced by Transient Inhibition ofÂGDNF Signaling but Restored by Self-Renewing Replication when SignalingÂResumes. Stem Cell Reports, 2021, 16, 597-609.	4.8	6
161	Bifunctional Smallâ€Molecule Ligands of Kâ€Ras Induce Its Association with Immunophilin Proteins. Angewandte Chemie, 2019, 131, 16460-16465.	2.0	5
162	Targeting a splicing-mediated drug resistance mechanism in prostate cancer by inhibiting transcriptional regulation by PKCÎ²1. Oncogene, 2022, , .	5.9	5

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163	CD74-NRG1 Fusions Are Oncogenic In Vivo and Induce Therapeutically Tractable ERBB2:ERBB3 Heterodimerization. Molecular Cancer Therapeutics, 2022, 21, 821-830.	4.1	4
164	A Drug-Drug Interaction Crystallizes a New Entry Point into the UPR. Molecular Cell, 2010, 38, 161-163.	9.7	3
165	Chemically reprogramming the phosphoâ€transfer reaction to crosslink protein kinases to their substrates. Protein Science, 2019, 28, 654-662.	7.6	2
166	Chemical Genetic Analysis of Protein Kinase Cascades. Scientific World Journal, The, 2002, 2, 108-110.	2.1	1
167	A High-Throughput Luciferase Assay to Evaluate Proteolysis of the Single-Turnover Protease PCSK9. Journal of Visualized Experiments, 2018, , .	0.3	1
168	PI-103, a Dual Inhibitor of Class I Phosphatidylinositide 3-Kinase and mTOR, Has Anti-Leukemic Activity in Acute Myeloid Leukemia.. Blood, 2007, 110, 876-876.	1.4	1
169	The Generation of Antibody Combining Sites Containing Catalytic Residues. Novartis Foundation Symposium, 1991, 159, 118-144.	1.1	1
170	Drugging the undruggable: Ross Cagan interviews Kevan Shokat. DMM Disease Models and Mechanisms, 2022, 15, .	2.4	1
171	Corrigendum to â€œIdentification of otubain 1 as a novel substrate for theYersiniaprotein kinase using chemical genetics and mass spectrometryâ€•[FEBS Lett. 580 (2006) 179-183]. FEBS Letters, 2008, 582, 3159-3159.	2.8	0
172	Chemical Immunological Identification of Direct Kinase Substrates. FASEB Journal, 2006, 20, A76.	0.5	0
173	Chemical genetic methods for studying protein kinases. FASEB Journal, 2006, 20, A888.	0.5	0
174	Beyond the Gatekeeper: Imatinib- and Dasatinib-Resistant BCR-ABL/F317 Mutations Confer Cross-Resistance to VX-680 but Are Sensitive to a Structural Derivative of VX-680. Blood, 2008, 112, 725-725.	1.4	0
175	PI3 Kinase, Phospholipase C (PLC)-Î³, and RasGRPs Act Cooperatively to Activate the Ras-Extracellular-Related Kinase (ERK) Pathway in Response to Cytokines in Normal and Kras Mutant Myeloid Cells.. Blood, 2009, 114, 2512-2512.	1.4	0