

Benjamin E Turk

List of Publications by Year in descending order

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114
papers

12,147
citations

47006

47
h-index

26613

107
g-index

124
all docs

124
docs citations

124
times ranked

20302
citing authors

#	ARTICLE	IF	CITATIONS
1	Tousled-like kinase 2 targets ASF1 histone chaperones through client mimicry. <i>Nature Communications</i> , 2022, 13, 749.	12.8	9
2	Calcium/calmodulin-dependent protein kinase kinase 2 regulates hepatic fuel metabolism. <i>Molecular Metabolism</i> , 2022, 62, 101513.	6.5	8
3	Structure of a GRK5-Calmodulin Complex Reveals Molecular Mechanism of GRK Activation and Substrate Targeting. <i>Molecular Cell</i> , 2021, 81, 323-339.e11.	9.7	13
4	TNIK Is a Therapeutic Target in Lung Squamous Cell Carcinoma and Regulates FAK Activation through Merlin. <i>Cancer Discovery</i> , 2021, 11, 1411-1423.	9.4	26
5	PPP6C negatively regulates oncogenic ERK signaling through dephosphorylation of MEK. <i>Cell Reports</i> , 2021, 34, 108928.	6.4	17
6	Phosphorylation of Pal2 by the protein kinases Kin1 and Kin2 modulates <i>HAC1</i> mRNA splicing in the unfolded protein response in yeast. <i>Science Signaling</i> , 2021, 14, .	3.6	5
7	Phosphorylated WNK kinase networks in recoded bacteria recapitulate physiological function. <i>Cell Reports</i> , 2021, 36, 109416.	6.4	5
8	Pazopanib ameliorates acute lung injuries via inhibition of MAP3K2 and MAP3K3. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	7
9	Scaffold association factor B (SAFB) is required for expression of prenyltransferases and RAS membrane association. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31914-31922.	7.1	9
10	A kinase bioscavenger provides antibiotic resistance by extremely tight substrate binding. <i>Science Advances</i> , 2020, 6, eaaz9861.	10.3	17
11	Recognition of physiological phosphorylation sites by p21-activated kinase 4. <i>Journal of Structural Biology</i> , 2020, 211, 107553.	2.8	7
12	Global view of the RAF-MEK-ERK module and its immediate downstream effectors. <i>Scientific Reports</i> , 2019, 9, 10865.	3.3	12
13	Comprehensive profiling of the STE20 kinase family defines features essential for selective substrate targeting and signaling output. <i>PLoS Biology</i> , 2019, 17, e2006540.	5.6	41
14	Ancestral reconstruction reveals mechanisms of ERK regulatory evolution. <i>ELife</i> , 2019, 8, .	6.0	24
15	Comprehensive substrate specificity profiling of the human Nek kinome reveals unexpected signaling outputs. <i>ELife</i> , 2019, 8, .	6.0	35
16	Characterization of MAP kinase docking specificity with yeast genetic screens. <i>FASEB Journal</i> , 2019, 33, lb265.	0.5	0
17	Glycogen synthase kinase-3 β regulation: another kinase gets in on the AKT. <i>FEBS Letters</i> , 2018, 592, 535-536.	2.8	1
18	Homing in: Mechanisms of Substrate Targeting by Protein Kinases. <i>Trends in Biochemical Sciences</i> , 2018, 43, 380-394.	7.5	154

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19	<i>In Silico</i> Design and <i>In Vitro</i> Characterization of Universal Tyrosine Kinase Peptide Substrates. <i>Biochemistry</i> , 2018, 57, 1847-1851.	2.5	8
20	Filamin A Phosphorylation at Serine 2152 by the Serine/Threonine Kinase Ndr2 Controls TCR-Induced LFA-1 Activation in T Cells. <i>Frontiers in Immunology</i> , 2018, 9, 2852.	4.8	20
21	Exceptionally Selective Substrate Targeting by the Metalloprotease Anthrax Lethal Factor. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1111, 189-203.	1.6	4
22	Substrate priming enhances phosphorylation by the budding yeast kinases Kin1 and Kin2. <i>Journal of Biological Chemistry</i> , 2018, 293, 18353-18364.	3.4	3
23	Kinase Substrate Profiling Using a Proteome-wide Serine-Oriented Human Peptide Library. <i>Biochemistry</i> , 2018, 57, 4717-4725.	2.5	16
24	Identification of PNG kinase substrates uncovers interactions with the translational repressor TRAL in the oocyte-to-embryo transition. <i>ELife</i> , 2018, 7, .	6.0	20
25	Ssp2 Binding Activates the Smk1 Mitogen-Activated Protein Kinase. <i>Molecular and Cellular Biology</i> , 2017, 37, .	2.3	7
26	Differential regulation of PKD isoforms in oxidative stress conditions through phosphorylation of a conserved Tyr in the P+1 loop. <i>Scientific Reports</i> , 2017, 7, 887.	3.3	15
27	Identification of a Substrate-selective Exosite within the Metalloproteinase Anthrax Lethal Factor. <i>Journal of Biological Chemistry</i> , 2017, 292, 814-825.	3.4	11
28	Rational Redesign of a Functional Protein Kinase-Substrate Interaction. <i>ACS Chemical Biology</i> , 2017, 12, 1194-1198.	3.4	16
29	A high throughput assay to identify substrate-selective inhibitors of the ERK protein kinases. <i>Biochemical Pharmacology</i> , 2017, 142, 39-45.	4.4	9
30	Csk-homologous kinase (Chk) is an efficient inhibitor of Src-family kinases but a poor catalyst of phosphorylation of their C-terminal regulatory tyrosine. <i>Cell Communication and Signaling</i> , 2017, 15, 29.	6.5	10
31	Structural Basis for Noncanonical Substrate Recognition of Cofilin/ADF Proteins by LIM Kinases. <i>Molecular Cell</i> , 2016, 62, 397-408.	9.7	44
32	Control of serotonin transporter phosphorylation by conformational state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E2776-83.	7.1	40
33	Loss of TRIM33 causes resistance to BET bromodomain inhibitors through MYC- and TGF- β -dependent mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4558-66.	7.1	40
34	Structure of the Human Protein Kinase ZAK in Complex with Vemurafenib. <i>ACS Chemical Biology</i> , 2016, 11, 1595-1602.	3.4	19
35	Analysis of Protein Tyrosine Kinase Specificity Using Positional Scanning Peptide Microarrays. <i>Methods in Molecular Biology</i> , 2016, 1352, 27-34.	0.9	2
36	Rapid Identification of Protein Kinase Phosphorylation Site Motifs Using Combinatorial Peptide Libraries. <i>Methods in Molecular Biology</i> , 2016, 1360, 203-216.	0.9	22

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37	Inhibitors of the Metalloproteinase Anthrax Lethal Factor. <i>Current Topics in Medicinal Chemistry</i> , 2016, 16, 2350-2358.	2.1	9
38	Comparative Analysis of Two Gene-Targeting Approaches Challenges the Tumor-Suppressive Role of the Protein Kinase MK5/PRAK. <i>PLoS ONE</i> , 2015, 10, e0136138.	2.5	15
39	Signaling, Regulation, and Specificity of the Type II p21-activated Kinases. <i>Journal of Biological Chemistry</i> , 2015, 290, 12975-12983.	3.4	51
40	Small Molecule Inhibition of the Autophagy Kinase ULK1 and Identification of ULK1 Substrates. <i>Molecular Cell</i> , 2015, 59, 285-297.	9.7	561
41	Structure and vascular function of MEKK3“cerebral cavernous malformations 2 complex. <i>Nature Communications</i> , 2015, 6, 7937.	12.8	69
42	Kinome-wide Decoding of Network-Attacking Mutations Rewiring Cancer Signaling. <i>Cell</i> , 2015, 163, 202-217.	28.9	168
43	Unmasking Determinants of Specificity in the Human Kinome. <i>Cell</i> , 2015, 163, 187-201.	28.9	86
44	Biochemical characterization of FIKK8 “ A unique protein kinase from the malaria parasite <i>Plasmodium falciparum</i> and other apicomplexans. <i>Molecular and Biochemical Parasitology</i> , 2015, 201, 85-89.	1.1	14
45	Elucidating Anthrax Lethal Factor Interactions with MAP Kinase Kinase Substrates. <i>FASEB Journal</i> , 2015, 29, 894.4.	0.5	0
46	The <i>Toxoplasma</i> Pseudokinase ROP5 Forms Complexes with ROP18 and ROP17 Kinases that Synergize to Control Acute Virulence in Mice. <i>Cell Host and Microbe</i> , 2014, 15, 537-550.	11.0	230
47	Phosphoproteomic analysis identifies the tumor suppressor PDCD4 as a RSK substrate negatively regulated by 14-3-3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2918-27.	7.1	70
48	Modulation of the Chromatin Phosphoproteome by the Haspin Protein Kinase. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 1724-1740.	3.8	37
49	An AMPK-Independent Signaling Pathway Downstream of the LKB1 Tumor Suppressor Controls Snail1 and Metastatic Potential. <i>Molecular Cell</i> , 2014, 55, 436-450.	9.7	105
50	Global Analysis of Human Nonreceptor Tyrosine Kinase Specificity Using High-Density Peptide Microarrays. <i>Journal of Proteome Research</i> , 2014, 13, 4339-4346.	3.7	42
51	Early Steps in Autophagy Depend on Direct Phosphorylation of Atg9 by the Atg1 Kinase. <i>Molecular Cell</i> , 2014, 53, 471-483.	9.7	274
52	Identification of a Major Determinant for Serine-Threonine Kinase Phosphoacceptor Specificity. <i>Molecular Cell</i> , 2014, 53, 140-147.	9.7	91
53	Ancestral resurrection reveals evolutionary mechanisms of kinase plasticity. <i>ELife</i> , 2014, 3, .	6.0	53
54	mTORC1 Phosphorylation Sites Encode Their Sensitivity to Starvation and Rapamycin. <i>Science</i> , 2013, 341, 1236566.	12.6	383

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55	Construction of human activity-based phosphorylation networks. <i>Molecular Systems Biology</i> , 2013, 9, 655.	7.2	153
56	Coupling Protein Engineering with Probe Design To Inhibit and Image Matrix Metalloproteinases with Controlled Specificity. <i>Journal of the American Chemical Society</i> , 2013, 135, 9139-9148.	13.7	35
57	Exploiting the Unique ATP-Binding Pocket of <i>Toxoplasma</i> Calcium-Dependent Protein Kinase 1 To Identify Its Substrates. <i>ACS Chemical Biology</i> , 2013, 8, 1155-1162.	3.4	54
58	Substrate and Inhibitor Specificity of the Type II p21-Activated Kinase, PAK6. <i>PLoS ONE</i> , 2013, 8, e77818.	2.5	19
59	Reciprocal Phosphorylation of Yeast Glycerol-3-Phosphate Dehydrogenases in Adaptation to Distinct Types of Stress. <i>Molecular and Cellular Biology</i> , 2012, 32, 4705-4717.	2.3	99
60	Identification of neuronal substrates implicates Pak5 in synaptic vesicle trafficking. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4116-4121.	7.1	20
61	Cyclic GMP-dependent Stimulation of Serotonin Transport Does Not Involve Direct Transporter Phosphorylation by cGMP-dependent Protein Kinase. <i>Journal of Biological Chemistry</i> , 2012, 287, 36051-36058.	3.4	15
62	Type II p21-activated kinases (PAKs) are regulated by an autoinhibitory pseudosubstrate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 16107-16112.	7.1	73
63	A Peptide Photoaffinity Probe Specific for the Active Conformation of the Abl Tyrosine Kinase. <i>ChemBioChem</i> , 2012, 13, 2510-2512.	2.6	5
64	Analysis of substrate specificity and cyclin Y binding of PCTAIRE-1 kinase. <i>Cellular Signalling</i> , 2012, 24, 2085-2094.	3.6	17
65	Identification of Exosite-Targeting Inhibitors of Anthrax Lethal Factor by High-Throughput Screening. <i>Chemistry and Biology</i> , 2012, 19, 875-882.	6.0	21
66	Corrigendum to "Purification and characterization of tagless recombinant human elongation factor 2 kinase (eEF-2K) expressed in <i>Escherichia coli</i> " [<i>Protein Expression and Purification</i> 79 (2011) 237-244]. <i>Protein Expression and Purification</i> , 2012, 85, 250.	1.3	0
67	Purification and characterization of tagless recombinant human elongation factor 2 kinase (eEF-2K) expressed in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2011, 79, 237-244.	1.3	25
68	Identification of specificity determining residues in peptide recognition domains using an information theoretic approach applied to large-scale binding maps. <i>BMC Biology</i> , 2011, 9, 53.	3.8	16
69	Deciphering Protein Kinase Specificity Through Large-Scale Analysis of Yeast Phosphorylation Site Motifs. <i>Science Signaling</i> , 2010, 3, ra12.	3.6	341
70	MOTIPS: Automated Motif Analysis for Predicting Targets of Modular Protein Domains. <i>BMC Bioinformatics</i> , 2010, 11, 243.	2.6	28
71	Designed Inhibitors of Insulin-Degrading Enzyme Regulate the Catabolism and Activity of Insulin. <i>PLoS ONE</i> , 2010, 5, e10504.	2.5	91
72	The Arabidopsis ABA-Activated Kinase OST1 Phosphorylates the bZIP Transcription Factor ABF3 and Creates a 14-3-3 Binding Site Involved in Its Turnover. <i>PLoS ONE</i> , 2010, 5, e13935.	2.5	197

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73	Analysis of Serine&Threonine Kinase Specificity Using Arrayed Positional Scanning Peptide Libraries. <i>Current Protocols in Molecular Biology</i> , 2010, 91, Unit 18.14.	2.9	13
74	Structural Bases of PAS Domain-regulated Kinase (PASK) Activation in the Absence of Activation Loop Phosphorylation. <i>Journal of Biological Chemistry</i> , 2010, 285, 41034-41043.	3.4	26
75	Phosphorylation of Immunity-Related GTPases by a <i>Toxoplasma gondii</i> -Secreted Kinase Promotes Macrophage Survival and Virulence. <i>Cell Host and Microbe</i> , 2010, 8, 484-495.	11.0	286
76	Kinase Domain Insertions Define Distinct Roles of CLK Kinases in SR Protein Phosphorylation. <i>Structure</i> , 2009, 17, 352-362.	3.3	106
77	Structural recognition of an optimized substrate for the ephrin family of receptor tyrosine kinases. <i>FEBS Journal</i> , 2009, 276, 4395-4404.	4.7	26
78	Structural insights into the inhibited states of the Mer receptor tyrosine kinase. <i>Journal of Structural Biology</i> , 2009, 165, 88-96.	2.8	47
79	Mixture-Based Peptide Libraries for Identifying Protease Cleavage Motifs. <i>Methods in Molecular Biology</i> , 2009, 539, 79-91.	0.9	3
80	Understanding and exploiting substrate recognition by protein kinases. <i>Current Opinion in Chemical Biology</i> , 2008, 12, 4-10.	6.1	64
81	Linear Motif Atlas for Phosphorylation-Dependent Signaling. <i>Science Signaling</i> , 2008, 1, ra2.	3.6	418
82	Activation segment dimerization: a mechanism for kinase autophosphorylation of non-consensus sites. <i>EMBO Journal</i> , 2008, 27, 704-714.	7.8	147
83	A versatile strategy to define the phosphorylation preferences of plant protein kinases and screen for putative substrates. <i>Plant Journal</i> , 2008, 55, 104-117.	5.7	123
84	Structure of the Human Protein Kinase MPSK1 Reveals an Atypical Activation Loop Architecture. <i>Structure</i> , 2008, 16, 115-124.	3.3	38
85	AMPK Phosphorylation of Raptor Mediates a Metabolic Checkpoint. <i>Molecular Cell</i> , 2008, 30, 214-226.	9.7	3,147
86	Structural Coupling of SH2-Kinase Domains Links Fes and Abl Substrate Recognition and Kinase Activation. <i>Cell</i> , 2008, 134, 793-803.	28.9	190
87	Substrate Discrimination among Mitogen-activated Protein Kinases through Distinct Docking Sequence Motifs. <i>Journal of Biological Chemistry</i> , 2008, 283, 19511-19520.	3.4	130
88	Discovery and Development of Anthrax Lethal Factor Metalloproteinase Inhibitors. <i>Current Pharmaceutical Biotechnology</i> , 2008, 9, 24-33.	1.6	44
89	Specificity Profiling of Pak Kinases Allows Identification of Novel Phosphorylation Sites. <i>Journal of Biological Chemistry</i> , 2007, 282, 15667-15678.	3.4	116
90	I κ B Kinase I κ B Phosphorylates the K63 Deubiquitinase A20 To Cause Feedback Inhibition of the NF- κ B Pathway. <i>Molecular and Cellular Biology</i> , 2007, 27, 7451-7461.	2.3	158

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91	Manipulation of host signalling pathways by anthrax toxins. <i>Biochemical Journal</i> , 2007, 402, 405-417.	3.7	134
92	Structural and Functional Characterization of the Human Protein Kinase ASK1. <i>Structure</i> , 2007, 15, 1215-1226.	3.3	98
93	MMP-20 Is Predominately a Tooth-Specific Enzyme with a Deep Catalytic Pocket that Hydrolyzes Type V Collagen. <i>Biochemistry</i> , 2006, 45, 3863-3874.	2.5	39
94	Determining protein kinase substrate specificity by parallel solution-phase assay of large numbers of peptide substrates. <i>Nature Protocols</i> , 2006, 1, 375-379.	12.0	66
95	Identification of Yin-Yang Regulators and a Phosphorylation Consensus for Male Germ Cell-Associated Kinase (MAK)-Related Kinase. <i>Molecular and Cellular Biology</i> , 2006, 26, 8639-8654.	2.3	76
96	Measuring kinase activity: finding needles in a haystack. <i>Nature Methods</i> , 2005, 2, 251-252.	19.0	6
97	Structure and Substrate Specificity of the Pim-1 Kinase. <i>Journal of Biological Chemistry</i> , 2005, 280, 41675-41682.	3.4	164
98	A Multi-enzyme Cascade of Hemoglobin Proteolysis in the Intestine of Blood-feeding Hookworms. <i>Journal of Biological Chemistry</i> , 2004, 279, 35950-35957.	3.4	155
99	A rapid method for determining protein kinase phosphorylation specificity. <i>Nature Methods</i> , 2004, 1, 27-29.	19.0	340
100	The structural basis for substrate and inhibitor selectivity of the anthrax lethal factor. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 60-66.	8.2	182
101	Identification of small molecule inhibitors of anthrax lethal factor. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 67-72.	8.2	136
102	Using peptide libraries to identify optimal cleavage motifs for proteolytic enzymes. <i>Methods</i> , 2004, 32, 398-405.	3.8	21
103	Peptide libraries: at the crossroads of proteomics and bioinformatics. <i>Drug Discovery Today</i> , 2004, 9, S47-52.	6.4	0
104	Peptide libraries: at the crossroads of proteomics and bioinformatics. <i>Current Opinion in Chemical Biology</i> , 2003, 7, 84-90.	6.1	51
105	Binding Specificity and Regulation of the Serine Protease and PDZ Domains of HtrA2/Omi. <i>Journal of Biological Chemistry</i> , 2003, 278, 49417-49427.	3.4	116
106	Peptide Substrate Specificities and Protein Cleavage Sites of Human Endometase/Matrilysin-2/Matrix Metalloproteinase-26. <i>Journal of Biological Chemistry</i> , 2002, 277, 35168-35175.	3.4	54
107	Determination of protease cleavage site motifs using mixture-based oriented peptide libraries. <i>Nature Biotechnology</i> , 2001, 19, 661-667.	17.5	524
108	Marked Differences between Metalloproteases Meprin A and B in Substrate and Peptide Bond Specificity. <i>Journal of Biological Chemistry</i> , 2001, 276, 13248-13255.	3.4	103

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109	Selective inhibition of amino-terminal methionine processing by TNP-470 and ovalicin in endothelial cells. <i>Chemistry and Biology</i> , 1999, 6, 823-833.	6.0	93
110	Enhanced potency of perfluorinated thalidomide derivatives for inhibition of LPS-induced tumor necrosis factor- α production is associated with a change of mechanism of action. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1998, 8, 1071-1076.	2.2	21
111	Synthetic analogues of TNP-470 and ovalicin reveal a common molecular basis for inhibition of angiogenesis and immunosuppression In honor of Professor Stuart Schreiber for his pioneering contributions to the interface between chemistry and biology.1. <i>Bioorganic and Medicinal Chemistry</i> , 1998, 6, 1163-1169.	3.0	51
112	Methionine aminopeptidase (type 2) is the common target for angiogenesis inhibitors AGM-1470 and ovalicin. <i>Chemistry and Biology</i> , 1997, 4, 461-471.	6.0	388
113	Potent Inhibition of Tumor Necrosis Factor- α Production by Tetrafluorothalidomide and Tetrafluorophthalimides. <i>Journal of Medicinal Chemistry</i> , 1996, 39, 3044-3045.	6.4	59
114	Intramolecular photocycloaddition reactions of 3-(2-propenoxy)cyclopent-2-en-1-ones and 3-(2-propenoxy)cyclohex-2-en-1-ones. <i>Journal of Organic Chemistry</i> , 1992, 57, 4632-4638.	3.2	12