

Michael B Yaffe

List of Publications by Year in descending order

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132
papers

13,446
citations

61687

45
h-index

32181

105
g-index

290
all docs

290
docs citations

290
times ranked

22237
citing authors

#	ARTICLE	IF	CITATIONS
1	Scansite 2.0: proteome-wide prediction of cell signaling interactions using short sequence motifs. <i>Nucleic Acids Research</i> , 2003, 31, 3635-3641.	6.5	1,455
2	Systematic Discovery of In Vivo Phosphorylation Networks. <i>Cell</i> , 2007, 129, 1415-1426.	13.5	702
3	The Molecular Basis for Phosphodependent Substrate Targeting and Regulation of Plks by the Polo-Box Domain. <i>Cell</i> , 2003, 115, 83-95.	13.5	687
4	Proteomic Screen Finds pSer/pThr-Binding Domain Localizing Plk1 to Mitotic Substrates. <i>Science</i> , 2003, 299, 1228-1231.	6.0	634
5	Polo-like kinase-1 is activated by aurora A to promote checkpoint recovery. <i>Nature</i> , 2008, 455, 119-123.	13.7	596
6	The PX domains of p47phox and p40phox bind to lipid products of PI(3)K. <i>Nature Cell Biology</i> , 2001, 3, 675-678.	4.6	567
7	p53-Deficient Cells Rely on ATM- and ATR-Mediated Checkpoint Signaling through the p38MAPK/MK2 Pathway for Survival after DNA Damage. <i>Cancer Cell</i> , 2007, 11, 175-189.	7.7	538
8	A motif-based profile scanning approach for genome-wide prediction of signaling pathways. <i>Nature Biotechnology</i> , 2001, 19, 348-353.	9.4	509
9	Kinases that control the cell cycle in response to DNA damage: Chk1, Chk2, and MK2. <i>Current Opinion in Cell Biology</i> , 2009, 21, 245-255.	2.6	458
10	Tissue plasminogen activator (tPA) treatment for COVID-19 associated acute respiratory distress syndrome (ARDS): A case series. <i>Journal of Thrombosis and Haemostasis</i> , 2020, 18, 1752-1755.	1.9	456
11	MAPKAP Kinase-2 Is a Cell Cycle Checkpoint Kinase that Regulates the G2/M Transition and S Phase Progression in Response to UV Irradiation. <i>Molecular Cell</i> , 2005, 17, 37-48.	4.5	385
12	mTORC1 Phosphorylation Sites Encode Their Sensitivity to Starvation and Rapamycin. <i>Science</i> , 2013, 341, 1236566.	6.0	383
13	Phosphoserine/threonine-binding domains. <i>Current Opinion in Cell Biology</i> , 2001, 13, 131-138.	2.6	331
14	Phosphotyrosine-binding domains in signal transduction. <i>Nature Reviews Molecular Cell Biology</i> , 2002, 3, 177-186.	16.1	328
15	MAP kinase pathways activated by stress: The p38 MAPK pathway. <i>Critical Care Medicine</i> , 2000, 28, N67-N77.	0.4	293
16	The bromodomain protein Brd4 insulates chromatin from DNA damage signalling. <i>Nature</i> , 2013, 498, 246-250.	13.7	278
17	Chemical Genetic Screen for AMPK ^{±2} Substrates Uncovers a Network of Proteins Involved in Mitosis. <i>Molecular Cell</i> , 2011, 44, 878-892.	4.5	232
18	Enhanced efficacy of combined temozolomide and bromodomain inhibitor therapy for gliomas using targeted nanoparticles. <i>Nature Communications</i> , 2018, 9, 1991.	5.8	229

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19	14-3-3 β controls mitotic translation to facilitate cytokinesis. <i>Nature</i> , 2007, 446, 329-332.	13.7	217
20	DNA Damage Activates a Spatially Distinct Late Cytoplasmic Cell-Cycle Checkpoint Network Controlled by MK2-Mediated RNA Stabilization. <i>Molecular Cell</i> , 2010, 40, 34-49.	4.5	210
21	Pyruvate Kinase Isoform Expression Alters Nucleotide Synthesis to Impact Cell Proliferation. <i>Molecular Cell</i> , 2015, 57, 95-107.	4.5	209
22	Dihydropyrimidine Accumulation Is Required for the Epithelial-Mesenchymal Transition. <i>Cell</i> , 2014, 158, 1094-1109.	13.5	186
23	ISTH interim guidance on recognition and management of coagulopathy in COVID-19: A comment. <i>Journal of Thrombosis and Haemostasis</i> , 2020, 18, 2060-2063.	1.9	178
24	A Nanoparticle-Based Combination Chemotherapy Delivery System for Enhanced Tumor Killing by Dynamic Rewiring of Signaling Pathways. <i>Science Signaling</i> , 2014, 7, ra44.	1.6	172
25	Plk1 Self-Organization and Priming Phosphorylation of HsCYK-4 at the Spindle Midzone Regulate the Onset of Division in Human Cells. <i>PLoS Biology</i> , 2009, 7, e1000111.	2.6	170
26	Coordinated Splicing of Regulatory Detained Introns within Oncogenic Transcripts Creates an Exploitable Vulnerability in Malignant Glioma. <i>Cancer Cell</i> , 2017, 32, 411-426.e11.	7.7	161
27	Synergistic Innate and Adaptive Immune Response to Combination Immunotherapy with Anti-Tumor Antigen Antibodies and Extended Serum Half-Life IL-2. <i>Cancer Cell</i> , 2015, 27, 489-501.	7.7	158
28	Acidification of Tumor at Stromal Boundaries Drives Transcriptome Alterations Associated with Aggressive Phenotypes. <i>Cancer Research</i> , 2019, 79, 1952-1966.	0.4	157
29	Structural and functional analyses of minimal phosphopeptides targeting the polo-box domain of polo-like kinase 1. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 876-882.	3.6	156
30	Spatial Exclusivity Combined with Positive and Negative Selection of Phosphorylation Motifs Is the Basis for Context-Dependent Mitotic Signaling. <i>Science Signaling</i> , 2011, 4, ra42.	1.6	155
31	Serendipitous alkylation of a Plk1 ligand uncovers a new binding channel. <i>Nature Chemical Biology</i> , 2011, 7, 595-601.	3.9	96
32	Protein Regulation in Signal Transduction. <i>Cold Spring Harbor Perspectives in Biology</i> , 2016, 8, a005918.	2.3	94
33	ROS and Oxidative Stress Are Elevated in Mitosis during Asynchronous Cell Cycle Progression and Are Exacerbated by Mitotic Arrest. <i>Cell Systems</i> , 2019, 8, 163-167.e2.	2.9	92
34	Pan-TAM Tyrosine Kinase Inhibitor BMS-777607 Enhances Anti-PD-1 mAb Efficacy in a Murine Model of Triple-Negative Breast Cancer. <i>Cancer Research</i> , 2019, 79, 2669-2683.	0.4	86
35	A Reversible Gene-Targeting Strategy Identifies Synthetic Lethal Interactions between MK2 and p53 in the DNA Damage Response In Vivo. <i>Cell Reports</i> , 2013, 5, 868-877.	2.9	85
36	BRD4 prevents the accumulation of R-loops and protects against transcription-replication collision events and DNA damage. <i>Nature Communications</i> , 2020, 11, 4083.	5.8	83

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37	The Use of In Vitro Peptide-Library Screens in the Analysis of Phosphoserine/Threonine-Binding Domain Structure and Function. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2004, 33, 225-244.	18.3	78
38	MK2 contributes to tumor progression by promoting M2 macrophage polarization and tumor angiogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4236-E4244.	3.3	78
39	Is there a role for tissue plasminogen activator as a novel treatment for refractory COVID-19 associated acute respiratory distress syndrome?. <i>Journal of Trauma and Acute Care Surgery</i> , 2020, 88, 713-714.	1.1	77
40	Combined experimental and computational analysis of DNA damage signaling reveals context-dependent roles for Erk in apoptosis and G1/S arrest after genotoxic stress. <i>Molecular Systems Biology</i> , 2012, 8, 568.	3.2	72
41	Phosphorylation of ETS1 by Src Family Kinases Prevents Its Recognition by the COP1 Tumor Suppressor. <i>Cancer Cell</i> , 2014, 26, 222-234.	7.7	71
42	Identification of High Affinity Polo-like Kinase 1 (Plk1) Polo-box Domain Binding Peptides Using Oxime-Based Diversification. <i>ACS Chemical Biology</i> , 2012, 7, 805-810.	1.6	68
43	A Pleiotropic RNA-Binding Protein Controls Distinct Cell Cycle Checkpoints to Drive Resistance of p53-Defective Tumors to Chemotherapy. <i>Cancer Cell</i> , 2015, 28, 623-637.	7.7	68
44	Kinetics and Role of Plasma Matrix Metalloproteinase-9 Expression in Acute Lung Injury and the Acute Respiratory Distress Syndrome. <i>Shock</i> , 2015, 44, 128-136.	1.0	60
45	Tumor-Targeted Synergistic Blockade of MAPK and PI3K from a Layer-by-Layer Nanoparticle. <i>Clinical Cancer Research</i> , 2015, 21, 4410-4419.	3.2	55
46	Why geneticists stole cancer research even though cancer is primarily a signaling disease. <i>Science Signaling</i> , 2019, 12, .	1.6	52
47	Modeling chemotherapy-induced stress to identify rational combination therapies in the DNA damage response pathway. <i>Science Signaling</i> , 2018, 11, .	1.6	46
48	Comprehensive profiling of the STE20 kinase family defines features essential for selective substrate targeting and signaling output. <i>PLoS Biology</i> , 2019, 17, e2006540.	2.6	41
49	Peptoid-Peptide Hybrid Ligands Targeting the Polo Box Domain of Polo-Like Kinase 1. <i>ChemBioChem</i> , 2012, 13, 1291-1296.	1.3	38
50	Fibrinolytic therapy for refractory COVID-19 acute respiratory distress syndrome: Scientific rationale and review. <i>Research and Practice in Thrombosis and Haemostasis</i> , 2020, 4, 524-531.	1.0	37
51	Is post-transcriptional stabilization, splicing and translation of selective mRNAs a key to the DNA damage response?. <i>Cell Cycle</i> , 2011, 10, 23-27.	1.3	36
52	Study of Alteplase for Respiratory Failure in SARS-CoV-2 COVID-19. <i>Chest</i> , 2022, 161, 710-727.	0.4	36
53	TAZ couples Hippo/Wnt signalling and insulin sensitivity through Irs1 expression. <i>Nature Communications</i> , 2019, 10, 421.	5.8	35
54	Comprehensive substrate specificity profiling of the human Nek kinome reveals unexpected signaling outputs. <i>ELife</i> , 2019, 8, .	2.8	35

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55	Multi-omic analysis in injured humans: Patterns align with outcomes and treatment responses. <i>Cell Reports Medicine</i> , 2021, 2, 100478.	3.3	35
56	Identification of a Suppressive Mechanism for Hedgehog Signaling through a Novel Interaction of Gli with 14-3-3. <i>Journal of Biological Chemistry</i> , 2010, 285, 4185-4194.	1.6	34
57	Salvage use of tissue plasminogen activator (tPA) in the setting of acute respiratory distress syndrome (ARDS) due to COVID-19 in the USA: a Markov decision analysis. <i>World Journal of Emergency Surgery</i> , 2020, 15, 29.	2.1	33
58	The injury response to DNA damage in live tumor cells promotes antitumor immunity. <i>Science Signaling</i> , 2021, 14, eabc4764.	1.6	32
59	Transite: A Computational Motif-Based Analysis Platform That Identifies RNA-Binding Proteins Modulating Changes in Gene Expression. <i>Cell Reports</i> , 2020, 32, 108064.	2.9	30
60	Coagulopathy signature precedes and predicts severity of end-organ heat stroke pathology in a mouse model. <i>Journal of Thrombosis and Haemostasis</i> , 2020, 18, 1900-1910.	1.9	30
61	Mechanisms Driving Neutrophil-Induced T-cell Immunoparalysis in Ovarian Cancer. <i>Cancer Immunology Research</i> , 2021, 9, 790-810.	1.6	29
62	Monoanionic phosphopeptides produced by unexpected histidine alkylation exhibit high plk1 polo-box domain binding affinities and enhanced antiproliferative effects in hela cells. <i>Biopolymers</i> , 2014, 102, 444-455.	1.2	24
63	VISAGE Reveals a Targetable Mitotic Spindle Vulnerability in Cancer Cells. <i>Cell Systems</i> , 2019, 9, 74-92.e8.	2.9	24
64	Reproducibility in science. <i>Science Signaling</i> , 2015, 8, eg5.	1.6	23
65	Criteria for biological reproducibility: What does it mean?. <i>Science Signaling</i> , 2015, 8, fs7.	1.6	22
66	Substrate-based kinase activity inference identifies MK2 as driver of colitis. <i>Integrative Biology (United Kingdom)</i> 10, 21. <small>Tj ETQq0 0 0 rgBT /Overlock 10</small>	0.6	21
67	Hierarchical Organization Endows the Kinase Domain with Regulatory Plasticity. <i>Cell Systems</i> , 2018, 7, 371-383.e4.	2.9	20
68	Formyl Peptide Receptor-1 Blockade Prevents Receptor Regulation by Mitochondrial Danger-Associated Molecular Patterns and Preserves Neutrophil Function After Trauma. <i>Critical Care Medicine</i> , 2020, 48, e123-e132.	0.4	20
69	Enhancing chemotherapy response through augmented synthetic lethality by co-targeting nucleotide excision repair and cell-cycle checkpoints. <i>Nature Communications</i> , 2020, 11, 4124.	5.8	20
70	Monocyte exocytosis of mitochondrial danger-associated molecular patterns in sepsis suppresses neutrophil chemotaxis. <i>Journal of Trauma and Acute Care Surgery</i> , 2021, 90, 46-53.	1.1	20
71	Monitoring and modeling of lymphocytic leukemia cell bioenergetics reveals decreased ATP synthesis during cell division. <i>Nature Communications</i> , 2020, 11, 4983.	5.8	19
72	Study of alteplase for respiratory failure in severe acute respiratory syndrome coronavirus 2/COVID-19: Study design of the phase IIa STARS trial. <i>Research and Practice in Thrombosis and Haemostasis</i> , 2020, 4, 984-996.	1.0	19

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73	Structure of the <i>Toxoplasma gondii</i> ROP18 Kinase Domain Reveals a Second Ligand Binding Pocket Required for Acute Virulence. <i>Journal of Biological Chemistry</i> , 2013, 288, 34968-34980.	1.6	18
74	Redox priming promotes Aurora A activation during mitosis. <i>Science Signaling</i> , 2020, 13, .	1.6	18
75	MAPKAP Kinase-2 Drives Expression of Angiogenic Factors by Tumor-Associated Macrophages in a Model of Inflammation-Induced Colon Cancer. <i>Frontiers in Immunology</i> , 2020, 11, 607891.	2.2	16
76	Neighbor-directed histidine N (I _N) alkylation: A route to imidazolium-containing phosphopeptide macrocycles. <i>Biopolymers</i> , 2015, 104, 663-673.	1.2	14
77	Trauma-induced heme release increases susceptibility to bacterial infection. <i>JCI Insight</i> , 2021, 6, .	2.3	13
78	RNA-peptide nanoplexes drug DNA damage pathways in high-grade serous ovarian tumors. <i>Bioengineering and Translational Medicine</i> , 2018, 3, 26-36.	3.9	12
79	NEK10 tyrosine phosphorylates p53 and controls its transcriptional activity. <i>Oncogene</i> , 2020, 39, 5252-5266.	2.6	12
80	Protein kinases display minimal interpositional dependence on substrate sequence: potential implications for the evolution of signalling networks. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 2574-2583.	1.8	11
81	Tranexamic acid is associated with reduced complement activation in trauma patients with hemorrhagic shock and hyperfibrinolysis on thromboelastography. <i>Blood Coagulation and Fibrinolysis</i> , 2020, 31, 578-582.	0.5	11
82	Histidine N(I _N)-cyclized macrocycles as a new genre of polo-like kinase 1 polo-box domain-binding inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 3202-3205.	1.0	10
83	Multiplexed Plasma Immune Mediator Signatures Can Differentiate Sepsis From NonInfective SIRS. <i>Annals of Surgery</i> , 2020, 272, 604-610.	2.1	10
84	Kicking Genomic Profiling to the Curb: How Re-wiring the Phosphoproteome Can Explain Treatment Resistance in Glioma. <i>Cancer Cell</i> , 2016, 29, 435-436.	7.7	9
85	Modern Management of Bleeding, Clotting, and Coagulopathy in Trauma Patients: What Is the Role of Viscoelastic Assays?. <i>Current Trauma Reports</i> , 2020, 6, 69-81.	0.6	9
86	A Multivariate Computational Method to Analyze High-Content RNAi Screening Data. <i>Journal of Biomolecular Screening</i> , 2015, 20, 985-997.	2.6	8
87	Circulating Factors in Trauma Plasma Activate Specific Human Immune Cell Subsets. <i>Injury</i> , 2020, 51, 819-829.	0.7	8
88	SH3 Domains. , 2005, , 37-58.		7
89	The WW Domain. , 2005, , 59-72.		7
90	Multicenter Study of tissue plasminogen activator (alteplase) use in COVID-19 severe respiratory failure (MUST COVID): A retrospective cohort study. <i>Research and Practice in Thrombosis and Haemostasis</i> , 2022, 6, e12669.	1.0	6

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91	"Bits" and Pieces. Science Signaling, 2006, 2006, pe28-pe28.	1.6	5
92	Clot activators do not expedite the time to predict massive transfusion in trauma patients analyzed with tissue plasminogen activator thrombelastography. Surgery, 2019, 166, 408-415.	1.0	5
93	COVID-19: All the wrong moves in all the wrong places. Science Signaling, 2020, 13, .	1.6	5
94	Design and synthesis of a new orthogonally protected glutamic acid analog and its use in the preparation of high affinity polo-like kinase 1 polo-box domain " binding peptide macrocycles. Organic and Biomolecular Chemistry, 2021, 19, 7843-7854.	1.5	5
95	Novel Macrocytic Peptidomimetics Targeting the Polo-Box Domain of Polo-Like Kinase 1. Journal of Medicinal Chemistry, 2022, 65, 1915-1932.	2.9	5
96	The SH2 Domain: A Prototype for Protein Interaction Modules. , 2005, , 5-36.		4
97	Inducing DNA damage through R-loops to kill cancer cells. Molecular and Cellular Oncology, 2021, 8, 1848233.	0.3	4
98	Chromo and Chromo Shadow Domains. , 2005, , 241-255.		3
99	Are redox changes a critical switch for mitotic progression?. Molecular and Cellular Oncology, 2020, 7, 1832419.	0.3	3
100	A phase 2 study of onvansertib in combination with abiraterone and prednisone in patients with metastatic castration-resistant prostate cancer (mCRPC).. Journal of Clinical Oncology, 2022, 40, TPS219-TPS219.	0.8	3
101	PH Domains. , 2005, , 337-363.		2
102	PX Domains. , 2005, , 389-408.		2
103	Computational Analysis of Modular Protein Architectures. , 2005, , 439-476.		2
104	The Eukaryotic Protein Kinase Domain. , 2005, , 181-209.		2
105	An Integrated Pharmacological, Structural, and Genetic Analysis of Extracellular Versus Intracellular ROS Production in Neutrophils. Journal of Molecular Biology, 2022, 434, 167533.	2.0	2
106	Proteomics of Coagulopathy Following Injury Reveals Limitations of Using Laboratory Assessment to Define Trauma-Induced Coagulopathy to Predict Massive Transfusion. Annals of Surgery Open, 2022, 3, e167.	0.7	2
107	The Structure and Function of the Bromodomain. , 2005, , 227-239.		1
108	PDZ Domains: Intracellular Mediators of Carboxy-Terminal Protein Recognition and Scaffolding. , 2005, , 257-278.		1

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109	Nomenclature for Protein Modules and Their Cognate Motifs. , 2005, , 477-486.		1
110	EVH1/WH1 Domains. , 2005, , 73-101.		1
111	Seeing the Signaling Forest and the Trees. Science Signaling, 2008, 1, .	1.6	1
112	Leveraging signaling research to understand and treat disease. Science Signaling, 2016, 9, eg4.	1.6	1
113	Predicting the future of signaling for 2018. Science Signaling, 2018, 11, .	1.6	1
114	Atlas Drugged. Cell, 2019, 177, 803-805.	13.5	1
115	A phase II study of onvansertib in combination with abiraterone and prednisone in patients with metastatic castration-resistant prostate cancer (mCRPC).. Journal of Clinical Oncology, 2021, 39, TPS186-TPS186.	0.8	1
116	Prologue: An Overview of Protein Modular Domains As Adaptors. , 2005, , 1-4.		0
117	Structure, Specificity, and Mechanism of Protein Lysine Methylation by SET Domain Enzymes. , 2005, , 211-226.		0
118	EH Domains and Their Ligands. , 2005, , 279-290.		0
119	Ubiquitin Binding Modules: The Ubiquitin Network beyond the Proteasome. , 2005, , 291-319.		0
120	The Calponin Homology (CH) Domain. , 2005, , 321-336.		0
121	ENTH and VHS Domains. , 2005, , 365-387.		0
122	Peptide and Protein Repertoires for Global Analysis of Modules. , 2005, , 409-438.		0
123	The GYF Domain. , 2005, , 103-116.		0
124	PTB Domains. , 2005, , 117-141.		0
125	The FHA Domain. , 2005, , 143-162.		0
126	Epilogue: New Levels of Complexity in the Functional Roles of Modular Protein Interaction Domains: Switches and Sockets in the Circuit Diagrams of Cellular Systems Biology. , 2005, , 487-491.		0

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127	The Complex Art of Telling It Simply. <i>Science Signaling</i> , 2011, 4, .	1.6	0
128	14-3-3 proteins in cancer. , 0, , 293-304.		0
129	CADD-03. A VERSATILE AND MODULAR TARGETED NANOPARTICLE PLATFORM FOR DELIVERY OF COMBINATION THERAPIES TO ADULT AND PEDIATRIC CNS TUMORS. <i>Neuro-Oncology</i> , 2018, 20, vi277-vi277.	0.6	0
130	The NADPH oxidase and PI 3-kinase: the role of p40phox. <i>FASEB Journal</i> , 2007, 21, A604.	0.2	0
131	Intratumoral administration of DNA-damaging chemotherapy-treated tumor cells to enhance therapeutic benefit of systemic immune checkpoint blockade in mouse cancer models.. <i>Journal of Clinical Oncology</i> , 2020, 38, 77-77.	0.8	0
132	Immunogenic cell stress and injury versus immunogenic cell death: implications for improving cancer treatment with immune checkpoint blockade. <i>Molecular and Cellular Oncology</i> , 2022, 9, 2039038.	0.3	0