

# Anthony J Koleske

## List of Publications by Year in descending order

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109  
papers

9,125  
citations

46918

47  
h-index

40881

93  
g-index

114  
all docs

114  
docs citations

114  
times ranked

10262  
citing authors

#	ARTICLE	IF	CITATIONS
1	An RNA polymerase II holoenzyme responsive to activators. <i>Nature</i> , 1994, 368, 466-469.	13.7	594
2	Metabotropic Glutamate Receptor 5 Is a Coreceptor for Alzheimer A $\beta$ Oligomer Bound to Cellular Prion Protein. <i>Neuron</i> , 2013, 79, 887-902.	3.8	485
3	A multisubunit complex associated with the RNA polymerase II CTD and TATA-binding protein in yeast. <i>Cell</i> , 1993, 73, 1361-1375.	13.5	457
4	A kinase-cyclin pair in the RNA polymerase II holoenzyme. <i>Nature</i> , 1995, 374, 193-196.	13.7	411
5	Essential Roles for the Abl and Arg Tyrosine Kinases in Neurulation. <i>Neuron</i> , 1998, 21, 1259-1272.	3.8	382
6	Cortactin regulates cofilin and N-WASp activities to control the stages of invadopodium assembly and maturation. <i>Journal of Cell Biology</i> , 2009, 186, 571-587.	2.3	316
7	Molecular mechanisms of dendrite stability. <i>Nature Reviews Neuroscience</i> , 2013, 14, 536-550.	4.9	314
8	The RNA polymerase II holoenzyme and its implications for gene regulation. <i>Trends in Biochemical Sciences</i> , 1995, 20, 113-116.	3.7	305
9	Phosphorylation by the c-Abl protein tyrosine kinase inhibits parkin's ubiquitination and protective function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16691-16696.	3.3	241
10	An EGFR-Src-Arg-Cortactin Pathway Mediates Functional Maturation of Invadopodia and Breast Cancer Cell Invasion. <i>Cancer Research</i> , 2011, 71, 1730-1741.	0.4	236
11	Mechanisms of Synapse and Dendrite Maintenance and Their Disruption in Psychiatric and Neurodegenerative Disorders. <i>Annual Review of Neuroscience</i> , 2010, 33, 349-378.	5.0	217
12	Cortactin phosphorylation regulates cell invasion through a pH-dependent pathway. <i>Journal of Cell Biology</i> , 2011, 195, 903-920.	2.3	181
13	A novel transcription factor reveals a functional link between the RNA polymerase II CTD and TFIID. <i>Cell</i> , 1992, 69, 883-894.	13.5	177
14	Cortactin in cell migration and cancer at a glance. <i>Journal of Cell Science</i> , 2012, 125, 1621-1626.	1.2	160
15	Regulation of cell migration and morphogenesis by Abl-family kinases: emerging mechanisms and physiological contexts. <i>Journal of Cell Science</i> , 2009, 122, 3441-3454.	1.2	157
16	How do Abl family kinases regulate cell shape and movement?. <i>Trends in Cell Biology</i> , 2004, 14, 36-44.	3.6	154
17	Specific tyrosine phosphorylation sites on cortactin regulate Nck1-dependent actin polymerization in invadopodia. <i>Journal of Cell Science</i> , 2010, 123, 3662-3673.	1.2	145
18	Corticosteroid-Induced Neural Remodeling Predicts Behavioral Vulnerability and Resilience. <i>Journal of Neuroscience</i> , 2013, 33, 3107-3112.	1.7	139

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19	Shigella IpgB1 promotes bacterial entry through the ELMO/Dock180 machinery. <i>Nature Cell Biology</i> , 2007, 9, 121-128.	4.6	136
20	Caveolae, transmembrane signalling and cellular transformation. <i>Molecular Membrane Biology</i> , 1995, 12, 121-124.	2.0	135
21	Integrin-Mediated Dendrite Branch Maintenance Requires Abelson (Abl) Family Kinases. <i>Journal of Neuroscience</i> , 2005, 25, 6105-6118.	1.7	134
22	Two Distinct Phosphorylation Pathways Have Additive Effects on Abl Family Kinase Activation. <i>Molecular and Cellular Biology</i> , 2003, 23, 3884-3896.	1.1	129
23	A phase Ib multiple ascending dose study of the safety, tolerability, and central nervous system availability of AZD0530 (saracatinib) in Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2015, 7, 35.	3.0	129
24	Abl-dependent tyrosine phosphorylation of Sos-1 mediates growth-factor-induced Rac activation. <i>Nature Cell Biology</i> , 2004, 6, 268-274.	4.6	119
25	A Critical Role for Cortactin Phosphorylation by Abl-Family Kinases in PDGF-Induced Dorsal-Wave Formation. <i>Current Biology</i> , 2007, 17, 445-451.	1.8	118
26	Inhibition of Rho via Arg and p190RhoGAP in the Postnatal Mouse Hippocampus Regulates Dendritic Spine Maturation, Synapse and Dendrite Stability, and Behavior. <i>Journal of Neuroscience</i> , 2007, 27, 10982-10992.	1.7	114
27	Integrin Signaling through Arg Activates p190RhoGAP by Promoting Its Binding to p120RasGAP and Recruitment to the Membrane. <i>Molecular Biology of the Cell</i> , 2006, 17, 4827-4836.	0.9	113
28	Adhesion-Dependent Regulation of p190RhoGAP in the Developing Brain by the Abl-Related Gene Tyrosine Kinase. <i>Current Biology</i> , 2004, 14, 691-696.	1.8	109
29	The Abl-related gene (Arg) requires its F-actin/microtubule cross-linking activity to regulate lamellipodial dynamics during fibroblast adhesion. <i>Journal of Cell Biology</i> , 2004, 165, 407-420.	2.3	105
30	The vacuolar-ATPase modulates matrix metalloproteinase isoforms in human pancreatic cancer. <i>Laboratory Investigation</i> , 2011, 91, 732-743.	1.7	105
31	Action control is mediated by prefrontal BDNF and glucocorticoid receptor binding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20714-20719.	3.3	105
32	Arg interacts with cortactin to promote adhesion-dependent cell edge protrusion. <i>Journal of Cell Biology</i> , 2009, 185, 503-519.	2.3	97
33	Integrin $\beta$ 1 Signals through Arg to Regulate Postnatal Dendritic Arborization, Synapse Density, and Behavior. <i>Journal of Neuroscience</i> , 2012, 32, 2824-2834.	1.7	97
34	Regulation of neuronal morphogenesis and synaptic function by Abl family kinases. <i>Current Opinion in Neurobiology</i> , 2003, 13, 535-544.	2.0	89
35	Arg Kinase Regulates Prefrontal Dendritic Spine Refinement and Cocaine-Induced Plasticity. <i>Journal of Neuroscience</i> , 2012, 32, 2314-2323.	1.7	83
36	The Abl-related Gene Tyrosine Kinase Acts through p190RhoGAP to Inhibit Actomyosin Contractility and Regulate Focal Adhesion Dynamics upon Adhesion to Fibronectin. <i>Molecular Biology of the Cell</i> , 2007, 18, 3860-3872.	0.9	81

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37	Extracellular matrix control of dendritic spine and synapse structure and plasticity in adulthood. <i>Frontiers in Neuroanatomy</i> , 2014, 8, 116.	0.9	79
38	ECM receptors in neuronal structure, synaptic plasticity, and behavior. <i>Progress in Brain Research</i> , 2014, 214, 101-131.	0.9	72
39	Bidirectional Signaling Links the Abelson Kinases to the Platelet-Derived Growth Factor Receptor. <i>Molecular and Cellular Biology</i> , 2004, 24, 2573-2583.	1.1	69
40	Phospholipids Can Switch the GTPase Substrate Preference of a GTPase-activating Protein. <i>Journal of Biological Chemistry</i> , 2004, 279, 5055-5058.	1.6	66
41	Abl2/Arg Controls Dendritic Spine and Dendrite Arbor Stability via Distinct Cytoskeletal Control Pathways. <i>Journal of Neuroscience</i> , 2013, 33, 1846-1857.	1.7	62
42	Reciprocal stabilization of ABL and TAZ regulates osteoblastogenesis through transcription factor RUNX2. <i>Journal of Clinical Investigation</i> , 2016, 126, 4482-4496.	3.9	60
43	The ARG Tyrosine Kinase Interacts with Siva-1 in the Apoptotic Response to Oxidative Stress. <i>Journal of Biological Chemistry</i> , 2001, 276, 11465-11468.	1.6	59
44	Abl Family Nonreceptor Tyrosine Kinases Modulate Short-Term Synaptic Plasticity. <i>Journal of Neurophysiology</i> , 2003, 89, 1678-1687.	0.9	58
45	Differential expression of cytoskeletal regulatory factors in the adolescent prefrontal cortex: Implications for cortical development. <i>Journal of Neuroscience Research</i> , 2017, 95, 1123-1143.	1.3	56
46	Transient inhibition of p53 homologs protects ovarian function from two distinct apoptotic pathways triggered by anticancer therapies. <i>Cell Death and Differentiation</i> , 2019, 26, 502-515.	5.0	53
47	N-Myristoylated c-Abl Tyrosine Kinase Localizes to the Endoplasmic Reticulum upon Binding to an Allosteric Inhibitor. <i>Journal of Biological Chemistry</i> , 2009, 284, 29005-29014.	1.6	52
48	Synaptic Clustering of PSD-95 Is Regulated by c-Abl through Tyrosine Phosphorylation. <i>Journal of Neuroscience</i> , 2010, 30, 3728-3738.	1.7	50
49	Integrin $\beta 3$ Is Required for Late Postnatal Stability of Dendrite Arbors, Dendritic Spines and Synapses, and Mouse Behavior. <i>Journal of Neuroscience</i> , 2013, 33, 6742-6752.	1.7	50
50	Loss of dendrite stabilization by the Abl-related gene (Arg) kinase regulates behavioral flexibility and sensitivity to cocaine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 16859-16864.	3.3	46
51	Neurodevelopmental disease-associated de novo mutations and rare sequence variants affect TRIO GDP/GTP exchange factor activity. <i>Human Molecular Genetics</i> , 2017, 26, 4728-4740.	1.4	46
52	Defective T Cell Development and Function in the Absence of Abelson Kinases. <i>Journal of Immunology</i> , 2007, 179, 7334-7343.	0.4	45
53	CNS Neurons Deposit Laminin $\beta 5$ to Stabilize Synapses. <i>Cell Reports</i> , 2017, 21, 1281-1292.	2.9	45
54	Long-Term Live-Cell STED Nanoscopy of Primary and Cultured Cells with the Plasma Membrane HIDE Probe Dil $\beta$ SiR. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10408-10412.	7.2	44

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55	Increased Dendrite Branching in $\beta$ APP/PS1 Mice and Elongation of Dendrite Arbors by Fasudil Administration. <i>Journal of Alzheimer's Disease</i> , 2010, 20, 1003-1008.	1.2	43
56	Adolescent cocaine exposure simplifies orbitofrontal cortical dendritic arbors. <i>Frontiers in Pharmacology</i> , 2014, 5, 228.	1.6	42
57	Abelson phosphorylation of CLASP2 modulates its association with microtubules and actin. <i>Cytoskeleton</i> , 2014, 71, 195-209.	1.0	41
58	Direct Interactions with the Integrin $\beta$ 1 Cytoplasmic Tail Activate the Abl2/Arg Kinase. <i>Journal of Biological Chemistry</i> , 2015, 290, 8360-8372.	1.6	40
59	Trio Haploinsufficiency Causes Neurodevelopmental Disease-Associated Deficits. <i>Cell Reports</i> , 2019, 26, 2805-2817.e9.	2.9	39
60	The Abl and Arg Kinases Mediate Distinct Modes of Phagocytosis and Are Required for Maximal <i>Leishmania</i> Infection. <i>Molecular and Cellular Biology</i> , 2012, 32, 3176-3186.	1.1	38
61	Phosphorylated cortactin recruits Vav2 guanine nucleotide exchange factor to activate Rac3 and promote invadopodial function in invasive breast cancer cells. <i>Molecular Biology of the Cell</i> , 2017, 28, 1347-1360.	0.9	38
62	Integrin $\beta$ 1 regulates PP2A complex assembly through PDE4D in atherosclerosis. <i>Journal of Clinical Investigation</i> , 2019, 129, 4863-4874.	3.9	37
63	Abl2/Abl-related Gene Stabilizes Actin Filaments, Stimulates Actin Branching by Actin-related Protein 2/3 Complex, and Promotes Actin Filament Severing by Cofilin. <i>Journal of Biological Chemistry</i> , 2015, 290, 4038-4046.	1.6	36
64	Caveolae and human disease: functional roles in transcytosis, potocytosis, signalling and cell polarity. <i>Seminars in Developmental Biology</i> , 1995, 6, 47-58.	1.3	33
65	Arg/Abl2 Modulates the Affinity and Stoichiometry of Binding of Cortactin to F-Actin. <i>Biochemistry</i> , 2012, 51, 6644-6653.	1.2	32
66	Enhancement of ABL Kinase Catalytic Efficiency by a Direct Binding Regulator Is Independent of Other Regulatory Mechanisms. <i>Journal of Biological Chemistry</i> , 2008, 283, 31401-31407.	1.6	30
67	Regulation of Actin Polymerization and Adhesion-Dependent Cell Edge Protrusion by the Abl-Related Gene (Arg) Tyrosine Kinase and N-WASp. <i>Biochemistry</i> , 2010, 49, 2227-2234.	1.2	28
68	Noonan Syndrome-Associated SHP2 Dephosphorylates GluN2B to Regulate NMDA Receptor Function. <i>Cell Reports</i> , 2018, 24, 1523-1535.	2.9	26
69	Two-color nanoscopy of organelles for extended times with HIDE probes. <i>Nature Communications</i> , 2020, 11, 4271.	5.8	26
70	The Arg Non-receptor Tyrosine Kinase Modifies F-actin Structure. <i>Journal of Molecular Biology</i> , 2005, 346, 565-575.	2.0	25
71	Ablation of ErbB4 from excitatory neurons leads to reduced dendritic spine density in mouse prefrontal cortex. <i>Journal of Comparative Neurology</i> , 2014, 522, 3351-3362.	0.9	25
72	T cell survival and function requires the c-Abl tyrosine kinase. <i>Cell Cycle</i> , 2008, 7, 3847-3857.	1.3	24

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73	Do Filopodia Enable the Growth Cone to Find Its Way?. <i>Science Signaling</i> , 2003, 2003, pe20-pe20.	1.6	23
74	Disruption of Coordinated Presynaptic and Postsynaptic Maturation Underlies the Defects in Hippocampal Synapse Stability and Plasticity in Abl2/Arg-Deficient Mice. <i>Journal of Neuroscience</i> , 2016, 36, 6778-6791.	1.7	22
75	ABL1, Overexpressed in Hepatocellular Carcinomas, Regulates Expression of NOTCH1 and Promotes Development of Liver Tumors in Mice. <i>Gastroenterology</i> , 2020, 159, 289-305.e16.	0.6	22
76	Control of Synapse Structure and Function by Actin and Its Regulators. <i>Cells</i> , 2022, 11, 603.	1.8	22
77	Functional interactions of ion channels with the actin cytoskeleton: does coupling to dynamic actin regulate NMDA receptors?. <i>Journal of Physiology</i> , 2021, 599, 431-441.	1.3	21
78	Dissecting kinase signaling pathways. <i>Drug Discovery Today</i> , 2007, 12, 717-724.	3.2	18
79	The Src kinases Hck, Fgr, and Lyn activate Abl2/Arg to facilitate IgG-mediated phagocytosis and <i>Leishmania</i> infection. <i>Journal of Cell Science</i> , 2016, 129, 3130-43.	1.2	18
80	Met acts through Abl to regulate p53 transcriptional outcomes and cell survival in the developing liver. <i>Journal of Hepatology</i> , 2012, 57, 1292-1298.	1.8	17
81	Corticosteroid-induced dendrite loss and behavioral deficiencies can be blocked by activation of Abl2/Arg kinase. <i>Molecular and Cellular Neurosciences</i> , 2017, 85, 226-234.	1.0	17
82	Neural Stem Cells Direct Axon Guidance via Their Radial Fiber Scaffold. <i>Neuron</i> , 2020, 107, 1197-1211.e9.	3.8	17
83	Trio family proteins as regulators of cell migration and morphogenesis in development and disease – mechanisms and cellular contexts. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	17
84	The Abl and Arg non-receptor tyrosine kinases regulate different zones of stress fiber, focal adhesion, and contractile network localization in spreading fibroblasts. <i>Cytoskeleton</i> , 2010, 67, 666-675.	1.0	16
85	Arg kinase signaling in dendrite and synapse stabilization pathways: Memory, cocaine sensitivity, and stress. <i>International Journal of Biochemistry and Cell Biology</i> , 2013, 45, 2496-2500.	1.2	15
86	Brain Region and Isoform-Specific Phosphorylation Alters Kalirin SH2 Domain Interaction Sites and Calpain Sensitivity. <i>ACS Chemical Neuroscience</i> , 2017, 8, 1554-1569.	1.7	15
87	[16] Purification of yeast RNA polymerase II holoenzymes. <i>Methods in Enzymology</i> , 1996, 273, 176-184.	0.4	14
88	WAVE2 Regulates Epithelial Morphology and Cadherin Isoform Switching through Regulation of Twist and Abl. <i>PLoS ONE</i> , 2013, 8, e64533.	1.1	14
89	SNARE Complex Dysfunction: A Unifying Hypothesis for Schizophrenia. <i>Biological Psychiatry</i> , 2015, 78, 356-358.	0.7	14
90	Cortactin stabilization of actin requires actin-binding repeats and linker, is disrupted by specific substitutions, and is independent of nucleotide state. <i>Journal of Biological Chemistry</i> , 2018, 293, 13022-13032.	1.6	13

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91	Two Amino Acid Residues Confer Different Binding Affinities of Abelson Family Kinase Src Homology 2 Domains for Phosphorylated Cortactin. <i>Journal of Biological Chemistry</i> , 2014, 289, 19704-19713.	1.6	12
92	Lysozyme contamination facilitates crystallization of a heterotrimeric cortactin-Arg-lysozyme complex. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 154-158.	0.7	11
93	Regulation of MT dynamics via direct binding of an Abl family kinase. <i>Journal of Cell Biology</i> , 2019, 218, 3986-3997.	2.3	11
94	Regulation of the NMDA receptor by its cytoplasmic domains: (How) is the tail wagging the dog?. <i>Neuropharmacology</i> , 2021, 195, 108634.	2.0	10
95	The repeat region of cortactin is intrinsically disordered in solution. <i>Scientific Reports</i> , 2017, 7, 16696.	1.6	9
96	Cell adhesion signaling pathways. <i>Communicative and Integrative Biology</i> , 2011, 4, 30-33.	0.6	8
97	Abl2 is recruited to ventral actin waves through cytoskeletal interactions to promote lamellipodium extension. <i>Molecular Biology of the Cell</i> , 2018, 29, 2863-2873.	0.9	8
98	Abl2:Cortactin Interactions Regulate Dendritic Spine Stability via Control of a Stable Filamentous Actin Pool. <i>Journal of Neuroscience</i> , 2021, 41, 3068-3081.	1.7	8
99	Cell adhesion signaling pathways: First responders to cocaine exposure?. <i>Communicative and Integrative Biology</i> , 2011, 4, 30-3.	0.6	8
100	Structure of the ABL2/ARG kinase in complex with dasatinib. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015, 71, 443-448.	0.4	7
101	Crystal structure of a guanine nucleotide exchange factor encoded by the scrub typhus pathogen <i>Orientia tsutsugamushi</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 30380-30390.	3.3	7
102	A Role for the Non-Receptor Tyrosine Kinase Abl2/Arg in Experimental Neuroinflammation. <i>Journal of NeuroImmune Pharmacology</i> , 2018, 13, 265-276.	2.1	6
103	In vitro fluorescence assay to measure GDP/GTP exchange of guanine nucleotide exchange factors of Rho family GTPases. <i>Biology Methods and Protocols</i> , 2022, 7, bpab024.	1.0	6
104	Invadopodia: RhoC Runs Rings around Cofilin. <i>Current Biology</i> , 2011, 21, R280-R282.	1.8	4
105	Analysis of Cellular Tyrosine Phosphorylation via Chemical Rescue of Conditionally Active Abl Kinase. <i>Biochemistry</i> , 2018, 57, 1390-1398.	1.2	4
106	Platelet-derived growth factor receptor beta activates Abl2 via direct binding and phosphorylation. <i>Journal of Biological Chemistry</i> , 2021, 297, 100883.	1.6	4
107	Arg Deficiency Does not Influence the Course of Myelin Oligodendrocyte Glycoprotein (MOG35-55)-induced Experimental Autoimmune Encephalomyelitis. <i>Journal of Clinical &amp; Cellular Immunology</i> , 2016, 7, .	1.5	1
108	What is the role of synaptic protein TRIO's spectrin repeats?. <i>FASEB Journal</i> , 2021, 35, .	0.2	0

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109	Measuring Cell-Edge Protrusion Dynamics during Spreading using Live-Cell Microscopy. Journal of Visualized Experiments, 2021, , .	0.2	0