

John W Scott

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

6,124
citations

101543

36
h-index

71685

76
g-index

90
all docs

90
docs citations

90
times ranked

7672
citing authors

#	ARTICLE	IF	CITATIONS
1	Management of cellular energy by the AMP-activated protein kinase system. FEBS Letters, 2003, 546, 113-120.	2.8	721
2	AMP-activated protein kinase – development of the energy sensor concept. Journal of Physiology, 2006, 574, 7-15.	2.9	681
3	CBS domains form energy-sensing modules whose binding of adenosine ligands is disrupted by disease mutations. Journal of Clinical Investigation, 2004, 113, 274-284.	8.2	622
4	AMPK Is a Direct Adenylate Charge-Regulated Protein Kinase. Science, 2011, 332, 1433-1435.	12.6	499
5	β -Subunit myristoylation is the gatekeeper for initiating metabolic stress sensing by AMP-activated protein kinase (AMPK). Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19237-19241.	7.1	267
6	Thienopyridone Drugs Are Selective Activators of AMP-Activated Protein Kinase β 1-Containing Complexes. Chemistry and Biology, 2008, 15, 1220-1230.	6.0	221
7	AMPK functions as an adenylate charge-regulated protein kinase. Trends in Endocrinology and Metabolism, 2012, 23, 125-132.	7.1	167
8	Protein kinase substrate recognition studied using the recombinant catalytic domain of AMP-activated protein kinase and a model substrate. Journal of Molecular Biology, 2002, 317, 309-323.	4.2	156
9	Whole Body Deletion of AMP-activated Protein Kinase β 2 Reduces Muscle AMPK Activity and Exercise Capacity. Journal of Biological Chemistry, 2010, 285, 37198-37209.	3.4	145
10	Fatal Congenital Heart Glycogenosis Caused by a Recurrent Activating R531Q Mutation in the β 2-Subunit of AMP-Activated Protein Kinase (PRKAG2), Not by Phosphorylase Kinase Deficiency. American Journal of Human Genetics, 2005, 76, 1034-1049.	6.2	137
11	Small Molecule Drug A-769662 and AMP Synergistically Activate Naïve AMPK Independent of Upstream Kinase Signaling. Chemistry and Biology, 2014, 21, 619-627.	6.0	137
12	Metformin and salicylate synergistically activate liver AMPK, inhibit lipogenesis and improve insulin sensitivity. Biochemical Journal, 2015, 468, 125-132.	3.7	132
13	Analysis of the LKB1-STRAD-MO25 complex. Journal of Cell Science, 2004, 117, 6365-6375.	2.0	130
14	SnRK1 from <i>Arabidopsis thaliana</i> is an atypical AMPK. Plant Journal, 2015, 82, 183-192.	5.7	115
15	AMP-activated protein kinase selectively inhibited by the type II inhibitor SBI-0206965. Journal of Biological Chemistry, 2018, 293, 8874-8885.	3.4	98
16	mTORC1 directly inhibits AMPK to promote cell proliferation under nutrient stress. Nature Metabolism, 2020, 2, 41-49.	11.9	97
17	Long-chain fatty acyl-CoA esters regulate metabolism via allosteric control of AMPK β 1 isoforms. Nature Metabolism, 2020, 2, 873-881.	11.9	76
18	Structure and function of AMP-activated protein kinase. Acta Physiologica, 2009, 196, 3-14.	3.8	70

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19	Structural basis of allosteric and synergistic activation of AMPK by furan-2-phosphonic derivative C2 binding. <i>Nature Communications</i> , 2016, 7, 10912.	12.8	69
20	The autophagy initiator ULK1 sensitizes AMPK to allosteric drugs. <i>Nature Communications</i> , 2017, 8, 571.	12.8	65
21	Ca ²⁺ /Calmodulin-dependent Protein Kinase Kinase $\hat{1}^2$ Is Regulated by Multisite Phosphorylation. <i>Journal of Biological Chemistry</i> , 2011, 286, 28066-28079.	3.4	62
22	Mitochondrial fission protein Drp1 inhibition promotes cardiac mesodermal differentiation of human pluripotent stem cells. <i>Cell Death Discovery</i> , 2018, 4, 39.	4.7	61
23	Phenformin and 5-aminoimidazole-4-carboxamide-1- $\hat{1}^2$ -D-ribofuranoside (AICAR) activation of AMP-activated protein kinase inhibits transepithelial Na ⁺ transport across H441 lung cells. <i>Journal of Physiology</i> , 2005, 566, 781-792.	2.9	60
24	AMPK Structure and Regulation from Three Angles. <i>Structure</i> , 2007, 15, 1161-1163.	3.3	59
25	Fatal Infantile Cardiac Glycogenosis with Phosphorylase Kinase Deficiency and a Mutation in the $\hat{1}^3$ -Subunit of AMP-Activated Protein Kinase. <i>Pediatric Research</i> , 2007, 62, 499-504.	2.3	57
26	Inhibition of Adenosine Monophosphate-Activated Protein Kinase-3-Hydroxy- $\hat{3}$ -Methylglutaryl Coenzyme A Reductase Signaling Leads to Hypercholesterolemia and Promotes Hepatic Steatosis and Insulin Resistance. <i>Hepatology Communications</i> , 2019, 3, 84-98.	4.3	56
27	Inhibition of ATP-citrate lyase improves NASH, liver fibrosis, and dyslipidemia. <i>Cell Metabolism</i> , 2022, 34, 919-936.e8.	16.2	55
28	Rethinking Priorities. <i>Annals of Surgery</i> , 2016, 264, 312-322.	4.2	54
29	Germline deletion of AMP-activated protein kinase $\hat{1}^2$ subunits reduces bone mass without altering osteoclast differentiation or function. <i>FASEB Journal</i> , 2010, 24, 275-285.	0.5	52
30	Inhibition of AMP-Activated Protein Kinase at the Allosteric Drug-Binding Site Promotes Islet Insulin Release. <i>Chemistry and Biology</i> , 2015, 22, 705-711.	6.0	50
31	Mutant TDP-43 Deregulates AMPK Activation by PP2A in ALS Models. <i>PLoS ONE</i> , 2014, 9, e90449.	2.5	46
32	Regulation of AMP-activated protein kinase by a pseudosubstrate sequence on the $\hat{1}^3$ subunit. <i>EMBO Journal</i> , 2007, 26, 806-815.	7.8	43
33	Pharmacological activators of AMP-activated protein kinase have different effects on Na ⁺ transport processes across human lung epithelial cells. <i>British Journal of Pharmacology</i> , 2007, 151, 1204-1215.	5.4	42
34	Emergency Major Abdominal Surgical Procedures in Older Adults: A Systematic Review of Mortality and Functional Outcomes. <i>Journal of the American Geriatrics Society</i> , 2015, 63, 2563-2571.	2.6	41
35	New perspectives on the role of Drp1 isoforms in regulating mitochondrial pathophysiology. , 2020, 213, 107594.		41
36	Structural Determinants for Small-Molecule Activation of Skeletal Muscle AMPK $\hat{1}^2\hat{1}^3$ by the Glucose Importagog SC4. <i>Cell Chemical Biology</i> , 2018, 25, 728-737.e9.	5.2	40

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37	Global surgical, obstetric, and anesthetic task shifting: A systematic literature review. <i>Surgery</i> , 2018, 164, 553-558.	1.9	37
38	Dependent Coverage Provision Led To Uneven Insurance Gains And Unchanged Mortality Rates In Young Adult Trauma Patients. <i>Health Affairs</i> , 2015, 34, 125-133.	5.2	36
39	Molecular Mechanisms Underlying the Beneficial Effects of Exercise on Brain Function and Neurological Disorders. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4052.	4.1	35
40	Racial and Regional Disparities in the Effect of the Affordable Care Act's Dependent Coverage Provision on Young Adult Trauma Patients. <i>Journal of the American College of Surgeons</i> , 2015, 221, 495-501e1.	0.5	34
41	Autophosphorylation of CaMKK2 generates autonomous activity that is disrupted by a T85S mutation linked to anxiety and bipolar disorder. <i>Scientific Reports</i> , 2015, 5, 14436.	3.3	28
42	The independent effect of emergency general surgery on outcomes varies depending on case type: A NSQIP outcomes study. <i>American Journal of Surgery</i> , 2018, 216, 856-862.	1.8	27
43	Training Surgical Residents for a Career in Academic Global Surgery: A Novel Training Model. <i>Journal of Surgical Education</i> , 2015, 72, e104-e110.	2.5	26
44	Investigation of the specificity and mechanism of action of the ULK1/AMPK inhibitor SBI-0206965. <i>Biochemical Journal</i> , 2021, 478, 2977-2997.	3.7	26
45	Three-Region Perfusion Strategy for Aortic Arch Reconstruction in the Norwood. <i>Annals of Thoracic Surgery</i> , 2011, 92, 1138-1140.	1.3	25
46	Rwanda's Model Prehospital Emergency Care Service: A Two-year Review of Patient Demographics and Injury Patterns in Kigali. <i>Prehospital and Disaster Medicine</i> , 2016, 31, 614-620.	1.3	24
47	CaMKK2 is inactivated by cAMP-PKA signaling and 14-3-3 adaptor proteins. <i>Journal of Biological Chemistry</i> , 2020, 295, 16239-16250.	3.4	24
48	1,2,6-Thiadiazinones as Novel Narrow Spectrum Calcium/Calmodulin-Dependent Protein Kinase 2 (CaMKK2) Inhibitors. <i>Molecules</i> , 2018, 23, 1221.	3.8	23
49	Genetic loss of AMPK-glycogen binding destabilises AMPK and disrupts metabolism. <i>Molecular Metabolism</i> , 2020, 41, 101048.	6.5	22
50	Hinge Binder Scaffold Hopping Identifies Potent Calcium/Calmodulin-Dependent Protein Kinase Kinase 2 (CAMKK2) Inhibitor Chemotypes. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 10849-10877.	6.4	22
51	In Depth Analysis of Kinase Cross Screening Data to Identify CAMKK2 Inhibitory Scaffolds. <i>Molecules</i> , 2020, 25, 325.	3.8	22
52	AMP-activated protein kinase complexes containing the β 2 regulatory subunit are up-regulated during and contribute to adipogenesis. <i>Biochemical Journal</i> , 2019, 476, 1725-1740.	3.7	20
53	Allosteric regulation of AMP-activated protein kinase by adenylate nucleotides and small-molecule drugs. <i>Biochemical Society Transactions</i> , 2019, 47, 733-741.	3.4	19
54	AMPK/SNF1 structure: a menage a trois of energy-sensing. <i>Frontiers in Bioscience - Landmark</i> , 2009, Volume, 596.	3.0	18

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55	Post-Translational Modifications of the Energy Guardian AMP-Activated Protein Kinase. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1229.	4.1	18
56	Choosing Wisely for Syncope: Low-Value Carotid Ultrasound Use. <i>Journal of the American Heart Association</i> , 2014, 3, .	3.7	17
57	Surgeon-driven variability in emergency general surgery outcomes: Does it matter who is on call?. <i>Surgery</i> , 2018, 164, 1109-1116.	1.9	16
58	Impact of Genetic Variation on Human CaMKK2 Regulation by Ca ²⁺ -Calmodulin and Multisite Phosphorylation. <i>Scientific Reports</i> , 2017, 7, 43264.	3.3	15
59	The sweet side of AMPK signaling: regulation of GFAT1. <i>Biochemical Journal</i> , 2017, 474, 1289-1292.	3.7	15
60	Compound- and fiber type-selective requirement of AMPK ^{β3} for insulin-independent glucose uptake in skeletal muscle. <i>Molecular Metabolism</i> , 2021, 51, 101228.	6.5	14
61	Î²-subunit myristoylation functions as an energy sensor by modulating the dynamics of AMP-activated Protein Kinase. <i>Scientific Reports</i> , 2016, 6, 39417.	3.3	13
62	The Affordable Care Act at 10 Years: Evaluating the Evidence and Navigating an Uncertain Future. <i>Journal of Surgical Research</i> , 2021, 263, 102-109.	1.6	11
63	Designing and implementing a practical prehospital emergency trauma care curriculum for lay first responders in Guatemala. <i>Trauma Surgery and Acute Care Open</i> , 2020, 5, e000409.	1.6	10
64	Regulation of Pancreatic Î²-Cell Function by the NPY System. <i>Endocrinology</i> , 2021, 162, .	2.8	10
65	Protein kinase A negatively regulates VEGF-induced AMPK activation by phosphorylating CaMKK2 at serine 495. <i>Biochemical Journal</i> , 2020, 477, 3453-3469.	3.7	10
66	Neuropeptide Y1 receptor antagonism protects Î²-cells and improves glycemic control in type 2 diabetes. <i>Molecular Metabolism</i> , 2022, 55, 101413.	6.5	10
67	Functional analysis of an R311C variant of Ca ²⁺ -calmodulin-dependent protein kinase kinase-2 (CaMKK2) found as a de novo mutation in a patient with bipolar disorder. <i>Bipolar Disorders</i> , 2020, 22, 841-848.	1.9	9
68	An AMPK ^{β2} -specific phospho-switch controls lysosomal targeting for activation. <i>Cell Reports</i> , 2022, 38, 110365.	6.4	8
69	Calcium/calmodulin-dependent protein kinase kinase 2 regulates hepatic fuel metabolism. <i>Molecular Metabolism</i> , 2022, 62, 101513.	6.5	8
70	Structure-function analysis of the AMPK activator SC4 and identification of a potent pan AMPK activator. <i>Biochemical Journal</i> , 2022, 479, 1181-1204.	3.7	6
71	Systemic Ablation of Camkk2 Impairs Metastatic Colonization and Improves Insulin Sensitivity in TRAMP Mice: Evidence for Cancer Cell-Extrinsic CAMKK2 Functions in Prostate Cancer. <i>Cells</i> , 2022, 11, 1890.	4.1	6
72	ATP sensitive bi-quinoline activator of the AMP-activated protein kinase. <i>Biochemical and Biophysical Research Communications</i> , 2014, 443, 435-440.	2.1	5

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73	Factors associated with optimal patient outcomes after operative repair of isolated hip fractures in the elderly. <i>Trauma Surgery and Acute Care Open</i> , 2020, 5, e000630.	1.6	5
74	Transient Expression of AMPK Heterotrimer Complexes in Mammalian Cells. <i>Methods in Molecular Biology</i> , 2018, 1732, 159-169.	0.9	4
75	Fake Inhibitors: AMPK Activation Trumps Inhibition. <i>Cell Chemical Biology</i> , 2017, 24, 775-777.	5.2	3
76	Staged Hybrid Left Pulmonary Artery Rehabilitation in Post-Fontan Left Pulmonary Artery Hypoplasia. <i>Annals of Thoracic Surgery</i> , 2007, 84, 2112-2114.	1.3	2
77	Decreasing time to antibiotic administration in open fractures of the femur and tibia through performance improvement in a statewide trauma: Collaborative quality initiative. <i>Surgery</i> , 2021, , .	1.9	2
78	Laparoscopic to Open Emergent Cholecystectomy: The Cost of Conversion. <i>Journal of the American College of Surgeons</i> , 2015, 221, S42-S43.	0.5	0
79	Partitioning length of stay to understand readmission risk: survival analysis in the American College of Surgeons (ACS) NSQIP database. <i>Journal of the American College of Surgeons</i> , 2015, 221, e16.	0.5	0
80	Gains in access to rehabilitation at age 65 years: a regression discontinuity analysis of the National Trauma Data Bank. <i>Journal of the American College of Surgeons</i> , 2015, 221, e37.	0.5	0
81	Phenformin and AICAR decrease transepithelial Na ⁺ transport across human H441 lung epithelial cells by different mechanisms. <i>FASEB Journal</i> , 2007, 21, A954.	0.5	0
82	Maintaining Energy Balance in Health and Disease: Role of the AMP-Activated Protein Kinase. , 2011, , 199-232.		0