Christopher J Lynch

List of Publications by Year
in descending order

74 papers	3,901 citations	172457 29 h-index	133252 59 g-index
77 all docs	77 docs citations	77 times ranked	5948 citing authors

#	ARTICLE	IF	CITATIONS
1	Obesity-related elevations in plasma leucine are associated with alterations in enzymes involved in branched-chain amino acid metabolism. American Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E1552-E1563.	3.5	417
2	Disruption of BCATm in Mice Leads to Increased Energy Expenditure Associated with the Activation of a Futile Protein Turnover Cycle. Cell Metabolism, 2007, 6, 181-194.	16.2	326
3	Adipose Tissue Branched Chain Amino Acid (BCAA) Metabolism Modulates Circulating BCAA Levels. Journal of Biological Chemistry, 2010, 285, 11348-11356.	3.4	321
4	Cardiolipin Remodeling by ALCAT1 Links Oxidative Stress and Mitochondrial Dysfunction to Obesity. Cell Metabolism, 2010, 12, 154-165.	16.2	233
5	Protein phosphatase 2Cm is a critical regulator of branched-chain amino acid catabolism in mice and cultured cells. Journal of Clinical Investigation, 2009, 119, 1678-1687.	8.2	182
6	Hormonal and Metabolic Effects of Olanzapine and Clozapine Related to Body Weight in Rodents. Obesity, 2006, 14, 36-51.	3.0	157
7	Regulation of amino acid-sensitive TOR signaling by leucine analogues in adipocytes. , 2000, 77, 234-251.		146
8	Effect of the tyrosine kinase inhibitors (sunitinib, sorafenib, dasatinib, and imatinib) on blood glucose levels in diabetic and nondiabetic patients in general clinical practice. Journal of Oncology Pharmacy Practice, 2011, 17, 197-202.	0.9	128
9	Leucine in food mediates some of the postprandial rise in plasma leptin concentrations. American Journal of Physiology - Endocrinology and Metabolism, 2006, 291, E621-E630.	3.5	112
10	Gastric bypass surgery alters behavioral and neural taste functions for sweet taste in obese rats. American Journal of Physiology - Renal Physiology, 2010, 299, G967-G979.	3.4	110
11	A Double Blind, Placebo-Controlled, Randomized Crossover Study of the Acute Metabolic Effects of Olanzapine in Healthy Volunteers. PLoS ONE, 2011, 6, e22662.	2.5	96
12	Leucine and Protein Metabolism in Obese Zucker Rats. PLoS ONE, 2013, 8, e59443.	2.5	91
13	Leucine Supplementation of Drinking Water Does Not Alter Susceptibility to Diet-Induced Obesity in Mice. Journal of Nutrition, 2009, 139, 715-719.	2.9	87
14	Temporal and spatiotemporal investigation of tourist attraction visit sentiment on Twitter. PLoS ONE, 2018, 13, e0198857.	2.5	86
15	Lactating Porcine Mammary Tissue Catabolizes Branched-Chain Amino Acids for Glutamine and Aspartate Synthesis. Journal of Nutrition, 2009, 139, 1502-1509.	2.9	77
16	Mechanisms of Glucose Homeostasis After Roux-en-Y Gastric Bypass Surgery in the Obese, Insulin-Resistant Zucker Rat. Annals of Surgery, 2009, 249, 277-285.	4.2	77
17	Assessment of cell-signaling pathways in the regulation of mammalian target of rapamycin (mTOR) by amino acids in rat adipocytes. Journal of Cellular Biochemistry, 2000, 79, 427-441.	2.6	66
18	Atypical Antipsychotics Rapidly and Inappropriately Switch Peripheral Fuel Utilization to Lipids, Impairing Metabolic Flexibility in Rodents. Schizophrenia Bulletin, 2012, 38, 153-166.	4.3	66

#	Article	IF	Citations
19	Apolipoprotein Aâ€¡V, a Putative Satiety/Antiatherogenic Factor, Rises After Gastric Bypass. Obesity, 2009, 17, 46-52.	3.0	57
20	Molecular characterization of skeletal muscle atrophy in the R6/2 mouse model of Huntington's disease. American Journal of Physiology - Endocrinology and Metabolism, 2011, 301, E49-E61.	3.5	57
21	Disruption of BCAA metabolism in mice impairs exercise metabolism and endurance. Journal of Applied Physiology, 2010, 108, 941-949.	2.5	56
22	Ileal interposition improves glucose tolerance and insulin sensitivity in the obese Zucker rat. American Journal of Physiology - Renal Physiology, 2010, 299, G751-G760.	3.4	51
23	Inhibition of mTOR Suppresses UVB-Induced Keratinocyte Proliferation and Survival. Cancer Prevention Research, 2012, 5, 1394-1404.	1.5	51
24	Transamination Is Required for Î±-Ketoisocaproate but Not Leucine to Stimulate Insulin Secretion*. Journal of Biological Chemistry, 2010, 285, 33718-33726.	3.4	50
25	Skeletal muscle protein balance in mTOR heterozygous mice in response to inflammation and leucine. American Journal of Physiology - Endocrinology and Metabolism, 2010, 298, E1283-E1294.	3.5	49
26	Meal feeding enhances formation of eIF4F in skeletal muscle: role of increased eIF4E availability and eIF4G phosphorylation. American Journal of Physiology - Endocrinology and Metabolism, 2006, 290, E631-E642.	3.5	45
27	Calmodulin Signals Capacitation and Triggers the Agonist-Induced Acrosome Reaction in Mouse Spermatozoa. Archives of Biochemistry and Biophysics, 2001, 390, 1-8.	3.0	44
28	A homolog of the fungal nuclear migration gene nudC is involved in normal and malignant human hematopoiesis. Experimental Hematology, 1999, 27, 742-750.	0.4	39
29	Modelling terror management theory: computer simulations of the impact of mortality salience on religiosity. Religion, Brain and Behavior, 2018, 8, 77-100.	0.7	35
30	A Generative Model of the Mutual Escalation of Anxiety Between Religious Groups. Jasss, 2018, 21, .	1.8	33
31	BCATm deficiency ameliorates endotoxin-induced decrease in muscle protein synthesis and improves survival in septic mice. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 299, R935-R944.	1.8	31
32	BCAA Supplementation in Mice with Diet-induced Obesity Alters the Metabolome Without Impairing Glucose Homeostasis. Endocrinology, 2021, 162, .	2.8	28
33	Nutrient regulation of PKCÎ¼ is mediated by leucine, not insulin, in skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2005, 289, E684-E694.	3.5	27
34	Rapamycin blunts nutrient stimulation of eIF4G, but not PKCÎ¼ phosphorylation, in skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E188-E196.	3.5	27
35	Functional proteomic analysis reveals sex-dependent differences in structural and energy-producing myocardial proteins in rat model of alcoholic cardiomyopathy. Physiological Genomics, 2011, 43, 346-356.	2.3	22
36	A knottin scaffold directs the CXC-chemokineâ€"binding specificity of tick evasins. Journal of Biological Chemistry, 2019, 294, 11199-11212.	3.4	22

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37	Control of VWF A2 domain stability and ADAMTS13 access to the scissile bond of full-length VWF. Blood, 2014, 123, 2585-2592.	1.4	21
38	Short-Range Forecasting of COVID-19 During Early Onset at County, Health District, and State Geographic Levels Using Seven Methods: Comparative Forecasting Study. Journal of Medical Internet Research, 2021, 23, e24925.	4.3	21
39	N-linked glycan stabilization of the VWF A2 domain. Blood, 2016, 127, 1711-1718.	1.4	20
40	A report of activities related to the Dietary Reference Intakes from the Joint Canada-US Dietary Reference Intakes Working Group. American Journal of Clinical Nutrition, 2019, 109, 251-259.	4.7	20
41	Alcohol-Induced IGF-I Resistance Is Ameliorated in Mice Deficient for Mitochondrial Branched-Chain Aminotransferase. Journal of Nutrition, 2010, 140, 932-938.	2.9	19
42	A multi-paradigm modeling framework for modeling and simulating problem situations. , 2014, , .		19
43	Characterization of the Pharmacological-Sensitivity Profile of Neoglycoprotein-Induced Acrosome Reaction in Mouse Spermatozoa1. Biology of Reproduction, 1999, 61, 629-634.	2.7	17
44	Impact of Chronic Alcohol Ingestion on Cardiac Muscle Protein Expression. Alcoholism: Clinical and Experimental Research, 2010, 34, 1226-1234.	2.4	17
45	Using simulation games for teaching and learning discrete-event simulation. , 2016, , .		17
46	Identifying key papers within a journal via network centrality measures. Scientometrics, 2016, 107, 1005-1020.	3.0	17
47	Observations on the practice and profession of modeling and simulation: A survey approach. Simulation, 2018, 94, 493-506.	1.8	17
48	An overview of modeling and simulation using content analysis. Scientometrics, 2015, 103, 977-1002.	3.0	16
49	A taxonomy for classifying terminologies that describe simulations with multiple models. , 2015, , .		14
50	Applying statistical debugging for enhanced trace validation of agent-based models. Simulation, 2017, 93, 273-284.	1.8	14
51	Global deletion of BCATm increases expression of skeletal muscle genes associated with protein turnover. Physiological Genomics, 2015, 47, 569-580.	2.3	13
52	Analysis of future UAS-based delivery. , 2016, , .		13
53	Formal methods, statistical debugging and exploratory analysis in support of system development: Towards a verification and validation calculator tool. International Journal of Modeling, Simulation, and Scientific Computing, 2016, 07, 1641001.	1.4	12
54	Some cannabinoid receptor ligands and their distomers are direct-acting openers of SUR1 K_{ATP} channels. American Journal of Physiology - Endocrinology and Metabolism, 2012, 302, E540-E551.	3.5	10

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55	Cloud-based simulators: Making simulations accessible to non-experts and experts alike. , 2014, , .		10
56	Emergent behavior identification within an agent-based model of the Ballistic Missile Defense System using statistical debugging. Journal of Defense Modeling and Simulation, 2016, 13, 275-289.	1.7	10
57	Augmenting Bottom-up Metamodels with Predicates. Jasss, 2017, 20, .	1.8	10
58	Methods for Weighting Decisions to Assist Modelers and Decision Analysts: A Review of Ratio Assignment and Approximate Techniques. Applied Sciences (Switzerland), 2021, 11, 10397.	2.5	10
59	A content analysis-based approach to explore simulation verification and identifyÂits current challenges. PLoS ONE, 2020, 15, e0232929.	2.5	9
60	Application of one-, three-, and seven-day forecasts during early onset on the COVID-19 epidemic dataset using moving average, autoregressive, autoregressive moving average, autoregressive integrated moving average, and naÃ¯ve forecasting methods. Data in Brief, 2021, 35, 106759.	1.0	9
61	A common mechanism by which type 2A von Willebrand disease mutations enhance ADAMTS13 proteolysis revealed with a von Willebrand factor A2 domain FRET construct. PLoS ONE, 2017, 12, e0188405.	2.5	9
62	Content analysis to classify and compare Live, Virtual, Constructive simulations and System of Systems. Journal of Defense Modeling and Simulation, 2016, 13, 367-380.	1.7	6
63	Biochemical approaches for nutritional support of skeletal muscle protein metabolism during sepsis. Nutrition Research Reviews, 2004, 17, 77-88.	4.1	5
64	Storytelling and simulation creation. , 2017, , .		5
65	Towards a World Wide Web of Simulation. Journal of Defense Modeling and Simulation, 2017, 14, 159-170.	1.7	4
66	Incorporating sound in simulations. , 2017, , .		3
67	HOW TO CREATE EMPATHY AND UNDERSTANDING: NARRATIVE ANALYTICS IN AGENT-BASED MODELING. , 2018, , .		3
68	Education in Analytics Needed for the Modeling & Simulation Process. , 2020, , .		3
69	A remote monitoring system for treating Pectus Carinatum. , 2011, , .		1
70	The impact of modeling paradigms on the outcome of simulation studies: An experimental case study. , 2016, , .		1
71	Towards airspace rules for future UAS-based delivery. , 2016, , .		1
72	Quantitative performance metrics for evaluation and comparison of middleware interoperability products. Journal of Defense Modeling and Simulation, 2016, 13, 161-169.	1.7	1

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73	Identifying Unexpected Behaviors of Agent-Based Models Through Spatial Plots and Heat Maps. Understanding Complex Systems, 2019, , 129-142.	0.6	1
74	Increased Need for Data Analytics Education in Support of Verification and Validation. , 2021, , .		1