

Jie Chen

List of Publications by Year in descending order

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82
papers

8,109
citations

57758

44
h-index

62596

80
g-index

88
all docs

88
docs citations

88
times ranked

11221
citing authors

#	ARTICLE	IF	CITATIONS
1	Phosphatidic Acid-Mediated Mitogenic Activation of mTOR Signaling. <i>Science</i> , 2001, 294, 1942-1945.	12.6	950
2	Control of p70 S6 kinase by kinase activity of FRAP in vivo. <i>Nature</i> , 1995, 377, 441-446.	27.8	665
3	Regulation of Peroxisome Proliferator-Activated Receptor- α Activity by Mammalian Target of Rapamycin and Amino Acids in Adipogenesis. <i>Diabetes</i> , 2004, 53, 2748-2756.	0.6	403
4	Probing cellular protein complexes using single-molecule pull-down. <i>Nature</i> , 2011, 473, 484-488.	27.8	375
5	Hepatic Hdac3 promotes gluconeogenesis by repressing lipid synthesis and sequestration. <i>Nature Medicine</i> , 2012, 18, 934-942.	30.7	285
6	TOR kinase domains are required for two distinct functions, only one of which is inhibited by rapamycin. <i>Cell</i> , 1995, 82, 121-130.	28.9	283
7	IGF-II is regulated by microRNA-125b in skeletal myogenesis. <i>Journal of Cell Biology</i> , 2011, 192, 69-81.	5.2	213
8	mTOR supports long-term self-renewal and suppresses mesoderm and endoderm activities of human embryonic stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 7840-7845.	7.1	193
9	Mammalian target of rapamycin regulates miRNA-1 and follistatin in skeletal myogenesis. <i>Journal of Cell Biology</i> , 2010, 189, 1157-1169.	5.2	183
10	Chapter 21 Interleukin-6 and Insulin Resistance. <i>Vitamins and Hormones</i> , 2009, 80, 613-633.	1.7	178
11	$\text{I}\pm 4$ Associates with Protein Phosphatases 2A, 4, and 6. <i>Biochemical and Biophysical Research Communications</i> , 1998, 247, 827-832.	2.1	168
12	Duration of Rapamycin Treatment Has Differential Effects on Metabolism in Mice. <i>Cell Metabolism</i> , 2013, 17, 456-462.	16.2	165
13	Electrochemical cues regulate assembly of the Frizzled/Dishevelled complex at the plasma membrane during planar epithelial polarization. <i>Nature Cell Biology</i> , 2009, 11, 286-294.	10.3	160
14	PLD1 Regulates mTOR Signaling and Mediates Cdc42 Activation of S6K1. <i>Current Biology</i> , 2003, 13, 2037-2044.	3.9	156
15	IGF-II transcription in skeletal myogenesis is controlled by mTOR and nutrients. <i>Journal of Cell Biology</i> , 2003, 163, 931-936.	5.2	152
16	Sequential involvement of Cdk1, mTOR and p53 in apoptosis induced by the HIV-1 envelope. <i>EMBO Journal</i> , 2002, 21, 4070-4080.	7.8	146
17	Class III PI-3-kinase activates phospholipase D in an amino acid-sensing mTORC1 pathway. <i>Journal of Cell Biology</i> , 2011, 195, 435-447.	5.2	146
18	MicroRNAs in skeletal myogenesis. <i>Cell Cycle</i> , 2011, 10, 441-448.	2.6	137

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19	The Mammalian Target of Rapamycin Regulates C2C12 Myogenesis via a Kinase-independent Mechanism. Journal of Biological Chemistry, 2001, 276, 36079-36082.	3.4	134
20	(+)-Discodermolide binds to microtubules in stoichiometric ratio to tubulin dimers, blocks taxol binding and results in mitotic arrest. Chemistry and Biology, 1996, 3, 287-293.	6.0	133
21	The FKBP12-Rapamycin-binding Domain Is Required for FKBP12-Rapamycin-associated Protein Kinase Activity and G1 Progression. Journal of Biological Chemistry, 1999, 274, 4266-4272.	3.4	130
22	EPRS is a critical mTORC1-“S6K1 effector that influences adiposity in mice. Nature, 2017, 542, 357-361.	27.8	130
23	Genome-wide adaptive complexes to underground stresses in blind mole rats Spalax. Nature Communications, 2014, 5, 3966.	12.8	124
24	Regulation of Interleukin-6-induced Hepatic Insulin Resistance by Mammalian Target of Rapamycin through the STAT3-SOCS3 Pathway. Journal of Biological Chemistry, 2008, 283, 708-715.	3.4	122
25	Phosphatidic Acid Activates Mammalian Target of Rapamycin Complex 1 (mTORC1) Kinase by Displacing FK506 Binding Protein 38 (FKBP38) and Exerting an Allosteric Effect. Journal of Biological Chemistry, 2011, 286, 29568-29574.	3.4	115
26	mTOR regulates skeletal muscle regeneration in vivo through kinase-dependent and kinase-independent mechanisms. American Journal of Physiology - Cell Physiology, 2009, 297, C1434-C1444.	4.6	112
27	A novel pathway regulating the mammalian target of rapamycin (mTOR) signaling. Biochemical Pharmacology, 2002, 64, 1071-1077.	4.4	106
28	A Phosphatidylinositol 3-Kinase/Protein Kinase B-independent Activation of Mammalian Target of Rapamycin Signaling Is Sufficient to Induce Skeletal Muscle Hypertrophy. Molecular Biology of the Cell, 2010, 21, 3258-3268.	2.1	102
29	Mammalian Target of Rapamycin (mTOR) Signaling Network in Skeletal Myogenesis. Journal of Biological Chemistry, 2012, 287, 43928-43935.	3.4	102
30	Glycerolipid signals alter mTOR complex 2 (mTORC2) to diminish insulin signaling. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1667-1672.	7.1	91
31	Rapid Mitogenic Regulation of the mTORC1 Inhibitor, DEPTOR, by Phosphatidic Acid. Molecular Cell, 2015, 58, 549-556.	9.7	84
32	Regulation of Ribosomal S6 Kinase 2 by Mammalian Target of Rapamycin. Journal of Biological Chemistry, 2002, 277, 31423-31429.	3.4	83
33	Mammalian Target of Rapamycin (mTOR) Signaling Is Required for a Late-stage Fusion Process during Skeletal Myotube Maturation. Journal of Biological Chemistry, 2005, 280, 32009-32017.	3.4	79
34	mTOR signaling: PLD takes center stage. Cell Cycle, 2008, 7, 3118-3123.	2.6	76
35	Mammalian target of rapamycin and Rictor control neutrophil chemotaxis by regulating Rac/Cdc42 activity and the actin cytoskeleton. Molecular Biology of the Cell, 2013, 24, 3369-3380.	2.1	75
36	Signal Transducer and Activator of Transcription 3 (STAT3) Mediates Amino Acid Inhibition of Insulin Signaling through Serine 727 Phosphorylation. Journal of Biological Chemistry, 2009, 284, 35425-35432.	3.4	73

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37	Leucyl-tRNA Synthetase Activates Vps34 in Amino Acid-Sensing mTORC1 Signaling. <i>Cell Reports</i> , 2016, 16, 1510-1517.	6.4	73
38	A Nuclear Transport Signal in Mammalian Target of Rapamycin Is Critical for Its Cytoplasmic Signaling to S6 Kinase 1. <i>Journal of Biological Chemistry</i> , 2006, 281, 7357-7363.	3.4	71
39	Skeletal myocyte hypertrophy requires mTOR kinase activity and S6K1. <i>Experimental Cell Research</i> , 2005, 309, 211-219.	2.6	69
40	Subunit dissociation affects DNA binding in a dimeric lac repressor produced by C-terminal deletion. <i>Biochemistry</i> , 1994, 33, 8728-8735.	2.5	61
41	PLD regulates myoblast differentiation through the mTOR-IGF2 pathway. <i>Journal of Cell Science</i> , 2008, 121, 282-289.	2.0	61
42	Helicobacter pylori Infection Modulates Host Cell Metabolism through VacA-Dependent Inhibition of mTORC1. <i>Cell Host and Microbe</i> , 2018, 23, 583-593.e8.	11.0	54
43	Forkhead Box Protein O1 Negatively Regulates Skeletal Myocyte Differentiation through Degradation of Mammalian Target of Rapamycin Pathway Components. <i>Endocrinology</i> , 2008, 149, 1407-1414.	2.8	53
44	Stoichiometry and assembly of mTOR complexes revealed by single-molecule pulldown. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17833-17838.	7.1	51
45	Mutually inhibitory Ras-PI(3,4)P ₂ feedback loops mediate cell migration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9125-E9134.	7.1	50
46	Lanthionine synthetase C ϵ -like protein 2 (LanCL2) is a novel regulator of Akt. <i>Molecular Biology of the Cell</i> , 2014, 25, 3954-3961.	2.1	46
47	To Grow or Not to Grow: TOR and SnRK2 Coordinate Growth and Stress Response in Arabidopsis. <i>Molecular Cell</i> , 2018, 69, 3-4.	9.7	44
48	MicroRNA-146b Promotes Myogenic Differentiation and Modulates Multiple Gene Targets in Muscle Cells. <i>PLoS ONE</i> , 2014, 9, e100657.	2.5	42
49	Distinct amino acid-sensing mTOR pathways regulate skeletal myogenesis. <i>Molecular Biology of the Cell</i> , 2013, 24, 3754-3763.	2.1	40
50	Effects of rapamycin on growth hormone receptor knockout mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E1495-E1503.	7.1	40
51	XPLN is an endogenous inhibitor of mTORC2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15979-15984.	7.1	38
52	FRAP-Dependent Serine Phosphorylation of IRS-1 Inhibits IRS-1 Tyrosine Phosphorylation. <i>Biochemical and Biophysical Research Communications</i> , 2001, 280, 776-781.	2.1	37
53	Raptor and Rheb Negatively Regulate Skeletal Myogenesis through Suppression of Insulin Receptor Substrate 1 (IRS1). <i>Journal of Biological Chemistry</i> , 2011, 286, 35675-35682.	3.4	36
54	Mechanistic target of rapamycin controls homeostasis of adipogenesis. <i>Journal of Lipid Research</i> , 2013, 54, 2166-2173.	4.2	34

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55	LanCLs add glutathione to dehydroamino acids generated at phosphorylated sites in the proteome. <i>Cell</i> , 2021, 184, 2680-2695.e26.	28.9	34
56	Redefining the specificity of phosphoinositide-binding by human PH domain-containing proteins. <i>Nature Communications</i> , 2021, 12, 4339.	12.8	27
57	Construction of A Dimeric Repressor: Dissection of Subunit Interfaces in Lac Repressor. <i>Biochemistry</i> , 1994, 33, 1234-1241.	2.5	26
58	Activation of mTOR signaling by novel fluoromethylene phosphonate analogues of phosphatidic acid. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004, 14, 1461-1464.	2.2	24
59	Lack of muscle mTOR kinase activity causes early onset myopathy and compromises whole-body homeostasis. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2019, 10, 35-53.	7.3	24
60	ARHGEF3 Regulates Skeletal Muscle Regeneration and Strength through Autophagy. <i>Cell Reports</i> , 2021, 34, 108594.	6.4	24
61	Nontranslational function of leucyl-tRNA synthetase regulates myogenic differentiation and skeletal muscle regeneration. <i>Journal of Clinical Investigation</i> , 2019, 129, 2088-2093.	8.2	22
62	RNAi Screen Reveals Potentially Novel Roles of Cytokines in Myoblast Differentiation. <i>PLoS ONE</i> , 2013, 8, e68068.	2.5	22
63	mTORC1 mediates fiber type-specific regulation of protein synthesis and muscle size during denervation. <i>Cell Death Discovery</i> , 2021, 7, 74.	4.7	20
64	LanCL proteins are not Involved in Lanthionine Synthesis in Mammals. <i>Scientific Reports</i> , 2017, 7, 40980.	3.3	20
65	Cxcl14 depletion accelerates skeletal myogenesis by promoting cell cycle withdrawal. <i>Npj Regenerative Medicine</i> , 2017, 2, .	5.2	18
66	T41 mutation in lac repressor is Tyr282→Asp. <i>Gene</i> , 1992, 111, 145-146.	2.2	16
67	Single-Molecule Analysis of Lipid-Protein Interactions in Crude Cell Lysates. <i>Analytical Chemistry</i> , 2016, 88, 4269-4276.	6.5	16
68	Muscle cell-derived cytokines in skeletal muscle regeneration. <i>FEBS Journal</i> , 2022, 289, 6463-6483.	4.7	14
69	Flt3L is a novel regulator of skeletal myogenesis. <i>Journal of Cell Science</i> , 2013, 126, 3370-9.	2.0	13
70	Amino acid-sensing mTOR signaling is involved in modulation of lipolysis by chronic insulin treatment in adipocytes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 296, E862-E868.	3.5	9
71	Î±7Î²1 Integrin regulation of gene transcription in skeletal muscle following an acute bout of eccentric exercise. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 312, C638-C650.	4.6	9
72	Autophagy-dependent regulation of skeletal muscle regeneration and strength by a RHOGEF. <i>Autophagy</i> , 2021, 17, 1044-1045.	9.1	8

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73	A non-translational role of threonyl-tRNA synthetase in regulating JNK signaling during myogenic differentiation. FASEB Journal, 2021, 35, e21948.	0.5	5
74	Protein Modulators Made to Order. Chemistry and Biology, 2002, 9, 543-544.	6.0	4
75	Lanthionine synthetase C-like protein 2 (LanCL2) is important for adipogenic differentiation. Journal of Lipid Research, 2018, 59, 1433-1445.	4.2	4
76	Lentivirus-Mediated RNAi in Skeletal Myogenesis. Methods in Molecular Biology, 2019, 1889, 95-110.	0.9	4
77	Aging Does Not Exacerbate Muscle Loss During Denervation and Lends Unique Muscle-Specific Atrophy Resistance With Akt Activation. Frontiers in Physiology, 2021, 12, 779547.	2.8	3
78	Muscle-derived TRAIL negatively regulates myogenic differentiation. Experimental Cell Research, 2020, 394, 112165.	2.6	2
79	Amino Acid-Sensing mTOR Signaling. Oxidative Stress and Disease, 2005, , .	0.3	0
80	Mammalian target of rapamycin regulates miRNA-1 and follistatin in skeletal myogenesis. Journal of Experimental Medicine, 2010, 207, i21-i21.	8.5	0
81	Flt3L is a novel regulator of skeletal myogenesis. Development (Cambridge), 2013, 140, e1707-e1707.	2.5	0
82	ARHGEF3 Regulates Skeletal Muscle Regeneration and Strength Through Autophagy. SSRN Electronic Journal, 0, , .	0.4	0