

Zhen Yan

List of Publications by Year in descending order

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114
papers

15,407
citations

34105

52
h-index

32842

100
g-index

116
all docs

116
docs citations

116
times ranked

27077
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Exercise Stimulates Pgc-1 β Transcription in Skeletal Muscle through Activation of the p38 MAPK Pathway. <i>Journal of Biological Chemistry</i> , 2005, 280, 19587-19593.	3.4	575
3	A PGC-1 β Isoform Induced by Resistance Training Regulates Skeletal Muscle Hypertrophy. <i>Cell</i> , 2012, 151, 1319-1331.	28.9	548
4	Skeletal Muscle Fiber-type Switching, Exercise Intolerance, and Myopathy in PGC-1 β Muscle-specific Knock-out Animals. <i>Journal of Biological Chemistry</i> , 2007, 282, 30014-30021.	3.4	530
5	microRNA-1 and microRNA-206 regulate skeletal muscle satellite cell proliferation and differentiation by repressing Pax7. <i>Journal of Cell Biology</i> , 2010, 190, 867-879.	5.2	530
6	Peroxisome Proliferator-activated Receptor- δ Co-activator 1 β -mediated Metabolic Remodeling of Skeletal Myocytes Mimics Exercise Training and Reverses Lipid-induced Mitochondrial Inefficiency. <i>Journal of Biological Chemistry</i> , 2005, 280, 33588-33598.	3.4	416
7	Structural modulation of gut microbiota in life-long calorie-restricted mice. <i>Nature Communications</i> , 2013, 4, 2163.	12.8	404
8	Autophagy is required for exercise training-induced skeletal muscle adaptation and improvement of physical performance. <i>FASEB Journal</i> , 2013, 27, 4184-4193.	0.5	344
9	Ampr phosphorylation of Ulk1 is required for targeting of mitochondria to lysosomes in exercise-induced mitophagy. <i>Nature Communications</i> , 2017, 8, 548.	12.8	333
10	PGC-1 β regulation by exercise training and its influences on muscle function and insulin sensitivity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010, 299, E145-E161.	3.5	313
11	Regulation of exercise-induced fiber type transformation, mitochondrial biogenesis, and angiogenesis in skeletal muscle. <i>Journal of Applied Physiology</i> , 2011, 110, 264-274.	2.5	261
12	Phosphatidylserine receptor BAI1 and apoptotic cells as new promoters of myoblast fusion. <i>Nature</i> , 2013, 497, 263-267.	27.8	239
13	Total Skeletal Muscle PGC-1 Deficiency Uncouples Mitochondrial Derangements from Fiber Type Determination and Insulin Sensitivity. <i>Cell Metabolism</i> , 2010, 12, 633-642.	16.2	230
14	Highly Coordinated Gene Regulation in Mouse Skeletal Muscle Regeneration. <i>Journal of Biological Chemistry</i> , 2003, 278, 8826-8836.	3.4	227
15	Intermittent pressure overload triggers hypertrophy-independent cardiac dysfunction and vascular rarefaction. <i>Journal of Clinical Investigation</i> , 2006, 116, 1547-1560.	8.2	220
16	PGC-1 β plays a functional role in exercise-induced mitochondrial biogenesis and angiogenesis but not fiber-type transformation in mouse skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 298, C572-C579.	4.6	203
17	miR-26a is required for skeletal muscle differentiation and regeneration in mice. <i>Genes and Development</i> , 2012, 26, 2180-2191.	5.9	200
18	A Novel MitoTimer Reporter Gene for Mitochondrial Content, Structure, Stress, and Damage in Vivo. <i>Journal of Biological Chemistry</i> , 2014, 289, 12005-12015.	3.4	196

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19	Induction of osteoarthritis and metabolic inflammation by a very high-fat diet in mice: Effects of short-term exercise. <i>Arthritis and Rheumatism</i> , 2012, 64, 443-453.	6.7	191
20	Exercise Training-Induced Regulation of Mitochondrial Quality. <i>Exercise and Sport Sciences Reviews</i> , 2012, 40, 159-164.	3.0	186
21	Exercise Prevents Maternal High-Fat Diet-Induced Hypermethylation of the <i>Pgc-1β</i> Gene and Age-Dependent Metabolic Dysfunction in the Offspring. <i>Diabetes</i> , 2014, 63, 1605-1611.	0.6	184
22	Molecular mechanisms for mitochondrial adaptation to exercise training in skeletal muscle. <i>FASEB Journal</i> , 2016, 30, 13-22.	0.5	179
23	Voluntary running induces fiber type-specific angiogenesis in mouse skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 287, C1342-C1348.	4.6	177
24	Identification of a novel mitochondrial uncoupler that does not depolarize the plasma membrane. <i>Molecular Metabolism</i> , 2014, 3, 114-123.	6.5	168
25	Translational Suppression of Atrophic Regulators by MicroRNA-23a Integrates Resistance to Skeletal Muscle Atrophy. <i>Journal of Biological Chemistry</i> , 2011, 286, 38456-38465.	3.4	165
26	MicroRNA-378 Targets the Myogenic Repressor MyoR during Myoblast Differentiation. <i>Journal of Biological Chemistry</i> , 2011, 286, 19431-19438.	3.4	147
27	p38 β Mitogen-Activated Protein Kinase Is a Key Regulator in Skeletal Muscle Metabolic Adaptation in Mice. <i>PLoS ONE</i> , 2009, 4, e7934.	2.5	136
28	Baf60c drives glycolytic metabolism in the muscle and improves systemic glucose homeostasis through Deptor-mediated Akt activation. <i>Nature Medicine</i> , 2013, 19, 640-645.	30.7	121
29	PR48, a Novel Regulatory Subunit of Protein Phosphatase 2A, Interacts with Cdc6 and Modulates DNA Replication in Human Cells. <i>Molecular and Cellular Biology</i> , 2000, 20, 1021-1029.	2.3	114
30	Dynamin-Related Protein 1 Deficiency Promotes Recovery from AKI. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 194-206.	6.1	110
31	Skeletal muscle adaptation in response to voluntary running in Ca ²⁺ /calmodulin-dependent protein kinase IV-deficient mice. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 287, C1311-C1319.	4.6	109
32	Real-time imaging of peroxisome proliferator-activated receptor- β coactivator-1 promoter activity in skeletal muscles of living mice. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 287, C790-C796.	4.6	108
33	Kruppel-like factor 15 regulates skeletal muscle lipid flux and exercise adaptation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6739-6744.	7.1	103
34	Oxidative Phenotype Protects Myofibers from Pathological Insults Induced by Chronic Heart Failure in Mice. <i>American Journal of Pathology</i> , 2007, 170, 599-608.	3.8	93
35	Disconnecting Mitochondrial Content from Respiratory Chain Capacity in PGC-1-Deficient Skeletal Muscle. <i>Cell Reports</i> , 2013, 3, 1449-1456.	6.4	93
36	TRPC3 channels confer cellular memory of recent neuromuscular activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 9387-9392.	7.1	91

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37	Notch3 and Mef2c Proteins Are Mutually Antagonistic via Mkp1 Protein and miR-1/206 MicroRNAs in Differentiating Myoblasts. <i>Journal of Biological Chemistry</i> , 2012, 287, 40360-40370.	3.4	87
38	Extracellular superoxide dismutase, a molecular transducer of health benefits of exercise. <i>Redox Biology</i> , 2020, 32, 101508.	9.0	87
39	Endurance Exercise and the Regulation of Skeletal Muscle Metabolism. <i>Progress in Molecular Biology and Translational Science</i> , 2015, 135, 129-151.	1.7	83
40	Navigating the signalling network in mouse cardiac myocytes. <i>Nature</i> , 2002, 420, 712-714.	27.8	81
41	PGC-1 β Promotes Nitric Oxide Antioxidant Defenses and Inhibits FOXO Signaling Against Cardiac Cachexia in Mice. <i>American Journal of Pathology</i> , 2011, 178, 1738-1748.	3.8	81
42	Autophagy is involved in adipogenic differentiation by repressing proteasome-dependent PPAR β degradation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 305, E530-E539.	3.5	78
43	Mitochondria-localized AMPK responds to local energetics and contributes to exercise and energetic stress-induced mitophagy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	75
44	Correction of Multiple Striated Muscles in Murine Pompe Disease Through Adeno-associated Virus-mediated Gene Therapy. <i>Molecular Therapy</i> , 2008, 16, 1366-1371.	8.2	70
45	Fiber Type-Specific Nitric Oxide Protects Oxidative Myofibers against Cachectic Stimuli. <i>PLoS ONE</i> , 2008, 3, e2086.	2.5	70
46	Mechanical stretch inhibits myoblast-to-adipocyte differentiation through Wnt signaling. <i>Biochemical and Biophysical Research Communications</i> , 2005, 329, 381-385.	2.1	68
47	Exercise Training Improves Plantar Flexor Muscle Function in mdx Mice. <i>Medicine and Science in Sports and Exercise</i> , 2012, 44, 1671-1679.	0.4	62
48	Epigenetic origins of metabolic disease: The impact of the maternal condition to the offspring epigenome and later health consequences. <i>Food Science and Human Wellness</i> , 2013, 2, 1-11.	4.9	61
49	Ulk1-mediated autophagy plays an essential role in mitochondrial remodeling and functional regeneration of skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 312, C724-C732.	4.6	60
50	Regulatory circuitry of TWEAK-Fn14 system and PGC-1 β in skeletal muscle atrophy program. <i>FASEB Journal</i> , 2014, 28, 1398-1411.	0.5	59
51	Resident stem cells are not required for exercise-induced fiber-type switching and angiogenesis but are necessary for activity-dependent muscle growth. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 290, C1461-C1468.	4.6	57
52	Midlife gene expressions identify modulators of aging through dietary interventions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E1201-9.	7.1	57
53	Analysis of the Major Patterns of B Cell Gene Expression Changes in Response to Short-Term Stimulation with 33 Single Ligands. <i>Journal of Immunology</i> , 2004, 173, 7141-7149.	0.8	55
54	Extracellular Superoxide Dismutase Ameliorates Skeletal Muscle Abnormalities, Cachexia, and Exercise Intolerance in Mice with Congestive Heart Failure. <i>Circulation: Heart Failure</i> , 2014, 7, 519-530.	3.9	54

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55	Functional interaction of regulatory factors with the Pgc-1 promoter in response to exercise by in vivo imaging. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 295, C288-C292.	4.6	52
56	Mitophagy in maintaining skeletal muscle mitochondrial proteostasis and metabolic health with ageing. <i>Journal of Physiology</i> , 2017, 595, 6391-6399.	2.9	48
57	AMPK and the Adaptation to Exercise. <i>Annual Review of Physiology</i> , 2022, 84, 209-227.	13.1	48
58	Exercise-Induced Mitophagy in Skeletal Muscle and Heart. <i>Exercise and Sport Sciences Reviews</i> , 2019, 47, 151-156.	3.0	47
59	Nrf2 deficiency in myeloid cells is not sufficient to protect mice from high-fat diet-induced adipose tissue inflammation and insulin resistance. <i>Free Radical Biology and Medicine</i> , 2012, 52, 1708-1715.	2.9	45
60	Caveolin-1 Deletion Prevents Hypertensive Vascular Remodeling Induced by Angiotensin II. <i>Hypertension</i> , 2017, 69, 79-86.	2.7	45
61	Regulatory Elements Governing Transcription in Specialized Myofiber Subtypes. <i>Journal of Biological Chemistry</i> , 2001, 276, 17361-17366.	3.4	43
62	Conditional MitoTimer reporter mice for assessment of mitochondrial structure, oxidative stress, and mitophagy. <i>Mitochondrion</i> , 2019, 44, 20-26.	3.4	43
63	Conditional Expression of SV40 T-antigen in Mouse Cardiomyocytes Facilitates an Inducible Switch from Proliferation to Differentiation. <i>Journal of Biological Chemistry</i> , 2003, 278, 15927-15934.	3.4	42
64	Exercise-induced mitophagy in skeletal muscle occurs in the absence of stabilization of Pink1 on mitochondria. <i>Cell Cycle</i> , 2019, 18, 1-6.	2.6	42
65	A novel voluntary weightlifting model in mice promotes muscle adaptation and insulin sensitivity with simultaneous enhancement of autophagy and mTOR pathway. <i>FASEB Journal</i> , 2020, 34, 7330-7344.	0.5	42
66	Calorie restriction and endurance exercise share potent anti-inflammatory function in adipose tissues in ameliorating diet-induced obesity and insulin resistance in mice. <i>Nutrition and Metabolism</i> , 2010, 7, 59.	3.0	41
67	Protein Phosphatase 2A Is Targeted to Cell Division Control Protein 6 by a Calcium-binding Regulatory Subunit. <i>Journal of Biological Chemistry</i> , 2008, 283, 16104-16114.	3.4	40
68	HDAC4 Regulates Muscle Fiber Type-Specific Gene Expression Programs. <i>Molecules and Cells</i> , 2015, 38, 343-348.	2.6	38
69	Reactive Oxygen Species/Nitric Oxide Mediated Inter-Organ Communication in Skeletal Muscle Wasting Diseases. <i>Antioxidants and Redox Signaling</i> , 2017, 26, 700-717.	5.4	38
70	Transcriptional profiling in mouse skeletal muscle following a single bout of voluntary running: evidence of increased cell proliferation. <i>Journal of Applied Physiology</i> , 2005, 99, 2406-2415.	2.5	37
71	Deletion of the Protein Kinase A/Protein Kinase G Target SMTNL1 Promotes an Exercise-adapted Phenotype in Vascular Smooth Muscle. <i>Journal of Biological Chemistry</i> , 2008, 283, 11850-11859.	3.4	37
72	The myocardial infarct-exacerbating effect of cell-free DNA is mediated by the high-mobility group box 1 receptor for advanced glycation end products-Toll-like receptor 9 pathway. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2019, 157, 2256-2269.e3.	0.8	37

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73	The Mitochondrial Permeability Transition Pore Regulator Cyclophilin D Exhibits Tissue-Specific Control of Metabolic Homeostasis. <i>PLoS ONE</i> , 2016, 11, e0167910.	2.5	34
74	Enhanced Skeletal Muscle Expression of Extracellular Superoxide Dismutase Mitigates Streptozotocin-Induced Diabetic Cardiomyopathy by Reducing Oxidative Stress and Aberrant Cell Signaling. <i>Circulation: Heart Failure</i> , 2015, 8, 188-197.	3.9	32
75	Exercise leads to unfavourable cardiac remodelling and enhanced metabolic homeostasis in obese mice with cardiac and skeletal muscle autophagy deficiency. <i>Scientific Reports</i> , 2017, 7, 7894.	3.3	32
76	Possible roles for ATP release from RBCs exclude the cAMP-mediated Panx1 pathway. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 313, C593-C603.	4.6	30
77	A venous-specific purinergic signaling cascade initiated by Pannexin 1 regulates TNF α -induced increases in endothelial permeability. <i>Science Signaling</i> , 2021, 14, .	3.6	30
78	Voluntary Running Suppresses Proinflammatory Cytokines and Bone Marrow Endothelial Progenitor Cell Levels in Apolipoprotein-E α Deficient Mice. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 15-23.	5.4	26
79	Exercise, PGC-1 α , and metabolic adaptation in skeletal muscle This paper article is one of a selection of papers published in this Special Issue, entitled 14th International Biochemistry of Exercise Conference "Muscles as Molecular and Metabolic Machines, and has undergone the Journal's usual peer review process. <i>Applied Physiology, Nutrition and Metabolism</i> , 2009, 34, 424-427.	1.9	25
80	Atg2, Atg9 and Atg18 in mitochondrial integrity, cardiac function and healthspan in <i>Drosophila</i> . <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 127, 116-124.	1.9	25
81	Transcriptional Control of the Pgc-1 α Gene in Skeletal Muscle In Vivo. <i>Exercise and Sport Sciences Reviews</i> , 2007, 35, 97-101.	3.0	24
82	Myocyte Specific Overexpression of Myoglobin Impairs Angiogenesis After Hind-Limb Ischemia. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008, 28, 2144-2150.	2.4	22
83	Cytochrome c mRNA in skeletal muscles of immobilized limbs. <i>Journal of Applied Physiology</i> , 1996, 81, 1941-1945.	2.5	21
84	Mitochondrial protein S-nitrosation protects against ischemia reperfusion-induced denervation at neuromuscular junction in skeletal muscle. <i>Free Radical Biology and Medicine</i> , 2018, 117, 180-190.	2.9	21
85	Muscle-derived extracellular superoxide dismutase inhibits endothelial activation and protects against multiple organ dysfunction syndrome in mice. <i>Free Radical Biology and Medicine</i> , 2017, 113, 212-223.	2.9	20
86	Molecular Mechanisms of Exercise and Healthspan. <i>Cells</i> , 2022, 11, 872.	4.1	14
87	Muscle-specific activation of Ca ²⁺ /calmodulin-dependent protein kinase IV increases whole-body insulin action in mice. <i>Diabetologia</i> , 2014, 57, 1232-1241.	6.3	12
88	Voluntary running protects against neuromuscular dysfunction following hindlimb ischemia-reperfusion in mice. <i>Journal of Applied Physiology</i> , 2019, 126, 193-201.	2.5	11
89	Exercise during pregnancy mitigates negative effects of parental obesity on metabolic function in adult mouse offspring. <i>Journal of Applied Physiology</i> , 2021, 130, 605-616.	2.5	11
90	Long-term voluntary running prevents the onset of symptomatic Friedreich's ataxia in mice. <i>Scientific Reports</i> , 2020, 10, 6095.	3.3	10

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91	Cytochrome <i>c</i> /i> promoter activity in soleus and white vastus lateralis muscles in rats. Journal of Applied Physiology, 1998, 85, 973-978.	2.5	9
92	Lysophosphatidic acid counteracts glucagon-induced hepatocyte glucose production via STAT3. Scientific Reports, 2017, 7, 127.	3.3	9
93	AMPK-mediated potentiation of GABAergic signalling drives hypoglycaemia-provoked spike-wave seizures. Brain, 2022, 145, 2332-2346.	7.6	7
94	Involvement of mTOR in Type 2 CRF Receptor Inhibition of Insulin Signaling in Muscle Cells. Molecular Endocrinology, 2015, 29, 831-841.	3.7	6
95	Precision remodeling: how exercise improves mitochondrial quality in myofibers. Current Opinion in Physiology, 2019, 10, 96-101.	1.8	6
96	Response to Comment on Laķer et al. Exercise Prevents Maternal High-Fat Dietâ€“Induced Hypermethylation of the Pgc-1 α Gene and Age-Dependent Metabolic Dysfunction in the Offspring. Diabetes 2014;63:1605âˆ“1611. Diabetes, 2014, 63, e6-e7.	0.6	5
97	Atg6 deficiency exacerbates glucose intolerance in mice on highâ€“fat diet. FASEB Journal, 2012, 26, 869.18.	0.5	3
98	Ulk1, Not Ulk2, Is Required for Exercise Training-Induced Improvement of Insulin Response in Skeletal Muscle. Frontiers in Physiology, 2021, 12, 732308.	2.8	2
99	Targeting healthspan to optimally combat non-communicable disease in an aging world. Sports Medicine and Health Science, 2019, 1, 59-60.	2.0	1
100	p38 gamma Mapk is required for exerciseâ€“induced Pgcâ€“1 α expression and mitochondrial biogenesis in skeletal muscle. FASEB Journal, 2008, 22, 754.18.	0.5	1
101	Voluntary Exercise Suppresses Choroidal Neovascularization in Mice. , 2020, 61, 52.		1
102	Total Skeletal Muscle PGC-1 Deficiency Uncouples Mitochondrial Derangements from Fiber Type Determination and Insulin Sensitivity. Cell Metabolism, 2011, 13, 114.	16.2	0
103	Manifested skeletal muscle abnormalities in fastâ€“twitch, glycolytic myofibers in mice of chronic heart failure. FASEB Journal, 2006, 20, A387.	0.5	0
104	PGCâ€“1 α is required for exerciseâ€“induced mitochondrial biogenesis, but not fiber type transformation, in skeletal muscle. FASEB Journal, 2008, 22, 754.17.	0.5	0
105	NOâ€“dependent upâ€“regulation of antioxidant genes protects oxidative myofibers from cachectic stimuli in mice. FASEB Journal, 2008, 22, 754.16.	0.5	0
106	A functional role of superoxide dismutase 3 in nitric oxideâ€“mediated protection against catabolic wasting in skeletal muscle. FASEB Journal, 2010, 24, lb672.	0.5	0
107	Increased contractile activity induces autophagy in skeletal muscle. FASEB Journal, 2010, 24, lb646.	0.5	0
108	Exercise during pregnancy attenuates prenatal highâ€“fat dietâ€“induced hypermethylation of Pgcâ€“1 α in skeletal muscle. FASEB Journal, 2012, 26, 1086.19.	0.5	0

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109	Enhanced expression of EcSOD in skeletal muscle blocks chronic heart failure-induced muscle atrophy and exercise intolerance in mice. <i>FASEB Journal</i> , 2012, 26, .	0.5	0
110	A novel MitoTimer reporter gene for measurement of mitochondrial quantity and quality in vivo. <i>FASEB Journal</i> , 2013, 27, 1209.5.	0.5	0
111	Exercise during pregnancy attenuates prenatal high-fat diet-induced hypermethylation of the Pgc1 β gene and protects against age-induced glucose intolerance in the offspring. <i>FASEB Journal</i> , 2013, 27, 1134.3.	0.5	0
112	Muscle-specific deletion of p38 β /MAPK improves glucose tolerance and reduces body fat but impairs exercise capacity. <i>FASEB Journal</i> , 2013, 27, 1152.22.	0.5	0
113	The Mitochondrial Permeability Transition Pore Regulator Cyclophilin D Exhibits Tissue-Specific Control of Metabolic Homeostasis. <i>FASEB Journal</i> , 2015, 29, 1036.14.	0.5	0
114	Ulk1 is Required for Lysosome Targeting to Damaged Mitochondria Following Acute Exercise. <i>FASEB Journal</i> , 2015, 29, 821.9.	0.5	0