

Zoltan Arany

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102
papers

6,824
citations

40
h-index

82
g-index

124
ext. papers

8,820
ext. citations

13.6
avg, IF

6.16
L-index

#	Paper	IF	Citations
102	HIF-independent regulation of VEGF and angiogenesis by the transcriptional coactivator PGC-1alpha. <i>Nature</i> , 2008 , 451, 1008-12	50.4	808
101	Transcriptional coactivator PGC-1 alpha controls the energy state and contractile function of cardiac muscle. <i>Cell Metabolism</i> , 2005 , 1, 259-71	24.6	532
100	Cardiac angiogenic imbalance leads to peripartum cardiomyopathy. <i>Nature</i> , 2012 , 485, 333-8	50.4	348
99	The transcriptional coactivator PGC-1beta drives the formation of oxidative type IIX fibers in skeletal muscle. <i>Cell Metabolism</i> , 2007 , 5, 35-46	24.6	300
98	Transverse aortic constriction leads to accelerated heart failure in mice lacking PPAR-gamma coactivator 1alpha. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 10086-91	11.5	298
97	Shared Genetic Predisposition in Peripartum and Dilated Cardiomyopathies. <i>New England Journal of Medicine</i> , 2016 , 374, 233-41	59.2	290
96	A branched-chain amino acid metabolite drives vascular fatty acid transport and causes insulin resistance. <i>Nature Medicine</i> , 2016 , 22, 421-6	50.5	283
95	The transcriptional coactivator PGC-1alpha mediates exercise-induced angiogenesis in skeletal muscle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 21401-6	11.5	272
94	PGC-1 coactivators in cardiac development and disease. <i>Circulation Research</i> , 2010 , 107, 825-38	15.7	241
93	Impairment of an Endothelial NAD-HS Signaling Network Is a Reversible Cause of Vascular Aging. <i>Cell</i> , 2018 , 173, 74-89.e20	56.2	205
92	Peripartum Cardiomyopathy. <i>Circulation</i> , 2016 , 133, 1397-409	16.7	203
91	The relationship between pre-eclampsia and peripartum cardiomyopathy: a systematic review and meta-analysis. <i>Journal of the American College of Cardiology</i> , 2013 , 62, 1715-1723	15.1	175
90	PGC-1 coactivators and skeletal muscle adaptations in health and disease. <i>Current Opinion in Genetics and Development</i> , 2008 , 18, 426-34	4.9	168
89	Quantitative Analysis of the Whole-Body Metabolic Fate of Branched-Chain Amino Acids. <i>Cell Metabolism</i> , 2019 , 29, 417-429.e4	24.6	149
88	Branched Chain Amino Acids. <i>Annual Review of Physiology</i> , 2019 , 81, 139-164	23.1	129
87	Glutamine fuels proliferation but not migration of endothelial cells. <i>EMBO Journal</i> , 2017 , 36, 2321-2333	13	118
86	Genetic Variants Associated With Cancer Therapy-Induced Cardiomyopathy. <i>Circulation</i> , 2019 , 140, 31-41	16.7	110

85	Endothelial PGC-1 α mediates vascular dysfunction in diabetes. <i>Cell Metabolism</i> , 2014 , 19, 246-58	24.6	110
84	NADPH production by the oxidative pentose-phosphate pathway supports folate metabolism. <i>Nature Metabolism</i> , 2019 , 1, 404-415	14.6	92
83	Comprehensive quantification of fuel use by the failing and nonfailing human heart. <i>Science</i> , 2020 , 370, 364-368	33.3	89
82	Peripartum Cardiomyopathy: JACC State-of-the-Art Review. <i>Journal of the American College of Cardiology</i> , 2020 , 75, 207-221	15.1	83
81	The many roles of PGC-1 α in muscle—recent developments. <i>Metabolism: Clinical and Experimental</i> , 2014 , 63, 441-51	12.7	81
80	Subclinical left ventricular dysfunction in preeclamptic women with preserved left ventricular ejection fraction: a 2D speckle-tracking imaging study. <i>Circulation: Cardiovascular Imaging</i> , 2012 , 5, 734-9 ³ .9	9 ³ .9	80
79	Disconnecting mitochondrial content from respiratory chain capacity in PGC-1-deficient skeletal muscle. <i>Cell Reports</i> , 2013 , 3, 1449-56	10.6	78
78	The ADP/ATP translocase drives mitophagy independent of nucleotide exchange. <i>Nature</i> , 2019 , 575, 375-379	50.4	77
77	Comparison of Clinical Characteristics and Outcomes of Peripartum Cardiomyopathy Between African American and Non-African American Women. <i>JAMA Cardiology</i> , 2017 , 2, 1256-1260	16.2	73
76	Gene expression-based screening identifies microtubule inhibitors as inducers of PGC-1 α and oxidative phosphorylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 4721-6	11.5	73
75	The tumor suppressor FLCN mediates an alternate mTOR pathway to regulate browning of adipose tissue. <i>Genes and Development</i> , 2016 , 30, 2551-2564	12.6	71
74	Maternal cardiac metabolism in pregnancy. <i>Cardiovascular Research</i> , 2014 , 101, 545-53	9.9	66
73	Branched Chain Amino Acids in Metabolic Disease. <i>Current Diabetes Reports</i> , 2018 , 18, 76	5.6	64
72	NADPH production by the oxidative pentose-phosphate pathway supports folate metabolism. <i>Nature Metabolism</i> , 2019 , 1, 404-415	14.6	63
71	PGC-1 α induces SPP1 to activate macrophages and orchestrate functional angiogenesis in skeletal muscle. <i>Circulation Research</i> , 2014 , 115, 504-17	15.7	57
70	PGC-1 α induces Human RPE Oxidative Metabolism and Antioxidant Capacity 2016 , 57, 1038-51		54
69	Exercise-induced mitochondrial p53 repairs mtDNA mutations in mutator mice. <i>Skeletal Muscle</i> , 2016 , 6, 7	5.1	53
68	Mitochondrial calcium exchange links metabolism with the epigenome to control cellular differentiation. <i>Nature Communications</i> , 2019 , 10, 4509	17.4	49

67	Genomics-First Evaluation of Heart Disease Associated With Titin-Truncating Variants. <i>Circulation</i> , 2019 , 140, 42-54	16.7	46
66	Unlocking the Secrets of Mitochondria in the Cardiovascular System: Path to a Cure in Heart Failure—A Report from the 2018 National Heart, Lung, and Blood Institute Workshop. <i>Circulation</i> , 2019 , 140, 1205-1216	16.7	43
65	Circulating Antiangiogenic Factors and Myocardial Dysfunction in Hypertensive Disorders of Pregnancy. <i>Hypertension</i> , 2016 , 67, 1273-80	8.5	43
64	Relaxin-2 and Soluble Flt1 Levels in Peripartum Cardiomyopathy: Results of the Multicenter IPAC Study. <i>JACC: Heart Failure</i> , 2016 , 4, 380-8	7.9	42
63	Molecular mechanisms of peripartum cardiomyopathy: A vascular/hormonal hypothesis. <i>Trends in Cardiovascular Medicine</i> , 2015 , 25, 499-504	6.9	41
62	PGC-1 β regulates angiogenesis in skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011 , 301, E155-63	6	39
61	The small intestine shields the liver from fructose-induced steatosis. <i>Nature Metabolism</i> , 2020 , 2, 586-593	4.6	38
60	Fructose metabolism, cardiometabolic risk, and the epidemic of coronary artery disease. <i>European Heart Journal</i> , 2018 , 39, 2497-2505	9.5	38
59	Post-natal induction of PGC-1 β protects against severe muscle dystrophy independently of utrophin. <i>Skeletal Muscle</i> , 2014 , 4, 2	5.1	37
58	Endothelial pyruvate kinase M2 maintains vascular integrity. <i>Journal of Clinical Investigation</i> , 2018 , 128, 4543-4556	15.9	37
57	Increasing the level of peroxisome proliferator-activated receptor α coactivator-1 β in podocytes results in collapsing glomerulopathy. <i>JCI Insight</i> , 2017 , 2,	9.9	30
56	Transcription Factor Tfe3 Directly Regulates Pgc-1alpha in Muscle. <i>Journal of Cellular Physiology</i> , 2015 , 230, 2330-6	7	24
55	Metabolic Regulation of Angiogenesis in Diabetes and Aging. <i>Physiology</i> , 2017 , 32, 290-307	9.8	21
54	Local Mitochondrial ATP Production Regulates Endothelial Fatty Acid Uptake and Transport. <i>Cell Metabolism</i> , 2020 , 32, 309-319.e7	24.6	18
53	PDK4 Inhibits Cardiac Pyruvate Oxidation in Late Pregnancy. <i>Circulation Research</i> , 2017 , 121, 1370-1378	15.7	17
52	Increased Cancer Prevalence in Peripartum Cardiomyopathy. <i>JACC: CardioOncology</i> , 2019 , 1, 196-205	3.8	17
51	Understanding Peripartum Cardiomyopathy. <i>Annual Review of Medicine</i> , 2018 , 69, 165-176	17.4	17
50	Identifying the Critical Gaps in Research on Sex Differences in Metabolism Across the Life Span. <i>Endocrinology</i> , 2018 , 159, 9-19	4.8	17

49	Cardiogenic shock in pregnancy: Analysis from the National Inpatient Sample. <i>Hypertension in Pregnancy</i> , 2017 , 36, 117-123	2	16
48	Use of Impella heart pump for management of women with peripartum cardiogenic shock. <i>Clinical Cardiology</i> , 2019 , 42, 974-981	3.3	13
47	Development of dilated cardiomyopathy and impaired calcium homeostasis with cardiac-specific deletion of ESRR α . <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017 , 312, H662-H671	5.2	12
46	Cardiac endothelial cells maintain open chromatin and expression of cardiomyocyte myofibrillar genes. <i>ELife</i> , 2020 , 9,	8.9	12
45	Heme oxygenase and carbon monoxide protect from muscle dystrophy. <i>Skeletal Muscle</i> , 2016 , 6, 41	5.1	12
44	Myocardial performance index in hypertensive disorders of pregnancy: The relationship between blood pressures and angiogenic factors. <i>Hypertension in Pregnancy</i> , 2017 , 36, 161-167	2	11
43	Myobolites: muscle-derived metabolites with paracrine and systemic effects. <i>Current Opinion in Pharmacology</i> , 2017 , 34, 15-20	5.1	11
42	SOX15 governs transcription in human stratified epithelia and a subset of esophageal adenocarcinomas. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2015 , 1, 598-609.e6	7.9	11
41	Genetic and Phenotypic Landscape of Peripartum Cardiomyopathy. <i>Circulation</i> , 2021 , 143, 1852-1862	16.7	11
40	Myeloid Folliculin balances mTOR activation to maintain innate immunity homeostasis. <i>JCI Insight</i> , 2019 , 5,	9.9	10
39	In peripartum cardiomyopathy plasminogen activator inhibitor-1 is a potential new biomarker with controversial roles. <i>Cardiovascular Research</i> , 2020 , 116, 1875-1886	9.9	10
38	Importance of Early Diagnosis in Peripartum Cardiomyopathy. <i>Hypertension</i> , 2020 , 75, 91-97	8.5	10
37	Thymic stromal lymphopoietin induces adipose loss through sebium hypersecretion. <i>Science</i> , 2021 , 373,	33.3	10
36	Persistent cardiac dysfunction on echocardiography in African American women with severe preeclampsia. <i>Pregnancy Hypertension</i> , 2019 , 17, 127-132	2.6	9
35	Regulation of maternal-fetal metabolic communication. <i>Cellular and Molecular Life Sciences</i> , 2021 , 78, 1455-1486	10.3	9
34	Genomic Risk Stratification Predicts All-Cause Mortality After Cardiac Catheterization. <i>Circulation Genomic and Precision Medicine</i> , 2018 , 11, e002352	5.2	9
33	Functional effects of muscle PGC-1 α in aged animals. <i>Skeletal Muscle</i> , 2020 , 10, 14	5.1	8
32	Transcriptome-wide co-expression analysis identifies LRRC2 as a novel mediator of mitochondrial and cardiac function. <i>PLoS ONE</i> , 2017 , 12, e0170458	3.7	8

31	Peripartum cardiomyopathy: An epidemiologic study of early and late presentations. <i>Pregnancy Hypertension</i> , 2018 , 13, 273-278	2.6	7
30	APOL1 risk variants in individuals of African genetic ancestry drive endothelial cell defects that exacerbate sepsis. <i>Immunity</i> , 2021 , 54, 2632-2649.e6	32.3	7
29	Inhibition of nonalcoholic fatty liver disease in mice by selective inhibition of mTORC1.. <i>Science</i> , 2022 , 376, eabf8271	33.3	7
28	Multimodality assessment of heart failure with preserved ejection fraction skeletal muscle reveals differences in the machinery of energy fuel metabolism. <i>ESC Heart Failure</i> , 2021 , 8, 2698-2712	3.7	6
27	Mitochondria Cripple without Krüppel. <i>Trends in Endocrinology and Metabolism</i> , 2015 , 26, 587-589	8.8	5
26	Fat, Obesity, and the Endothelium. <i>Current Opinion in Physiology</i> , 2019 , 12, 44-50	2.6	4
25	Case records of the Massachusetts General Hospital. Case 22-2014. A 40-year-old woman with postpartum dyspnea and hypoxemia. <i>New England Journal of Medicine</i> , 2014 , 371, 261-9	59.2	4
24	AKT controls protein synthesis and oxidative metabolism via combined mTORC1 and FOXO1 signalling to govern muscle physiology. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2021 ,	10.3	4
23	Peripartum cardiomyopathy: from genetics to management. <i>European Heart Journal</i> , 2021 , 42, 3094-3102	9.5	4
22	Taking a BAT to the Chains of Diabetes. <i>New England Journal of Medicine</i> , 2019 , 381, 2270-2272	59.2	4
21	Effect of Interleukin-15 Receptor Alpha Ablation on the Metabolic Responses to Moderate Exercise Simulated by Isometric Muscle Contractions. <i>Frontiers in Physiology</i> , 2019 , 10, 1439	4.6	4
20	Neighborhood education status drives racial disparities in clinical outcomes in PPCM. <i>American Heart Journal</i> , 2021 , 238, 27-32	4.9	4
19	Bromocriptine for the treatment of peripartum cardiomyopathy: comparison of outcome with a Danish cohort. <i>European Heart Journal</i> , 2018 , 39, 3476-3477	9.5	3
18	Truncated titin proteins in dilated cardiomyopathy. <i>Science Translational Medicine</i> , 2021 , 13, eabd7287	17.5	3
17	MitoScape: A big-data, machine-learning platform for obtaining mitochondrial DNA from next-generation sequencing data. <i>PLoS Computational Biology</i> , 2021 , 17, e1009594	5	3
16	Laminar Flow on Endothelial Cells Suppresses eNOS O-GlcNAcylation to Promote eNOS Activity. <i>Circulation Research</i> , 2021 , 129, 1054-1066	15.7	3
15	High-throughput real-time PCR for detection of gene-expression levels. <i>Methods in Molecular Biology</i> , 2009 , 486, 167-75	1.4	3
14	Women with peripartum cardiomyopathy have normal ejection fraction, but abnormal systolic strain, during pregnancy. <i>ESC Heart Failure</i> , 2021 , 8, 3382-3386	3.7	3

13	Comparison of Exogenous Ketone Administration versus Dietary Carbohydrate Restriction on Myocardial Glucose Suppression: A Crossover Clinical Trial. <i>Journal of Nuclear Medicine</i> , 2021 ,	8.9	2
12	Folliculin promotes substrate-selective mTORC1 activity by activating RagC to recruit TFE3.. <i>PLoS Biology</i> , 2022 , 20, e3001594	9.7	2
11	Endothelium-derived lactate is required for pericyte function and blood-brain barrier maintenance.. <i>EMBO Journal</i> , 2022 , e109890	13	2
10	Noncanonical WNT Activation in Human Right Ventricular Heart Failure. <i>Frontiers in Cardiovascular Medicine</i> , 2020 , 7, 582407	5.4	1
9	Defects in the Proteome and Metabolome in Human Hypertrophic Cardiomyopathy.. <i>Circulation: Heart Failure</i> , 2022 , CIRCHEARTFAILURE121009521	7.6	1
8	Glutaminolysis is Essential for Myofibroblast Persistence and In Vivo Targeting Reverses Fibrosis and Cardiac Dysfunction in Heart Failure. <i>Circulation</i> , 2022 , 145, 1625-1628	16.7	1
7	Differential Outcomes for African-American Women with Cardiovascular Complications of Pregnancy. <i>Current Treatment Options in Cardiovascular Medicine</i> , 2020 , 22, 1	2.1	0
6	Whole-body metabolic fate of branched-chain amino acids. <i>Biochemical Journal</i> , 2021 , 478, 765-776	3.8	0
5	Shear stress switches the association of endothelial enhancers from ETV/ETS to KLF transcription factor binding sites.. <i>Scientific Reports</i> , 2022 , 12, 4795	4.9	0
4	Direct anabolic metabolism of three carbon propionate to a six carbon metabolite occurs in vivo across tissues and species.. <i>Journal of Lipid Research</i> , 2022 , 100224	6.3	0
3	Response by Arany and Elkayam to Letter Regarding Article, "Peripartum Cardiomyopathy". <i>Circulation</i> , 2016 , 134, e83-4	16.7	
2	Soluble Flt1 levels are associated with cardiac dysfunction in Black women with and without severe preeclampsia. <i>Hypertension in Pregnancy</i> , 2021 , 40, 44-49	2	
1	PGC-1 isoforms modulate the antioxidant response of photoreceptors to photo-oxidative stress. <i>FASEB Journal</i> , 2013 , 27, 1086.10	0.9	