

Jennifer Davis

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.

44
papers

2,220
citations

25
h-index

47
g-index

51
ext. papers

2,664
ext. citations

11.4
avg, IF

4.99
L-index

#	Paper	IF	Citations
44	A TRPC6-dependent pathway for myofibroblast transdifferentiation and wound healing in vivo. <i>Developmental Cell</i> , 2012 , 23, 705-15	10.2	229
43	Myofibroblasts: trust your heart and let fate decide. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 70, 9-18	5.8	211
42	Extracellular signal-regulated kinases 1 and 2 regulate the balance between eccentric and concentric cardiac growth. <i>Circulation Research</i> , 2011 , 108, 176-83	15.7	168
41	Fibroblast-Specific Genetic Manipulation of p38 Mitogen-Activated Protein Kinase In Vivo Reveals Its Central Regulatory Role in Fibrosis. <i>Circulation</i> , 2017 , 136, 549-561	16.7	157
40	Correlation between active and passive isometric force and intramuscular pressure in the isolated rabbit tibialis anterior muscle. <i>Journal of Biomechanics</i> , 2003 , 36, 505-12	2.9	151
39	A Tension-Based Model Distinguishes Hypertrophic versus Dilated Cardiomyopathy. <i>Cell</i> , 2016 , 165, 1147-1159	15.7	122
38	Structural and functional roles of desmin in mouse skeletal muscle during passive deformation. <i>Biophysical Journal</i> , 2004 , 86, 2993-3008	2.9	101
37	Chronic administration of membrane sealant prevents severe cardiac injury and ventricular dilatation in dystrophic dogs. <i>Journal of Clinical Investigation</i> , 2010 , 120, 1140-50	15.9	90
36	Molecular networks underlying myofibroblast fate and fibrosis. <i>Journal of Molecular and Cellular Cardiology</i> , 2016 , 97, 153-61	5.8	86
35	Transient receptor potential channels contribute to pathological structural and functional remodeling after myocardial infarction. <i>Circulation Research</i> , 2014 , 115, 567-580	15.7	84
34	Lost in transgenesis: a user's guide for genetically manipulating the mouse in cardiac research. <i>Circulation Research</i> , 2012 , 111, 761-77	15.7	78
33	Cyclic Stiffness Modulation of Cell-Laden Protein-Polymer Hydrogels in Response to User-Specified Stimuli including Light. <i>Advanced Biology</i> , 2018 , 2, 1800240	3.5	62
32	Thin filament disinhibition by restrictive cardiomyopathy mutant R193H troponin I induces Ca ²⁺ -independent mechanical tone and acute myocyte remodeling. <i>Circulation Research</i> , 2007 , 100, 1494-502	15.7	59
31	MBNL1-mediated regulation of differentiation RNAs promotes myofibroblast transformation and the fibrotic response. <i>Nature Communications</i> , 2015 , 6, 10084	17.4	43
30	Overexpression of the Na ⁺ /K ⁺ ATPase α but not β isoform attenuates pathological cardiac hypertrophy and remodeling. <i>Circulation Research</i> , 2014 , 114, 249-256	15.7	43
29	Enhanced Ca ²⁺ influx from STIM1-Orai1 induces muscle pathology in mouse models of muscular dystrophy. <i>Human Molecular Genetics</i> , 2014 , 23, 3706-15	5.6	42
28	Designing heart performance by gene transfer. <i>Physiological Reviews</i> , 2008 , 88, 1567-651	47.9	40

27	Muscular dystrophy in a dish: engineered human skeletal muscle mimetics for disease modeling and drug discovery. <i>Drug Discovery Today</i> , 2016 , 21, 1387-1398	8.8	39
26	Heart-specific deletion of CnB1 reveals multiple mechanisms whereby calcineurin regulates cardiac growth and function. <i>Journal of Biological Chemistry</i> , 2010 , 285, 6716-24	5.4	36
25	The mitochondrial calcium uniporter underlies metabolic fuel preference in skeletal muscle. <i>JCI Insight</i> , 2018 , 3,	9.9	35
24	Noncanonical EF-hand motif strategically delays Ca ²⁺ buffering to enhance cardiac performance. <i>Nature Medicine</i> , 2013 , 19, 305-12	50.5	34
23	Cardiac-specific deletion of protein phosphatase 1 α promotes increased myofilament protein phosphorylation and contractile alterations. <i>Journal of Molecular and Cellular Cardiology</i> , 2015 , 87, 204-13	5.8	34
22	Performance characteristics of a pressure microsensor. <i>Journal of Biomechanics</i> , 2003 , 36, 283-7	2.9	34
21	Allele and species dependent contractile defects by restrictive and hypertrophic cardiomyopathy-linked troponin I mutants. <i>Journal of Molecular and Cellular Cardiology</i> , 2008 , 44, 891-904	5.8	33
20	Thrombospondin expression in myofibers stabilizes muscle membranes. <i>ELife</i> , 2016 , 5,	8.9	27
19	Relationship between muscle stress and intramuscular pressure during dynamic muscle contractions. <i>Muscle and Nerve</i> , 2007 , 36, 313-9	3.4	21
18	Parvalbumin isoforms differentially accelerate cardiac myocyte relaxation kinetics in an animal model of diastolic dysfunction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 293, H1705-13	5.2	20
17	Diastolic dysfunction and thin filament dysregulation resulting from excitation-contraction uncoupling in a mouse model of restrictive cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 53, 446-57	5.8	19
16	Infarct Collagen Topography Regulates Fibroblast Fate via p38-Yes-Associated Protein Transcriptional Enhanced Associate Domain Signals. <i>Circulation Research</i> , 2020 , 127, 1306-1322	15.7	17
15	Regulators of cardiac fibroblast cell state. <i>Matrix Biology</i> , 2020 , 91-92, 117-135	11.4	15
14	Mechanoregulation of Myofibroblast Fate and Cardiac Fibrosis. <i>Advanced Biology</i> , 2018 , 2, 1700172	3.5	13
13	A Rainbow Reporter Tracks Single Cells and Reveals Heterogeneous Cellular Dynamics among Pluripotent Stem Cells and Their Differentiated Derivatives. <i>Stem Cell Reports</i> , 2020 , 15, 226-241	8	9
12	Enteroendocrine cell expression of a cholecystokinin gene construct in transgenic mice and cultured cells. <i>American Journal of Physiology - Renal Physiology</i> , 2005 , 288, G354-61	5.1	9
11	Combinatorial effects of double cardiomyopathy mutant alleles in rodent myocytes: a predictive cellular model of myofilament dysregulation in disease. <i>PLoS ONE</i> , 2010 , 5, e9140	3.7	9
10	Apoptosis repressor with a CARD domain (ARC) restrains Bax-mediated pathogenesis in dystrophic skeletal muscle. <i>PLoS ONE</i> , 2013 , 8, e82053	3.7	9

9	Controlling cardiac fibrosis through fibroblast state space modulation. <i>Cellular Signalling</i> , 2021 , 79, 109888	14.9	8
8	Engineering Heart Morphogenesis. <i>Trends in Biotechnology</i> , 2020 , 38, 835-845	15.1	7
7	Modulating the tension-time integral of the cardiac twitch prevents dilated cardiomyopathy in murine hearts. <i>JCI Insight</i> , 2020 , 5,	9.9	5
6	<i>Nocardia farcinica</i> Meningitis Masquerading as Central Nervous System Metastasis in a Child With Cerebellar Pilocytic Astrocytoma. <i>Journal of Pediatric Hematology/Oncology</i> , 2015 , 37, 482-5	1.2	4
5	Genetic engineering and therapy for inherited and acquired cardiomyopathies. <i>Annals of the New York Academy of Sciences</i> , 2006 , 1080, 437-50	6.5	4
4	Engrafted Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes Undergo Clonal Expansion In Vivo. <i>Circulation</i> , 2021 , 143, 1635-1638	16.7	4
3	The effect of variable troponin C mutation thin filament incorporation on cardiac muscle twitch contractions. <i>Journal of Molecular and Cellular Cardiology</i> , 2021 , 155, 112-124	5.8	2
2	MBNL1 drives dynamic transitions between fibroblasts and myofibroblasts in cardiac wound healing.. <i>Cell Stem Cell</i> , 2022 ,	18	2
1	Spatial presentation of biological molecules to cells by localized diffusive transfer. <i>Lab on A Chip</i> , 2019 , 19, 2114-2126	7.2	1