

Carolyn A Carr

List of Publications by Year in descending order

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62
papers

2,712
citations

201385

27
h-index

189595

50
g-index

64
all docs

64
docs citations

64
times ranked

4614
citing authors

#	ARTICLE	IF	CITATIONS
1	Cardiac lymphatics are heterogeneous in origin and respond to injury. <i>Nature</i> , 2015, 522, 62-67.	13.7	387
2	The cardiac lymphatic system stimulates resolution of inflammation following myocardial infarction. <i>Journal of Clinical Investigation</i> , 2018, 128, 3402-3412.	3.9	180
3	Cardiac ferroportin regulates cellular iron homeostasis and is important for cardiac function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3164-3169.	3.3	173
4	FRET biosensor uncovers cAMP nano-domains at β^2 -adrenergic targets that dictate precise tuning of cardiac contractility. <i>Nature Communications</i> , 2017, 8, 15031.	5.8	166
5	Iron Particles for Noninvasive Monitoring of Bone Marrow Stromal Cell Engraftment into, and Isolation of Viable Engrafted Donor Cells from, the Heart. <i>Stem Cells</i> , 2006, 24, 1968-1975.	1.4	123
6	Efficient Differentiation of Human Induced Pluripotent Stem Cells Generates Cardiac Cells That Provide Protection Following Myocardial Infarction in the Rat. <i>Stem Cells and Development</i> , 2012, 21, 977-986.	1.1	91
7	Increasing Pyruvate Dehydrogenase Flux as a Treatment for Diabetic Cardiomyopathy: A Combined ^{13}C Hyperpolarized Magnetic Resonance and Echocardiography Study. <i>Diabetes</i> , 2015, 64, 2735-2743.	0.3	88
8	Identification of valid housekeeping genes for quantitative RT-PCR analysis of cardiosphere-derived cells preconditioned under hypoxia or with prolyl-4-hydroxylase inhibitors. <i>Molecular Biology Reports</i> , 2012, 39, 4857-4867.	1.0	78
9	Bone marrow-derived stromal cells home to and remain in the infarcted rat heart but fail to improve function: an in vivo cine-MRI study. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 295, H533-H542.	1.5	76
10	Magnetic Resonance Imaging Evaluation of Remodeling by Cardiac Elastomeric Tissue Scaffold Biomaterials in a Rat Model of Myocardial Infarction. <i>Tissue Engineering - Part A</i> , 2010, 16, 3395-3402.	1.6	73
11	Cardiosphere-Derived Cells Improve Function in the Infarcted Rat Heart for at Least 16 Weeks â€” an MRI Study. <i>PLoS ONE</i> , 2011, 6, e25669.	1.1	70
12	Noninvasive Immunometabolic Cardiac Inflammation Imaging Using Hyperpolarized Magnetic Resonance. <i>Circulation Research</i> , 2018, 122, 1084-1093.	2.0	64
13	Intracellular iron deficiency in pulmonary arterial smooth muscle cells induces pulmonary arterial hypertension in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13122-13130.	3.3	63
14	In vivo MRI Characterization of Progressive Cardiac Dysfunction in the mdx Mouse Model of Muscular Dystrophy. <i>PLoS ONE</i> , 2012, 7, e28569.	1.1	61
15	Cine-MRI versus two-dimensional echocardiography to measure <i>in vivo</i> left ventricular function in rat heart. <i>NMR in Biomedicine</i> , 2008, 21, 765-772.	1.6	56
16	Impaired In Vivo Mitochondrial Krebs Cycle Activity After Myocardial Infarction Assessed Using Hyperpolarized Magnetic Resonance Spectroscopy. <i>Circulation: Cardiovascular Imaging</i> , 2014, 7, 895-904.	1.3	54
17	On the pivotal role of PPAR α in adaptation of the heart to hypoxia and why fat in the diet increases hypoxic injury. <i>FASEB Journal</i> , 2016, 30, 2684-2697.	0.2	54
18	Inhibition of sarcolemmal FAT/CD36 by sulfo-N-succinimidyl oleate rapidly corrects metabolism and restores function in the diabetic heart following hypoxia/reoxygenation. <i>Cardiovascular Research</i> , 2017, 113, 737-748.	1.8	50

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19	Hyperpolarized [1,4- ¹³ C]Fumarate Enables Magnetic Resonance-Based Imaging of Myocardial Necrosis. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 1594-1606.	2.3	46
20	In Vivo Tracking and ¹ H/ ¹⁹ F Magnetic Resonance Imaging of Biodegradable Polyhydroxyalkanoate/Polycaprolactone Blend Scaffolds Seeded with Labeled Cardiac Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 25056-25068.	4.0	44
21	Prevention of exercised induced cardiomyopathy following Pip-PMO treatment in dystrophic mdx mice. <i>Scientific Reports</i> , 2015, 5, 8986.	1.6	43
22	Metabolic imaging of acute and chronic infarction in the perfused rat heart using hyperpolarised [¹³ C]pyruvate. <i>NMR in Biomedicine</i> , 2013, 26, 1441-1450.	1.6	40
23	In vivo assessment of cardiac metabolism and function in the abdominal aortic banding model of compensated cardiac hypertrophy. <i>Cardiovascular Research</i> , 2015, 106, 249-260.	1.8	40
24	Increased oxidative metabolism following hypoxia in the type 2 diabetic heart, despite normal hypoxia signalling and metabolic adaptation. <i>Journal of Physiology</i> , 2016, 594, 307-320.	1.3	40
25	iASPP, a previously unidentified regulator of desmosomes, prevents arrhythmogenic right ventricular cardiomyopathy (ARVC)-induced sudden death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E973-E981.	3.3	37
26	Ambiguity in the Presentation of Decellularized Tissue Composition: The Need for Standardized Approaches. <i>Artificial Organs</i> , 2017, 41, 778-784.	1.0	34
27	Changing Metabolism in Differentiating Cardiac Progenitor Cells—Can Stem Cells Become Metabolically Flexible Cardiomyocytes?. <i>Frontiers in Cardiovascular Medicine</i> , 2018, 5, 119.	1.1	34
28	Acetoacetate is a more efficient energy-yielding substrate for human mesenchymal stem cells than glucose and generates fewer reactive oxygen species. <i>International Journal of Biochemistry and Cell Biology</i> , 2017, 88, 75-83.	1.2	29
29	Preconditioning of Cardiosphere-Derived Cells with Hypoxia or Prolyl-4-Hydroxylase Inhibitors Increases Stemness and Decreases Reliance on Oxidative Metabolism. <i>Cell Transplantation</i> , 2016, 25, 35-53.	1.2	28
30	Bio-mechanical Properties of Novel Bi-layer Collagen-Elastin Scaffolds for Heart Valve Tissue Engineering. <i>Procedia Engineering</i> , 2013, 59, 247-254.	1.2	27
31	Investigating Mitochondrial Metabolism in Contracting HL-1 Cardiomyocytes Following Hypoxia and Pharmacological HIF Activation Identifies HIF-Dependent and Independent Mechanisms of Regulation. <i>Journal of Cardiovascular Pharmacology and Therapeutics</i> , 2014, 19, 574-585.	1.0	27
32	Murine Cardiosphere-Derived Cells Are Impaired by Age but Not by Cardiac Dystrophic Dysfunction. <i>Stem Cells and Development</i> , 2014, 23, 1027-1036.	1.1	25
33	Stem Cell Therapy for the Heart: Blind Alley or Magic Bullet?. <i>Journal of Cardiovascular Translational Research</i> , 2016, 9, 405-418.	1.1	24
34	β ₂ -Adrenergic Receptor Stimulation and Alternans in the Border Zone of a Healed Infarct: An ex vivo Study and Computational Investigation of Arrhythmogenesis. <i>Frontiers in Physiology</i> , 2019, 10, 350.	1.3	24
35	Physiological and pharmacological stimulation for in vitro maturation of substrate metabolism in human induced pluripotent stem cell-derived cardiomyocytes. <i>Scientific Reports</i> , 2021, 11, 7802.	1.6	21
36	Collagen type I and hyaluronic acid based hybrid scaffolds for heart valve tissue engineering. <i>Biopolymers</i> , 2019, 110, e23278.	1.2	19

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37	Human Cardiosphere-Derived Cells from Patients with Chronic Ischaemic Heart Disease Can Be Routinely Expanded from Atrial but Not Epicardial Ventricular Biopsies. <i>Journal of Cardiovascular Translational Research</i> , 2012, 5, 678-687.	1.1	18
38	Activation of HIF1 α Rescues the Hypoxic Response and Reverses Metabolic Dysfunction in the Diabetic Heart. <i>Diabetes</i> , 2021, 70, 2518-2531.	0.3	18
39	Fast, quantitative, murine cardiac 19F MRI/MRS of PFCE-labeled progenitor stem cells and macrophages at 9.4T. <i>PLoS ONE</i> , 2018, 13, e0190558.	1.1	17
40	A Network Pharmacology Study of the Multi-Targeting Profile of an Antiarrhythmic Chinese Medicine Xin Su Ning. <i>Frontiers in Pharmacology</i> , 2019, 10, 1138.	1.6	16
41	Context-dependent regulation of endothelial cell metabolism: differential effects of the PPAR α agonist GW0742 and VEGF-A. <i>Scientific Reports</i> , 2020, 10, 7849.	1.6	14
42	Metabolic flux analyses to assess the differentiation of adult cardiac progenitors after fatty acid supplementation. <i>Stem Cell Research</i> , 2019, 38, 101458.	0.3	13
43	Mechanical and Degradation Properties of Hybrid Scaffolds for Tissue Engineered Heart Valve (TEHV). <i>Journal of Functional Biomaterials</i> , 2021, 12, 20.	1.8	13
44	iRhom2-mediated proinflammatory signalling regulates heart repair following myocardial infarction. <i>JCI Insight</i> , 2018, 3, .	2.3	13
45	First-pass perfusion CMR two days after infarction predicts severity of functional impairment six weeks later in the rat heart. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011, 13, 38.	1.6	12
46	Implications for Cardiac Function Following Rescue of the Dystrophic Diaphragm in a Mouse Model of Duchenne Muscular Dystrophy. <i>Scientific Reports</i> , 2015, 5, 11632.	1.6	12
47	Isolation and Expansion of Cardiosphere-Derived Stem Cells. <i>Current Protocols in Stem Cell Biology</i> , 2011, 16, 2C.3.1.	3.0	12
48	The von Hippel-Lindau Chuvash mutation in mice alters cardiac substrate and high-energy phosphate metabolism. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 311, H759-H767.	1.5	11
49	Improved cellular uptake of perfluorocarbon nanoparticles for in vivo murine cardiac 19F MRS/MRI and temporal tracking of progenitor cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 18, 391-401.	1.7	9
50	Chronic High-Fat Feeding Affects the Mesenchymal Cell Population Expanded From Adipose Tissue but Not Cardiac Atria. <i>Stem Cells Translational Medicine</i> , 2015, 4, 1403-1414.	1.6	8
51	Cardiac regeneration following myocardial infarction: the need for regeneration and a review of cardiac stromal cell populations used for transplantation. <i>Biochemical Society Transactions</i> , 2022, , .	1.6	8
52	Trilayer scaffold with cardiosphere-derived cells for heart valve tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 729-737.	1.6	7
53	Acute intermittent hypoxia drives hepatic de novo lipogenesis in humans and rodents. <i>Metabolism Open</i> , 2022, 14, 100177.	1.4	6
54	Metabolic maturation of differentiating cardiosphere-derived cells. <i>Stem Cell Research</i> , 2021, 54, 102422.	0.3	5

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55	Investigation of the Cellular Pharmacological Mechanism and Clinical Evidence of the Multi-Herbal Antiarrhythmic Chinese Medicine Xin Su Ning. <i>Frontiers in Pharmacology</i> , 2020, 11, 600.	1.6	4
56	Alkaline nucleoplasm facilitates contractile gene expression in the mammalian heart. <i>Basic Research in Cardiology</i> , 2022, 117, 17.	2.5	3
57	Acidic environments trigger intracellular H ⁺ -sensing FAK proteins to re-balance sarcolemmal acid-base transporters and auto-regulate cardiomyocyte pH. <i>Cardiovascular Research</i> , 2022, 118, 2946-2959.	1.8	2
58	3D functional scaffolds for cardiovascular tissue engineering. , 2018, , 305-343.		1
59	Varying degrees of ventricular unloading in the heterotopic rat heart transplant model demonstrated by magnetic resonance imaging. <i>International Journal of Biomedical Science</i> , 2014, 10, 223-8.	0.5	1
60	Uterine cells an immunoprivileged cell source for therapy but are they for everyone?. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 85, 127-130.	0.9	0
61	Hyperpolarized magnetic resonance imaging of cardiac inflammation and repair. <i>Heart</i> , 2017, 103, A151.1-A151.	1.2	0
62	Cardiac energy metabolism increases with ketone oxidation. , 2018, , .		0