

Joshua D Hutcheson

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

2,189
citations

304368

22
h-index

276539

41
g-index

44
all docs

44
docs citations

44
times ranked

2943
citing authors

#	ARTICLE	IF	CITATIONS
1	Genesis and growth of extracellular-vesicle-derived microcalcification in atherosclerotic plaques. <i>Nature Materials</i> , 2016, 15, 335-343.	13.3	298
2	Adventitial MSC-like Cells Are Progenitors of Vascular Smooth Muscle Cells and Drive Vascular Calcification in Chronic Kidney Disease. <i>Cell Stem Cell</i> , 2016, 19, 628-642.	5.2	254
3	Sortilin mediates vascular calcification via its recruitment into extracellular vesicles. <i>Journal of Clinical Investigation</i> , 2016, 126, 1323-1336.	3.9	196
4	Valvular interstitial cells suppress calcification of valvular endothelial cells. <i>Atherosclerosis</i> , 2015, 242, 251-260.	0.4	135
5	Potential drug targets for calcific aortic valve disease. <i>Nature Reviews Cardiology</i> , 2014, 11, 218-231.	6.1	123
6	Small entities with large impact. <i>Current Opinion in Lipidology</i> , 2014, 25, 327-332.	1.2	117
7	Extracellular Vesicles As Mediators of Cardiovascular Calcification. <i>Frontiers in Cardiovascular Medicine</i> , 2017, 4, 78.	1.1	103
8	A single injection of gain-of-function mutant PCSK9 adeno-associated virus vector induces cardiovascular calcification in mice with no genetic modification. <i>Atherosclerosis</i> , 2016, 251, 109-118.	0.4	92
9	Extracellular vesicles in cardiovascular calcification: expanding current paradigms. <i>Journal of Physiology</i> , 2016, 594, 2895-2903.	1.3	88
10	Dynamin-Related Protein 1 Inhibition Attenuates Cardiovascular Calcification in the Presence of Oxidative Stress. <i>Circulation Research</i> , 2017, 121, 220-233.	2.0	88
11	Simulation of early calcific aortic valve disease in a 3D platform: A role for myofibroblast differentiation. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 94, 13-20.	0.9	70
12	Cardiovascular calcification: current controversies and novel concepts. <i>Cardiovascular Pathology</i> , 2015, 24, 207-212.	0.7	69
13	Discoidin Domain Receptor-1 Regulates Calcific Extracellular Vesicle Release in Vascular Smooth Muscle Cell Fibrocalcific Response via Transforming Growth Factor- β Signaling. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 525-533.	1.1	58
14	Giving Calcification Its Due: Recognition of a Diverse Disease. <i>Circulation Research</i> , 2017, 120, 270-273.	2.0	52
15	Serum Sortilin Associates With Aortic Calcification and Cardiovascular Risk in Men. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 1005-1011.	1.1	44
16	Enrichment of calcifying extracellular vesicles using density-based ultracentrifugation protocol. <i>Journal of Extracellular Vesicles</i> , 2014, 3, 25129.	5.5	39
17	Extracellular vesicles in cardiovascular homeostasis and disease. <i>Current Opinion in Cardiology</i> , 2018, 33, 290-297.	0.8	39
18	Revisiting cardiovascular calcification: A multifaceted disease requiring a multidisciplinary approach. <i>Seminars in Cell and Developmental Biology</i> , 2015, 46, 68-77.	2.3	37

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19	Zooming in on the genesis of atherosclerotic plaque microcalcifications. <i>Journal of Physiology</i> , 2016, 594, 2915-2927.	1.3	36
20	Synthetic photoplethysmography (PPG) of the radial artery through parallelized Monte Carlo and its correlation to body mass index (BMI). <i>Scientific Reports</i> , 2021, 11, 2570.	1.6	33
21	ApoC-III is a novel inducer of calcification in human aortic valves. <i>Journal of Biological Chemistry</i> , 2021, 296, 100193.	1.6	28
22	Uricase Based Enzymatic Biosensor for Non-invasive Detection of Uric Acid by Entrapment in PVA-SbQ Polymer Matrix. <i>Electroanalysis</i> , 2018, 30, 2374-2385.	1.5	25
23	Calcification of Vascular Smooth Muscle Cells and Imaging of Aortic Calcification and Inflammation. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	19
24	Oxidative DNA Damage Modulates DNA Methylation Pattern in Human Breast Cancer 1 (BRCA1) Gene via the Crosstalk between DNA Polymerase β and a de novo DNA Methyltransferase. <i>Cells</i> , 2020, 9, 225.	1.8	18
25	Dissecting Calcific Aortic Valve Disease—The Role, Etiology, and Drivers of Valvular Fibrosis. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 660797.	1.1	18
26	Dynamain-related protein 1 inhibition reduces hepatic PCSK9 secretion. <i>Cardiovascular Research</i> , 2021, 117, 2340-2353.	1.8	16
27	Integrative Multi-Omics Analysis in Calcific Aortic Valve Disease Reveals a Link to the Formation of Amyloid-Like Deposits. <i>Cells</i> , 2020, 9, 2164.	1.8	15
28	Quantification of Calcified Particles in Human Valve Tissue Reveals Asymmetry of Calcific Aortic Valve Disease Development. <i>Frontiers in Cardiovascular Medicine</i> , 2016, 3, 44.	1.1	11
29	Scanning Ion Conductance Microscopy Study Reveals the Disruption of the Integrity of the Human Cell Membrane Structure by Oxidative DNA Damage. <i>ACS Applied Bio Materials</i> , 2021, 4, 1632-1639.	2.3	11
30	Nanoanalytical analysis of bisphosphonate-driven alterations of microcalcifications using a 3D hydrogel system and in vivo mouse model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	9
31	Oscillatory fluid-induced mechanobiology in heart valves with parallels to the vasculature. <i>Vascular Biology (Bristol, England)</i> , 2020, 2, R59-R71.	1.2	9
32	Toxicity assessment of wearable wound sensor constituents on keratinocytes. <i>Toxicology in Vitro</i> , 2019, 58, 170-177.	1.1	8
33	Highly Selective PPAR α (Peroxisome Proliferator-Activated Receptor α) Agonist Pemafibrate Inhibits Stent Inflammation and Restenosis Assessed by Multimodality Molecular-Microstructural Imaging. <i>Journal of the American Heart Association</i> , 2021, 10, e020834.	1.6	7
34	Elastin-Dependent Aortic Heart Valve Leaflet Curvature Changes During Cyclic Flexure. <i>Bioengineering</i> , 2019, 6, 39.	1.6	6
35	A Method to Quantify Tensile Biaxial Properties of Mouse Aortic Valve Leaflets. <i>Journal of Biomechanical Engineering</i> , 2020, 142, .	0.6	5
36	Elastogenesis Correlates With Pigment Production in Murine Aortic Valve Leaflets. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 678401.	1.1	4

#	ARTICLE	IF	CITATIONS
37	The Time-Dependent Role of Bisphosphonates on Atherosclerotic Plaque Calcification. <i>Journal of Cardiovascular Development and Disease</i> , 2022, 9, 168.	0.8	3
38	International Society for Extracellular Vesicles: Second Annual Meeting, 17â€“20 April 2013, Boston, MA (ISEV 2013). <i>Journal of Extracellular Vesicles</i> , 2013, 2, 23070.	5.5	2
39	After 50 Years of Heart Transplants: What Does the Next 50 Years Hold for Cardiovascular Medicine? A Perspective From the International Society for Applied Cardiovascular Biology. <i>Frontiers in Cardiovascular Medicine</i> , 2019, 6, 8.	1.1	1
40	A surface-based calibration approach to enable dynamic and accurate quantification of colorimetric assay systems. <i>Analytical Methods</i> , 2021, 13, 4290-4297.	1.3	1
41	Pigmentation Affects Elastic Fiber Patterning and Biomechanical Behavior of the Murine Aortic Valve. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 754560.	1.1	1
42	Editorial: Extracellular Matrix for Cardiovascular Reconstruction. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 664803.	1.1	0