

William J Kowalski

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

485
citations

840776

11
h-index

713466

21
g-index

28
all docs

28
docs citations

28
times ranked

642
citing authors

#	ARTICLE	IF	CITATIONS
1	The myocardial regenerative potential of three-dimensional engineered cardiac tissues composed of multiple human iPS cell-derived cardiovascular cell lineages. <i>Scientific Reports</i> , 2016, 6, 29933.	3.3	95
2	Impact of Cell Composition and Geometry on Human Induced Pluripotent Stem Cells-Derived Engineered Cardiac Tissue. <i>Scientific Reports</i> , 2017, 7, 45641.	3.3	61
3	Critical Transitions in Early Embryonic Aortic Arch Patterning and Hemodynamics. <i>PLoS ONE</i> , 2013, 8, e60271.	2.5	43
4	Investigating developmental cardiovascular biomechanics and the origins of congenital heart defects. <i>Frontiers in Physiology</i> , 2014, 5, 408.	2.8	37
5	Growth and hemodynamics after early embryonic aortic arch occlusion. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015, 14, 735-751.	2.8	34
6	Transition from fetal to neonatal circulation: Modeling the effect of umbilical cord clamping. <i>Journal of Biomechanics</i> , 2015, 48, 1662-1670.	2.1	32
7	Left atrial ligation alters intracardiac flow patterns and the biomechanical landscape in the chick embryo. <i>Developmental Dynamics</i> , 2014, 243, 652-662.	1.8	31
8	Analysis of early embryonic great-vessel microcirculation in zebrafish using high-speed confocal $\hat{1}/4$ PIV. <i>Biorheology</i> , 2011, 48, 305-321.	0.4	28
9	Computational hemodynamic optimization predicts dominant aortic arch selection is driven by embryonic outflow tract orientation in the chick embryo. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012, 11, 1057-1073.	2.8	20
10	Chronic optical pacing conditioning of h-iPSC engineered cardiac tissues. <i>Journal of Tissue Engineering</i> , 2019, 10, 204173141984174.	5.5	17
11	Time-resolved OCT- $\hat{1}/4$ PIV: a new microscopic PIV technique for noninvasive depth-resolved pulsatile flow profile acquisition. <i>Experiments in Fluids</i> , 2013, 54, 1.	2.4	13
12	Sympathetic Neurons Regulate Cardiomyocyte Maturation in Culture. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 850645.	3.7	12
13	Quantification of Cardiomyocyte Alignment from Three-Dimensional (3D) Confocal Microscopy of Engineered Tissue. <i>Microscopy and Microanalysis</i> , 2017, 23, 826-842.	0.4	10
14	Heart neurons use clock genes to control myocyte proliferation. <i>Science Advances</i> , 2021, 7, eabh4181.	10.3	10
15	Time-Series Interactions of Gene Expression, Vascular Growth and Hemodynamics during Early Embryonic Arterial Development. <i>PLoS ONE</i> , 2016, 11, e0161611.	2.5	9
16	Asymmetry in Mechanosensitive Gene Expression during Aortic Arch Morphogenesis. <i>Scientific Reports</i> , 2018, 8, 16948.	3.3	9
17	Validating the Paradigm That Biomechanical Forces Regulate Embryonic Cardiovascular Morphogenesis and Are Fundamental in the Etiology of Congenital Heart Disease. <i>Journal of Cardiovascular Development and Disease</i> , 2020, 7, 23.	1.6	7
18	Novel Fenestration Designs for Controlled Venous Flow Shunting in Failing $\langle \text{sc} \rangle \text{F} \langle / \text{sc} \rangle$ ontans With Systemic Venous Hypertension. <i>Artificial Organs</i> , 2013, 37, 66-75.	1.9	6

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19	Simultaneous real-time quantification of blood flow and vascular growth in the chick embryo using optical coherence tomography. , 2014, , .		3
20	Chronic Optogenetic Pacing of Human-Induced Pluripotent Stem Cell-Derived Engineered Cardiac Tissues. Methods in Molecular Biology, 2021, 2191, 151-169.	0.9	3
21	Hemodynamic Flow Visualization of Early Embryonic Great Vessels Using $\hat{1}/4$ PIV. Methods in Molecular Biology, 2015, 1189, 17-30.	0.9	2
22	Ultrahigh-Frequency Echocardiography of Autonomic Devoid Phox2B Homozygous Embryos Does Not Reveal a Significant Cardiac Phenotype before Embryo Death. Ultrasound in Medicine and Biology, 2021, 47, 751-758.	1.5	1
23	Preparation of Mesh-Shaped Engineered Cardiac Tissues Derived from Human iPS Cells for In Vivo Myocardial Repair. Journal of Visualized Experiments, 2020, , .	0.3	1
24	Computational Fluid Dynamics Analysis of Early Embryonic Aortic Arch-Ligation. , 2013, , .		0
25	Transition From the Fetal to Neonatal Circulation: Modeling the Effect of Umbilical Cord Clamping. , 2013, , .		0
26	Progress in the Generation of Multiple Lineage Human-iPSC-Derived 3D-Engineered Cardiac Tissues for Cardiac Repair. , 2020, , 353-361.		0