

Yichen Ding

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,010
citations

430874

18
h-index

454955

30
g-index

36
all docs

36
docs citations

36
times ranked

1337
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-time volumetric reconstruction of biological dynamics with light-field microscopy and deep learning. <i>Nature Methods</i> , 2021, 18, 551-556.	19.0	124
2	Particle Hydrogels Based on Hyaluronic Acid Building Blocks. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 2034-2041.	5.2	112
3	Analysis of cardiomyocyte clonal expansion during mouse heart development and injury. <i>Nature Communications</i> , 2018, 9, 754.	12.8	94
4	Cardiac Light-Sheet Fluorescent Microscopy for Multi-Scale and Rapid Imaging of Architecture and Function. <i>Scientific Reports</i> , 2016, 6, 22489.	3.3	64
5	Endocardially Derived Macrophages Are Essential for Valvular Remodeling. <i>Developmental Cell</i> , 2019, 48, 617-630.e3.	7.0	61
6	Spatial and temporal variations in hemodynamic forces initiate cardiac trabeculation. <i>JCI Insight</i> , 2018, 3, .	5.0	46
7	Inductively powered wireless pacing via a miniature pacemaker and remote stimulation control system. <i>Scientific Reports</i> , 2017, 7, 6180.	3.3	44
8	Light-sheet fluorescence imaging to localize cardiac lineage and protein distribution. <i>Scientific Reports</i> , 2017, 7, 42209.	3.3	41
9	Automated Segmentation of Light-Sheet Fluorescent Imaging to Characterize Experimental Doxorubicin-Induced Cardiac Injury and Repair. <i>Scientific Reports</i> , 2017, 7, 8603.	3.3	39
10	Simplified three-dimensional tissue clearing and incorporation of colorimetric phenotyping. <i>Scientific Reports</i> , 2016, 6, 30736.	3.3	38
11	Subvoxel light-sheet microscopy for high-resolution high-throughput volumetric imaging of large biomedical specimens. <i>Advanced Photonics</i> , 2019, 1, 1.	11.8	37
12	Multiscale light-sheet for rapid imaging of cardiopulmonary system. <i>JCI Insight</i> , 2018, 3, .	5.0	36
13	Contractile and hemodynamic forces coordinate Notch1b-mediated outflow tract valve formation. <i>JCI Insight</i> , 2019, 4, .	5.0	34
14	A Rapid Capillary-Pressure Driven Micro-Channel to Demonstrate Newtonian Fluid Behavior of Zebrafish Blood at High Shear Rates. <i>Scientific Reports</i> , 2017, 7, 1980.	3.3	24
15	Integrating light-sheet imaging with virtual reality to recapitulate developmental cardiac mechanics. <i>JCI Insight</i> , 2017, 2, .	5.0	24
16	Effects of teriparatide on morphology of aortic calcification in aged hyperlipidemic mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 314, H1203-H1213.	3.2	22
17	Advanced microscopy to elucidate cardiovascular injury and regeneration: 4D light-sheet imaging. <i>Progress in Biophysics and Molecular Biology</i> , 2018, 138, 105-115.	2.9	22
18	Light-Sheet Imaging to Elucidate Cardiovascular Injury and Repair. <i>Current Cardiology Reports</i> , 2018, 20, 35.	2.9	21

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19	Ultrafine Particle Exposure Reveals the Importance of FOXO1/Notch Activation Complex for Vascular Regeneration. <i>Antioxidants and Redox Signaling</i> , 2018, 28, 1209-1223.	5.4	16
20	Saak Transform-Based Machine Learning for Light-Sheet Imaging of Cardiac Trabeculation. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 225-235.	4.2	15
21	A hybrid of light-field and light-sheet imaging to study myocardial function and intracardiac blood flow during zebrafish development. <i>PLoS Computational Biology</i> , 2021, 17, e1009175.	3.2	14
22	Displacement analysis of myocardial mechanical deformation (DIAMOND) reveals segmental susceptibility to doxorubicin-induced injury and regeneration. <i>JCI Insight</i> , 2019, 4, .	5.0	13
23	Light-sheet Fluorescence Microscopy for the Study of the Murine Heart. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	12
24	Simulating Developmental Cardiac Morphology in Virtual Reality Using a Deformable Image Registration Approach. <i>Annals of Biomedical Engineering</i> , 2018, 46, 2177-2188.	2.5	12
25	Ultrasonic transducer-guided electrochemical impedance spectroscopy to assess lipid-laden plaques. <i>Sensors and Actuators B: Chemical</i> , 2016, 235, 154-161.	7.8	11
26	Computational simulations of the 4D micro-circulatory network in zebrafish tail amputation and regeneration. <i>Journal of the Royal Society Interface</i> , 2022, 19, 20210898.	3.4	9
27	Three-dimensional Imaging Coupled with Topological Quantification Uncovers Retinal Vascular Plexuses Undergoing Obliteration. <i>Theranostics</i> , 2021, 11, 1162-1175.	10.0	6
28	Deep Neural Network-Aided Histopathological Analysis of Myocardial Injury. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 724183.	2.4	5
29	A Multi-Dimensional Analysis of a Novel Approach for Wireless Stimulation. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 3307-3316.	4.2	3
30	Virtual Reality for Interactive Medical Analysis. <i>Frontiers in Virtual Reality</i> , 2022, 3, .	3.7	3
31	Vascular Injury in the Zebrafish Tail Modulates Blood Flow and Peak Wall Shear Stress to Restore Embryonic Circular Network. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 841101.	2.4	3
32	In Vivo Clonal Analysis of Cardiomyocytes. <i>Methods in Molecular Biology</i> , 2021, 2158, 243-256.	0.9	2
33	Modulations of face perception in response to a novel time-varying optical perturbation after aberration correction using adaptive optics. <i>European Physical Journal: Special Topics</i> , 2022, 231, 713-722.	2.6	2
34	Integrating 4-d light-sheet imaging with interactive virtual reality to recapitulate developmental cardiac mechanics and physiology. , 2018, , .		0