

Michael B Scott

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

517
citations

840776

11
h-index

677142

22
g-index

25
all docs

25
docs citations

25
times ranked

756
citing authors

#	ARTICLE	IF	CITATIONS
1	Fully automated 3D aortic segmentation of 4D flow MRI for hemodynamic analysis using deep learning. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 2204-2218.	3.0	94
2	Stiffness of pancreatic cancer cells is associated with increased invasive potential. <i>Integrative Biology (United Kingdom)</i> , 2016, 8, 1232-1245.	1.3	89
3	The physical origins of transit time measurements for rapid, single cell mechanotyping. <i>Lab on A Chip</i> , 2016, 16, 3330-3339.	6.0	61
4	Association of Regional Wall Shear Stress and Progressive Ascending Aorta Dilatation in Bicuspid Aortic Valve. <i>JACC: Cardiovascular Imaging</i> , 2022, 15, 33-42.	5.3	37
5	Dihydromyricetin Prevents Fetal Alcohol Exposure-Induced Behavioral and Physiological Deficits: The Roles of GABAA Receptors in Adolescence. <i>Neurochemical Research</i> , 2014, 39, 1147-1161.	3.3	35
6	Chest radiograph at admission predicts early intubation among inpatient COVID-19 patients. <i>European Radiology</i> , 2021, 31, 2825-2832.	4.5	27
7	Four-dimensional Virtual Catheter: Noninvasive Assessment of Intra-aortic Hemodynamics in Bicuspid Aortic Valve Disease. <i>Radiology</i> , 2019, 293, 541-550.	7.3	21
8	Interval changes in aortic peak velocity and wall shear stress in patients with bicuspid aortic valve disease. <i>International Journal of Cardiovascular Imaging</i> , 2019, 35, 1925-1934.	1.5	19
9	Highly accelerated aortic 4D flow MRI using compressed sensing: Performance at different acceleration factors in patients with aortic disease. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2174-2187.	3.0	18
10	Investigation of Aortic Wall Thickness, Stiffness and Flow Reversal in Patients With Cryptogenic Stroke: A 4D Flow MRI Study. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 942-952.	3.4	17
11	Impact of age, sex, and global function on normal aortic hemodynamics. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 2088-2102.	3.0	15
12	Differential Contributions of Actin and Myosin to the Physical Phenotypes and Invasion of Pancreatic Cancer Cells. <i>Cellular and Molecular Bioengineering</i> , 2020, 13, 27-44.	2.1	13
13	Segmentation of the Aorta and Pulmonary Arteries Based on 4D Flow MRI in the Pediatric Setting Using Fully Automated Multi-Site, Multi-Vendor, and Multi-Label Dense U-Net. <i>Journal of Magnetic Resonance Imaging</i> , 2022, 55, 1666-1680.	3.4	12
14	Aortic Pulse Wave Velocity Evaluated by 4D Flow MRI Across the Adult Lifespan. <i>Journal of Magnetic Resonance Imaging</i> , 2022, 56, 464-473.	3.4	10
15	Deep learning-based velocity antialiasing of 4D flow MRI. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 449-463.	3.0	9
16	Four-dimensional Flow Magnetic Resonance Imaging Quantification of Blood Flow in Bicuspid Aortic Valve. <i>Journal of Thoracic Imaging</i> , 2020, Publish Ahead of Print, 383-388.	1.5	7
17	Visual analysis of regional myocardial motion anomalies in longitudinal studies. <i>Computers and Graphics</i> , 2019, 83, 62-76.	2.5	6
18	4D flow MRI derived aortic hemodynamics multi-year follow-up in repaired coarctation with bicuspid aortic valve. <i>Diagnostic and Interventional Imaging</i> , 2022, 103, 418-426.	3.2	6

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19	Divergence-Free Constrained Phase Unwrapping and Denoising for 4D Flow MRI Using Weighted Least-Squares. IEEE Transactions on Medical Imaging, 2021, 40, 3389-3399.	8.9	5
20	Cardiac Magnetic Resonance Imaging Feature Tracking Demonstrates Altered Biventricular Strain in Obese Subjects in the Absence of Clinically Apparent Cardiovascular Disease. Journal of Thoracic Imaging, 2022, 37, W1-W2.	1.5	4
21	Global Aortic Pulse Wave Velocity is Unchanged in Bicuspid Aortopathy With Normal Valve Function but Elevated in Patients With Aortic Valve Stenosis: Insights From a <sc>4D</sc> Flow <sc>MRI</sc> Study of 597 Subjects. Journal of Magnetic Resonance Imaging, 2023, 57, 126-136.	3.4	4
22	Valvular regurgitation flow jet assessment using in vitro 4D flow MRI: Implication for mitral regurgitation. Magnetic Resonance in Medicine, 2021, , .	3.0	3
23	Renin Angiotensin System Inhibitors Reduce Aortic Stiffness and Flow Reversal After a Cryptogenic Stroke. Journal of Magnetic Resonance Imaging, 2021, 53, 213-221.	3.4	2
24	Effect of age and sex on fully automated deep learning assessment of left ventricular function, volumes, and contours in cardiac magnetic resonance imaging. International Journal of Cardiovascular Imaging, 2021, 37, 3539-3547.	1.5	2
25	Four-Dimensional Magnetic Resonance After Ross Procedure for Unicuspid Aortic Valve. Circulation: Cardiovascular Imaging, 2021, 14, e011500.	2.6	1