

Matthew A Jolley

List of Publications by Year in descending order

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46
papers

1,035
citations

567281

15
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434195

31
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47
all docs

47
docs citations

47
times ranked

1079
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Annular Modeling of the Unrepaired Complete Atrioventricular Canal Annulus. <i>Annals of Thoracic Surgery</i> , 2022, 113, 654-662.	1.3	4
2	Statistical Shape Analysis of the Tricuspid Valve in Hypoplastic Left Heart Syndrome. <i>Lecture Notes in Computer Science</i> , 2022, 13131, 132-140.	1.3	4
3	A pilot investigation of the tricuspid valve annulus in newborns with hypoplastic left heart syndrome. <i>JTCVS Open</i> , 2022, 10, 324-339.	0.5	3
4	Clinical 3D modeling to guide pediatric cardiothoracic surgery and intervention using 3D printed anatomic models, computer aided design and virtual reality. <i>3D Printing in Medicine</i> , 2022, 8, 11.	3.1	20
5	Visualization and Quantification of the Unrepaired Complete Atrioventricular Canal Valve Using Open-Source Software. <i>Journal of the American Society of Echocardiography</i> , 2022, 35, 985-996.e11.	2.8	1
6	A Computational Framework for Atrioventricular Valve Modeling Using Open-Source Software. <i>Journal of Biomechanical Engineering</i> , 2022, 144, .	1.3	7
7	Modeling Tool for Rapid Virtual Planning of the Intracardiac Baffle in Double-Outlet Right Ventricle. <i>Annals of Thoracic Surgery</i> , 2021, 111, 2078-2083.	1.3	12
8	Open-Source Tool Kit for Interactive Planning of Transcatheter Mitral Valve Replacement Using Multimodality Imaging. <i>Journal of the American Society of Echocardiography</i> , 2021, 34, 917-920.	2.8	2
9	Simulation of Delivery of Clip-Based Therapies Within Multimodality Images to Facilitate Preprocedural Planning. <i>Journal of the American Society of Echocardiography</i> , 2021, 34, 1111-1114.	2.8	3
10	Use of Virtual Reality for Hybrid Closure of Multiple Ventricular Septal Defects. <i>JACC: Case Reports</i> , 2021, 3, 1579-1583.	0.6	6
11	Segmentation of Tricuspid Valve Leaflets From Transthoracic 3D Echocardiograms of Children With Hypoplastic Left Heart Syndrome Using Deep Learning. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 735587.	2.4	12
12	Double-Orifice Left Atrioventricular Valve: The Case for Preoperative Three-Dimensional Echocardiography. <i>Case</i> , 2020, 4, 248-251.	0.3	0
13	Successful integration of a three-dimensional transthoracic echocardiography-derived model with an electroanatomic mapping system to guide catheter ablation of WPW. <i>Journal of Cardiovascular Electrophysiology</i> , 2020, 31, 2770-2773.	1.7	1
14	Simulation of Transcatheter Atrial and Ventricular Septal Defect Device Closure Within Three-Dimensional Echocardiography-Derived Heart Models on Screen and in Virtual Reality. <i>Journal of the American Society of Echocardiography</i> , 2020, 33, 641-644.e2.	2.8	11
15	SlicerVR for Medical Intervention Training and Planning in Immersive Virtual Reality. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2020, 2, 108-117.	3.2	25
16	Three-Dimensional Modeling of Surgically Implanted Stent-Based Valves in the Mitral Position in Children. <i>Annals of Thoracic Surgery</i> , 2020, 110, 670-675.	1.3	6
17	Patient-specific, dynamic models of hypoplastic left heart syndrome tricuspid valves for simulation and planning. , 2020, , .		3
18	Interactive-Automatic Segmentation and Modelling of the Mitral Valve. <i>Lecture Notes in Computer Science</i> , 2019, , 397-404.	1.3	8

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19	Dynamic, patient-specific mitral valve modelling for planning transcatheter repairs. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1227-1235.	2.8	19
20	Early Neurodevelopmental Outcomes in Children Supported with ECMO for Cardiac Indications. Pediatric Cardiology, 2019, 40, 1072-1083.	1.3	24
21	The Application of Virtual Reality for Preoperative Planning of Lymphovenous Anastomosis in a Patient with a Complex Lymphatic Malformation. Journal of Clinical Medicine, 2019, 8, 371.	2.4	13
22	Dynamic Three-Dimensional Geometry of the Tricuspid Valve Annulus in Hypoplastic Left Heart Syndrome with a Fontan Circulation. Journal of the American Society of Echocardiography, 2019, 32, 655-666.e13.	2.8	27
23	Toward predictive modeling of catheter-based pulmonary valve replacement into native right ventricular outflow tracts. Catheterization and Cardiovascular Interventions, 2019, 93, E143-E152.	1.7	18
24	Comparison of 3D Echocardiogram-Derived 3D Printed Valve Models to Molded Models for Simulated Repair of Pediatric Atrioventricular Valves. Pediatric Cardiology, 2018, 39, 538-547.	1.3	66
25	Measuring defibrillator surface potentials: The validation of a predictive defibrillation computer model. Computers in Biology and Medicine, 2018, 102, 402-410.	7.0	5
26	Three-Dimensional Mitral Valve Morphology in Children and Young Adults With Marfan Syndrome. Journal of the American Society of Echocardiography, 2018, 31, 1168-1177.e1.	2.8	7
27	Interaction with Volume-Rendered Three-Dimensional Echocardiographic Images in Virtual Reality. Journal of the American Society of Echocardiography, 2018, 31, 1158-1160.	2.8	16
28	Anesthetic Management of a Tracheoesophageal Fistula in a Patient With a Large Uncorrected Aortopulmonary Window. A & A Case Reports, 2017, 8, 172-174.	0.7	1
29	Three-Dimensional Mitral Valve Morphology and Age-Related Trends in Children and Young Adults with Structurally Normal Hearts Using Transthoracic Echocardiography. Journal of the American Society of Echocardiography, 2017, 30, 561-571.	2.8	22
30	Image Segmentation and Modeling of the Pediatric Tricuspid Valve in Hypoplastic Left Heart Syndrome. Lecture Notes in Computer Science, 2017, 10263, 95-105.	1.3	17
31	Patient-specific pediatric silicone heart valve models based on 3D ultrasound. , 2017, 10135, .		5
32	Fontan Physiology Revisited. Anesthesia and Analgesia, 2015, 121, 172-182.	2.2	146
33	Resting Heart Rate Influences Right Ventricular Volume in Repaired Tetralogy of Fallot. Pediatric Cardiology, 2015, 36, 813-820.	1.3	2
34	Extracorporeal Membrane Oxygenation-Supported Cardiopulmonary Resuscitation Following Stage 1 Palliation for Hypoplastic Left Heart Syndrome*. Pediatric Critical Care Medicine, 2014, 15, 538-545.	0.5	34
35	Extracorporeal membrane oxygenation in patients undergoing superior cavopulmonary anastomosis. Journal of Thoracic and Cardiovascular Surgery, 2014, 148, 1512-1518.	0.8	61
36	Finite element modeling of subcutaneous implantable defibrillator electrodes in an adult torso. Heart Rhythm, 2010, 7, 692-698.	0.7	41

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37	Predictive modeling of defibrillation using hexahedral and tetrahedral finite element models: recent advances. <i>Journal of Electrocardiology</i> , 2008, 41, 483-486.	0.9	8
38	A computer modeling tool for comparing novel ICD electrode orientations in children and adults. <i>Heart Rhythm</i> , 2008, 5, 565-572.	0.7	67
39	Evaluation of different meshing algorithms in the computation of defibrillation thresholds in children. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 1422-5.	0.5	8
40	A System for Image Based Finite Element Modeling of Novel Defibrillation Strategies. , 2007, , .		0
41	Open-Source Environment for Interactive Finite Element Modeling of Optimal ICD Electrode Placement. <i>Lecture Notes in Computer Science</i> , 2007, , 373-382.	1.3	2
42	Image Based Modeling of Defibrillation in Children. , 2006, 2006, 2564-7.		2
43	Image Based Modeling of Defibrillation in Children. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006, , .	0.5	0
44	Failure of autologous bone-assisted cranioplasty following decompressive craniectomy in children and adolescents. <i>Journal of Neurosurgery: Pediatrics</i> , 2004, 100, 163-168.	1.3	168
45	Frequency-dependent changes in cerebral blood flow and evoked potentials during somatosensory stimulation in the rat. <i>Brain Research</i> , 1999, 837, 221-228.	2.2	112
46	Suppression of somatosensory evoked potentials by nitric oxide synthase inhibition in rats: methodological differences. <i>Neuroscience Letters</i> , 1998, 245, 171-174.	2.1	16