

Andrew M Taylor

List of Publications by Year in descending order

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125
papers

7,885
citations

43973

48
h-index

51492

86
g-index

130
all docs

130
docs citations

130
times ranked

6290
citing authors

#	ARTICLE	IF	CITATIONS
1	Equilibrium Contrast Cardiovascular Magnetic Resonance for the Measurement of Diffuse Myocardial Fibrosis. <i>Circulation</i> , 2010, 122, 138-144.	1.6	793
2	Percutaneous Pulmonary Valve Implantation. <i>Circulation</i> , 2008, 117, 1964-1972.	1.6	436
3	Systematic Review and Meta-analysis of Circulatory Disease from Exposure to Low-Level Ionizing Radiation and Estimates of Potential Population Mortality Risks. <i>Environmental Health Perspectives</i> , 2012, 120, 1503-1511.	2.8	296
4	Cardiovascular magnetic resonance measurement of myocardial extracellular volume in health and disease. <i>Heart</i> , 2012, 98, 1436-1441.	1.2	276
5	Multimodality Imaging Guidelines for Patients with Repaired Tetralogy of Fallot: A Report from the American Society of Echocardiography. <i>Journal of the American Society of Echocardiography</i> , 2014, 27, 111-141.	1.2	264
6	Post-mortem MRI versus conventional autopsy in fetuses and children: a prospective validation study. <i>Lancet, The</i> , 2013, 382, 223-233.	6.3	249
7	Percutaneous Pulmonary Valve Implantation Based on Rapid Prototyping of Right Ventricular Outflow Tract and Pulmonary Trunk from MR Data. <i>Radiology</i> , 2007, 242, 490-497.	3.6	214
8	MR navigator-echo monitoring of temporal changes in diaphragm position: Implications for MR coronary angiography. <i>Journal of Magnetic Resonance Imaging</i> , 1997, 7, 629-636.	1.9	189
9	Risk Stratification, Systematic Classification, and Anticipatory Management Strategies for Stent Fracture After Percutaneous Pulmonary Valve Implantation. <i>Circulation</i> , 2007, 115, 1392-1397.	1.6	183
10	3D-manufactured patient-specific models of congenital heart defects for communication in clinical practice: feasibility and acceptability. <i>BMJ Open</i> , 2015, 5, e007165-e007165.	0.8	176
11	Variations in Right Ventricular Outflow Tract Morphology Following Repair of Congenital Heart Disease: Implications for Percutaneous Pulmonary Valve Implantation. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2007, 9, 687-695.	1.6	173
12	Diffuse myocardial fibrosis in severe aortic stenosis: an equilibrium contrast cardiovascular magnetic resonance study. <i>European Heart Journal Cardiovascular Imaging</i> , 2012, 13, 819-826.	0.5	161
13	Cardiac anatomy revisited. <i>Journal of Anatomy</i> , 2004, 205, 159-177.	0.9	156
14	Physiological and Clinical Consequences of Relief of Right Ventricular Outflow Tract Obstruction Late After Repair of Congenital Heart Defects. <i>Circulation</i> , 2006, 113, 2037-2044.	1.6	144
15	Detection of pericardial inflammation with late-enhancement cardiac magnetic resonance imaging: initial results. <i>European Radiology</i> , 2006, 16, 569-574.	2.3	133
16	Post-mortem examination of human fetuses: a comparison of whole-body high-field MRI at 9.4 T with conventional MRI and invasive autopsy. <i>Lancet, The</i> , 2009, 374, 467-475.	6.3	130
17	Rapid prototyping compliant arterial phantoms for in-vitro studies and device testing. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, 2.	1.6	130
18	The Role of Cardiovascular Magnetic Resonance in Pediatric Congenital Heart Disease. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011, 13, 51.	1.6	127

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19	Early Versus Late Functional Outcome After Successful Percutaneous Pulmonary Valve Implantation. <i>Journal of the American College of Cardiology</i> , 2011, 57, 724-731.	1.2	120
20	First-in-man implantation of a novel percutaneous valve: a new approach to medical device development. <i>EuroIntervention</i> , 2010, 5, 745-750.	1.4	117
21	Pre-stenting with a bare metal stent before percutaneous pulmonary valve implantation: acute and 1-year outcomes. <i>Heart</i> , 2011, 97, 118-123.	1.2	109
22	Percutaneous pulmonary valve-in-valve implantation: a successful treatment concept for early device failure. <i>European Heart Journal</i> , 2008, 29, 810-815.	1.0	96
23	Improvement in left ventricular filling properties after relief of right ventricle to pulmonary artery conduit obstruction: contribution of septal motion and interventricular mechanical delay. <i>European Heart Journal</i> , 2009, 30, 2266-2274.	1.0	95
24	Piloting the Use of Patient-Specific Cardiac Models as a Novel Tool to Facilitate Communication During Clinical Consultations. <i>Pediatric Cardiology</i> , 2017, 38, 813-818.	0.6	88
25	Use of 3D models of congenital heart disease as an education tool for cardiac nurses. <i>Congenital Heart Disease</i> , 2017, 12, 113-118.	0.0	82
26	Patient specific finite element analysis results in more accurate prediction of stent fractures: Application to percutaneous pulmonary valve implantation. <i>Journal of Biomechanics</i> , 2010, 43, 687-693.	0.9	79
27	Post mortem magnetic resonance imaging in the fetus, infant and child: A comparative study with conventional autopsy (MaRIAS Protocol). <i>BMC Pediatrics</i> , 2011, 11, 120.	0.7	78
28	Diagnostic accuracy of post-mortem magnetic resonance imaging in fetuses, children and adults: A systematic review. <i>European Journal of Radiology</i> , 2010, 75, e142-e148.	1.2	75
29	Differences between normal subjects and patients with coronary artery disease for three different MR coronary angiography respiratory suppression techniques. <i>Journal of Magnetic Resonance Imaging</i> , 1999, 9, 786-793.	1.9	66
30	Diffuse myocardial fibrosis in the systemic right ventricle of patients late after Mustard or Senning surgery: an equilibrium contrast cardiovascular magnetic resonance study. <i>European Heart Journal Cardiovascular Imaging</i> , 2013, 14, 963-968.	0.5	65
31	A statistical shape modelling framework to extract 3D shape biomarkers from medical imaging data: assessing arch morphology of repaired coarctation of the aorta. <i>BMC Medical Imaging</i> , 2016, 16, 40.	1.4	65
32	Finite Element Analysis of Stent Deployment: Understanding Stent Fracture in Percutaneous Pulmonary Valve Implantation. <i>Journal of Interventional Cardiology</i> , 2007, 20, 546-554.	0.5	62
33	Pulmonary regurgitation: The effects of varying pulmonary artery compliance, and of increased resistance proximal or distal to the compliance. <i>International Journal of Cardiology</i> , 2009, 133, 157-166.	0.8	62
34	Four-dimensional computed tomography: a method of assessing right ventricular outflow tract and pulmonary artery deformations throughout the cardiac cycle. <i>European Radiology</i> , 2011, 21, 36-45.	2.3	62
35	Transcatheter Right Ventricular Outflow Tract Intervention. <i>Circulation</i> , 2006, 113, e934-5.	1.6	61
36	How successful is successful? Aortic arch shape after successful aortic coarctation repair correlates with left ventricular function. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2017, 153, 418-427.	0.4	61

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37	Effect of Altering Pathologic Right Ventricular Loading Conditions by Percutaneous Pulmonary Valve Implantation on Exercise Capacity. <i>American Journal of Cardiology</i> , 2010, 105, 721-726.	0.7	58
38	Comparison of Bare Metal Stenting and Percutaneous Pulmonary Valve Implantation for Treatment of Right Ventricular Outflow Tract Obstruction. <i>Circulation</i> , 2009, 119, 2995-3001.	1.6	56
39	Diagnostic accuracy of post-mortem MRI for thoracic abnormalities in fetuses and children. <i>European Radiology</i> , 2014, 24, 2876-2884.	2.3	56
40	Three-dimensional magnetic resonance imaging of congenital cardiac anomalies. <i>Cardiology in the Young</i> , 2003, 13, 461-465.	0.4	55
41	Comparison of diagnostic performance for perinatal and paediatric post-mortem imaging: CT versus MRI. <i>European Radiology</i> , 2016, 26, 2327-2336.	2.3	55
42	Computational modelling for congenital heart disease: how far are we from clinical translation?. <i>Heart</i> , 2017, 103, 98-103.	1.2	55
43	Current approaches to pulmonary regurgitation. <i>European Journal of Cardio-thoracic Surgery</i> , 2008, 34, 576-581.	0.6	54
44	Fractal branching quantifies vascular changes and predicts survival in pulmonary hypertension: a proof of principle study. <i>Heart</i> , 2011, 97, 1245-1249.	1.2	52
45	Postmortem Cardiovascular Magnetic Resonance Imaging in Fetuses and Children. <i>Circulation</i> , 2014, 129, 1937-1944.	1.6	52
46	Patient-specific reconstructed anatomies and computer simulations are fundamental for selecting medical device treatment: application to a new percutaneous pulmonary valve. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 3027-3038.	1.6	51
47	Percutaneous pulmonary valve implantation: an update. <i>Expert Review of Cardiovascular Therapy</i> , 2009, 7, 823-833.	0.6	50
48	Cardiac imaging: MR or CT? Which to use when. <i>Pediatric Radiology</i> , 2008, 38, 433-438.	1.1	49
49	Introduction to cardiac imaging in infants and children: Techniques, potential, and role in the imaging work-up of various cardiac malformations and other pediatric heart conditions. <i>European Journal of Radiology</i> , 2008, 68, 191-198.	1.2	48
50	Diagnostic performance and reference values of novel biomarkers of paediatric heart failure. <i>Heart</i> , 2016, 102, 1633-1639.	1.2	48
51	Impact of reduction in right ventricular pressure and/or volume overload by percutaneous pulmonary valve implantation on biventricular response to exercise: an exercise stress real-time CMR study. <i>European Heart Journal</i> , 2012, 33, 2434-2441.	1.0	45
52	Diagnostic accuracy of post mortem MRI for abdominal abnormalities in foetuses and children. <i>European Journal of Radiology</i> , 2015, 84, 474-481.	1.2	45
53	Imaging for Preintervention Planning. <i>Circulation: Cardiovascular Imaging</i> , 2014, 7, 182-189.	1.3	43
54	Normal perinatal and paediatric postmortem magnetic resonance imaging appearances. <i>Pediatric Radiology</i> , 2015, 45, 527-535.	1.1	43

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55	Using 4D Cardiovascular Magnetic Resonance Imaging to Validate Computational Fluid Dynamics: A Case Study. <i>Frontiers in Pediatrics</i> , 2015, 3, 107.	0.9	42
56	Indications, advantages and limitations of perinatal postmortem imaging in clinical practice. <i>Pediatric Radiology</i> , 2015, 45, 491-500.	1.1	42
57	A semi-automated method for non-invasive internal organ weight estimation by post-mortem magnetic resonance imaging in fetuses, newborns and children. <i>European Journal of Radiology</i> , 2009, 72, 321-326.	1.2	41
58	Real-Time Magnetic Resonance Assessment of Septal Curvature Accurately Tracks Acute Hemodynamic Changes in Pediatric Pulmonary Hypertension. <i>Circulation: Cardiovascular Imaging</i> , 2014, 7, 706-713.	1.3	40
59	Effective transcatheter valve implantation after pulmonary homograft failure: A new perspective on the Ross operation. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2009, 138, 84-88.	0.4	39
60	Long-term importance of right ventricular outflow tract patch function in patients with pulmonary regurgitation. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2012, 143, 1103-1107.	0.4	39
61	Perinatal and paediatric post-mortem magnetic resonance imaging (PMMR): sequences and technique. <i>British Journal of Radiology</i> , 2016, 89, 20151028.	1.0	38
62	Population-specific material properties of the implantation site for transcatheter aortic valve replacement finite element simulations. <i>Journal of Biomechanics</i> , 2018, 71, 236-244.	0.9	38
63	Percutaneous Pulmonary Valve Implantation. <i>Pediatric Cardiac Surgery Annual</i> , 2009, 12, 112-117.	0.5	37
64	Electrical Remodeling Following Percutaneous Pulmonary Valve Implantation. <i>American Journal of Cardiology</i> , 2011, 107, 309-314.	0.7	37
65	MRI May Be Sufficient for Noninvasive Assessment of Great Vessel Stents: An In Vitro Comparison of MRI, CT, and Conventional Angiography. <i>American Journal of Roentgenology</i> , 2010, 195, 865-871.	1.0	36
66	Patient-specific simulations for planning treatment in congenital heart disease. <i>Interface Focus</i> , 2018, 8, 20170021.	1.5	35
67	Aortic arch shape is not associated with hypertensive response to exercise in patients with repaired congenital heart diseases. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, 101.	1.6	32
68	Automated monitoring of diaphragm end-expiratory position for real-time navigator echo MR coronary angiography. <i>Journal of Magnetic Resonance Imaging</i> , 1999, 9, 395-401.	1.9	31
69	A comparison between segmented k-space FLASH and interleaved spiral MR coronary angiography sequences. <i>Journal of Magnetic Resonance Imaging</i> , 2000, 11, 394-400.	1.9	31
70	In Vitro Study of the Norwood Palliation. <i>ASAIO Journal</i> , 2012, 58, 25-31.	0.9	31
71	Diagnostic accuracy of postmortem MRI for musculoskeletal abnormalities in fetuses and children. <i>Prenatal Diagnosis</i> , 2014, 34, 1254-1261.	1.1	31
72	Computational modelling of the right ventricle in repaired tetralogy of Fallot: can it provide insight into patient treatment?. <i>European Heart Journal Cardiovascular Imaging</i> , 2013, 14, 381-386.	0.5	30

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73	Pledget-Armed Sutures Affect the Haemodynamic Performance of Biologic Aortic Valve Substitutes: A Preliminary Experimental and Computational Study. <i>Cardiovascular Engineering and Technology</i> , 2017, 8, 17-29.	0.7	30
74	Current and future applications of 3D printing in congenital cardiology and cardiac surgery. <i>British Journal of Radiology</i> , 2019, 92, 20180389.	1.0	30
75	Magnetic resonance navigator echo diaphragm monitoring in patients with suspected diaphragm paralysis. <i>Journal of Magnetic Resonance Imaging</i> , 1999, 9, 69-74.	1.9	29
76	Paediatric and perinatal postmortem imaging: the need for a subspecialty approach. <i>Pediatric Radiology</i> , 2015, 45, 483-490.	1.1	29
77	Quantitative assessment of homograft function 1 year after insertion into the pulmonary position: impact of in situ homograft geometry on valve competence. <i>European Heart Journal</i> , 2009, 30, 2147-2154.	1.0	27
78	Reconstruction of fetal and infant anatomy using rapid prototyping of post-mortem MR images. <i>Insights Into Imaging</i> , 2010, 1, 281-286.	1.6	27
79	Ventriculoarterial coupling in palliated hypoplastic left heart syndrome: Noninvasive assessment of the effects of surgical arch reconstruction and shunt type. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014, 148, 1526-1533.	0.4	27
80	Looks Do Matter! Aortic Arch Shape After Hypoplastic Left Heart Syndrome Palliation Correlates With Cavopulmonary Outcomes. <i>Annals of Thoracic Surgery</i> , 2017, 103, 645-654.	0.7	26
81	Diffusion-weighted perinatal postmortem magnetic resonance imaging as a marker of postmortem interval. <i>European Radiology</i> , 2015, 25, 1399-1406.	2.3	23
82	Is traditional perinatal autopsy needed after detailed fetal ultrasound and post-mortem MRI?. <i>Prenatal Diagnosis</i> , 2019, 39, 818-829.	1.1	23
83	Patient-specific finite element models to support clinical decisions: A lesson learnt from a case study of percutaneous pulmonary valve implantation. <i>Catheterization and Cardiovascular Interventions</i> , 2015, 86, 1120-1130.	0.7	21
84	Lung aeration on post-mortem magnetic resonance imaging is a useful marker of live birth versus stillbirth. <i>International Journal of Legal Medicine</i> , 2015, 129, 531-536.	1.2	21
85	How to Image the Adult Patient With Fontan Circulation. <i>Circulation: Cardiovascular Imaging</i> , 2017, 10, .	1.3	21
86	Impact of percutaneous pulmonary valve implantation for right ventricular outflow tract dysfunction on exercise recovery kinetics. <i>International Journal of Cardiology</i> , 2014, 177, 276-280.	0.8	20
87	Brain volume estimation from post-mortem newborn and fetal MRI. <i>NeuroImage: Clinical</i> , 2014, 6, 438-444.	1.4	18
88	Validation and Application of Single Breath-Hold Cine Cardiac MR for Ventricular Function Assessment in Children with Congenital Heart Disease at Rest and During Adenosine Stress#. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2005, 7, 743-751.	1.6	17
89	Finite Element Strategies to Satisfy Clinical and Engineering Requirements in the Field of Percutaneous Valves. <i>Annals of Biomedical Engineering</i> , 2012, 40, 2663-2673.	1.3	17
90	Geometrical and Stress Analysis of Factors Associated With Stent Fracture After Melody Percutaneous Pulmonary Valve Implantation. <i>Circulation: Cardiovascular Interventions</i> , 2014, 7, 510-517.	1.4	17

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91	Postmortem cardiac imaging in fetuses and children. <i>Pediatric Radiology</i> , 2015, 45, 549-555.	1.1	17
92	Comprehensive assessment of the global and regional vascular responses to food ingestion in humans using novel rapid MRI. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 310, R541-R545.	0.9	16
93	3D morphometric analysis of the arterial switch operation using in vivo MRI data. <i>Clinical Anatomy</i> , 2014, 27, 1212-1222.	1.5	15
94	Parental consent for research and sudden infant death. <i>Lancet, The</i> , 2008, 372, 715.	6.3	14
95	Modeling single ventricle physiology: review of engineering tools to study first stage palliation of hypoplastic left heart syndrome. <i>Frontiers in Pediatrics</i> , 2013, 1, 31.	0.9	14
96	Voxelwise atlas rating for computer assisted diagnosis: Application to congenital heart diseases of the great arteries. <i>Medical Image Analysis</i> , 2015, 26, 185-194.	7.0	14
97	Ventriculovascular interactions late after atrial and arterial repair of transposition of the great arteries. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014, 148, 2627-2633.	0.4	11
98	The Effect of Modified Blalock-Taussig Shunt Size and Coarctation Severity on Coronary Perfusion After the Norwood Operation. <i>Annals of Thoracic Surgery</i> , 2014, 98, 648-654.	0.7	11
99	Quantification of ante-mortem hypoxic ischemic brain injury by post-mortem cerebral magnetic resonance imaging in neonatal encephalopathy. <i>European Journal of Paediatric Neurology</i> , 2015, 19, 665-671.	0.7	11
100	Comment on "Dose-responses from multi-model inference for the non-cancer disease mortality of atomic bomb survivors" (<i>Radiat. Environ. Biophys</i> (2012) 51:165-178) by Schöllnberger et al.. <i>Radiation and Environmental Biophysics</i> , 2013, 52, 157-159.	0.6	10
101	Isometric stress in cardiovascular magnetic resonance—a simple and easily replicable method of assessing cardiovascular differences not apparent at rest. <i>European Radiology</i> , 2016, 26, 1009-1017.	2.3	10
102	Three-dimensional printing in congenital heart disease: Considerations on training and clinical implementation from a teaching session. <i>International Journal of Artificial Organs</i> , 2019, 42, 595-599.	0.7	10
103	Can finite element models of ballooning procedures yield mechanical response of the cardiovascular site to overexpansion?. <i>Journal of Biomechanics</i> , 2016, 49, 2778-2784.	0.9	9
104	Taking Surgery Out of Reality. <i>Circulation: Cardiovascular Imaging</i> , 2019, 12, e009297.	1.3	9
105	Implementation of prognostic machine learning algorithms in paediatric chronic respiratory conditions: a scoping review. <i>BMJ Open Respiratory Research</i> , 2022, 9, e001165.	1.2	9
106	Computer Modeling to Tailor Therapy for Congenital Heart Disease. <i>Current Cardiology Reports</i> , 2013, 15, 395.	1.3	7
107	Computational Models of Aortic Coarctation in Hypoplastic Left Heart Syndrome: Considerations on Validation of a Detailed 3D model. <i>International Journal of Artificial Organs</i> , 2014, 37, 371-381.	0.7	7
108	Pulmonary valve interventions. <i>Expert Review of Cardiovascular Therapy</i> , 2011, 9, 1445-1457.	0.6	5

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109	Classification Performance of Neural Networks Versus Logistic Regression Models: Evidence From Healthcare Practice. <i>Cureus</i> , 2022, 14, e22443.	0.2	4
110	The role of artificial intelligence in paediatric cardiovascular magnetic resonance imaging. <i>Pediatric Radiology</i> , 2022, 52, 2131-2138.	1.1	4
111	Faecal calprotectin concentrations in neonates with CHD: pilot study. <i>Cardiology in the Young</i> , 2020, 30, 624-628.	0.4	3
112	Cardiovascular MR imaging " Indications, techniques and protocols. <i>Progress in Pediatric Cardiology</i> , 2010, 28, 3-10.	0.2	2
113	Beyond late gadolinium enhancement: the key role of diffuse myocardial fibrosis in severe aortic stenosis - an Equilibrium Contrast CMR study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011, 13, .	1.6	2
114	Multi-atlas synthesis for computer assisted diagnosis: Application to cardiovascular diseases. , 2015, , .		2
115	3D Printing Cardiovascular Anatomy: A Single-Centre Experience. , 0, , .		2
116	Imaging of Great Vessels. <i>Medical Radiology</i> , 2011, , 611-656.	0.0	1
117	Percutaneous Pulmonary Valve Implantation: The First Transcatheter Valve. , 2013, , 211-226.		1
118	Mechanisms of intradural gas on post mortem magnetic resonance imaging. <i>Journal of Forensic Radiology and Imaging</i> , 2014, 2, 138-142.	1.2	1
119	The Evolution of 3D Modeling in Cardiac Disease. , 2020, , 1-15.		1
120	Title is missing!. <i>International Journal of Cardiovascular Imaging</i> , 1998, 14, 187-189.	0.2	0
121	Implementing the Sano Modification in an Experimental Model of the Norwood Circulation. , 2012, , .		0
122	Patient-Specific Simulations in Interventional Cardiology Practice: Early Results From a Clinical/Engineering Centre. , 2013, , .		0
123	A Non-Invasive Study Using MR-Derived Wave Intensity Analysis to Highlight the Effect of Surgical Arch Reconstruction on Ventriculo-Arterial Coupling in Patients With Hypoplastic Left Heart Syndrome. , 2012, , .		0
124	Combining 4D MR Flow Experimental Data and Computational Fluid Dynamics to Study the Neoaorta in Patients With Repaired Transposition of the Great Arteries. , 2013, , .		0
125	A Hemi Fontan Operation Performed by an Engineer: Considerations on Virtual Surgery. , 2013, , .		0