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	Classification Performance of Neural Networks Versus Logistic Regression Models: Evidence From Healthcare Practice. Cureus, 2022, 14, e22443.	0.2	4
2	Implementation of prognostic machine learning algorithms in paediatric chronic respiratory conditions: a scoping review. BMJ Open Respiratory Research, 2022, 9, e001165.	1.2	9
3	The role of artificial intelligence in paediatric cardiovascular magnetic resonance imaging. Pediatric Radiology, 2022, 52, 2131-2138.	1.1	4
4	The Evolution of 3D Modeling in Cardiac Disease. , 2020, , 1-15.		1
5	Faecal calprotectin concentrations in neonates with CHD: pilot study. Cardiology in the Young, 2020, 30, 624-628.	0.4	3
6	Taking Surgery Out of Reality. Circulation: Cardiovascular Imaging, 2019, 12, e009297.	1.3	9
7	Three-dimensional printing in congenital heart disease: Considerations on training and clinical implementation from a teaching session. International Journal of Artificial Organs, 2019, 42, 595-599.	0.7	10
8	Is traditional perinatal autopsy needed after detailed fetal ultrasound and postâ€mortem MRI?. Prenatal Diagnosis, 2019, 39, 818-829.	1.1	23
9	Current and future applications of 3D printing in congenital cardiology and cardiac surgery. British Journal of Radiology, 2019, 92, 20180389.	1.0	30
10	Population-specific material properties of the implantation site for transcatheter aortic valve replacement finite element simulations. Journal of Biomechanics, 2018, 71, 236-244.	0.9	38
11	Patient-specific simulations for planning treatment in congenital heart disease. Interface Focus, 2018, 8, 20170021.	1.5	35
12	Piloting the Use of Patient-Specific Cardiac Models as a Novel Tool to Facilitate Communication During Cinical Consultations. Pediatric Cardiology, 2017, 38, 813-818.	0.6	88
13	Computational modelling for congenital heart disease: how far are we from clinical translation?. Heart, 2017, 103, 98-103.	1.2	55
14	How to Image the Adult Patient With Fontan Circulation. Circulation: Cardiovascular Imaging, 2017, 10, .	1.3	21
15	Looks Do Matter! Aortic Arch Shape After Hypoplastic Left Heart Syndrome Palliation Correlates With Cavopulmonary Outcomes. Annals of Thoracic Surgery, 2017, 103, 645-654.	0.7	26
16	Use of 3D models of congenital heart disease as an education tool for cardiac nurses. Congenital Heart Disease, 2017, 12, 113-118.	0.0	82
17	How successful is successful? Aortic arch shape after successful aortic coarctation repair correlates with left ventricular function. Journal of Thoracic and Cardiovascular Surgery, 2017, 153, 418-427.	0.4	61
18	Pledget-Armed Sutures Affect the Haemodynamic Performance of Biologic Aortic Valve Substitutes: A Preliminary Experimental and Computational Study. Cardiovascular Engineering and Technology, 2017, 8, 17-29.	0.7	30

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19	Diagnostic performance and reference values of novel biomarkers of paediatric heart failure. Heart, 2016, 102, 1633-1639.	1.2	48
20	A statistical shape modelling framework to extract 3D shape biomarkers from medical imaging data: assessing arch morphology of repaired coarctation of the aorta. BMC Medical Imaging, 2016, 16, 40.	1.4	65
21	Comprehensive assessment of the global and regional vascular responses to food ingestion in humans using novel rapid MRI. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 310, R541-R545.	0.9	16
22	Perinatal and paediatric post-mortem magnetic resonance imaging (PMMR): sequences and technique. British Journal of Radiology, 2016, 89, 20151028.	1.0	38
23	Can finite element models of ballooning procedures yield mechanical response of the cardiovascular site to overexpansion?. Journal of Biomechanics, 2016, 49, 2778-2784.	0.9	9
24	Comparison of diagnostic performance for perinatal and paediatric post-mortem imaging: CT versus MRI. European Radiology, 2016, 26, 2327-2336.	2.3	55
25	Isometric stress in cardiovascular magnetic resonanceâ€"a simple and easily replicable method of assessing cardiovascular differences not apparent at rest. European Radiology, 2016, 26, 1009-1017.	2.3	10
26	Multi-atlas synthesis for computer assisted diagnosis: Application to cardiovascular diseases. , 2015, , .		2
27	Patientâ€specific finite element models to support clinical decisions: A lesson learnt from a case study of percutaneous pulmonary valve implantation. Catheterization and Cardiovascular Interventions, 2015, 86, 1120-1130.	0.7	21
28	Using 4D Cardiovascular Magnetic Resonance Imaging to Validate Computational Fluid Dynamics: A Case Study. Frontiers in Pediatrics, 2015, 3, 107.	0.9	42
29	Lung aeration on post-mortem magnetic resonance imaging is a useful marker of live birth versus stillbirth. International Journal of Legal Medicine, 2015, 129, 531-536.	1.2	21
30	3D-manufactured patient-specific models of congenital heart defects for communication in clinical practice: feasibility and acceptability. BMJ Open, 2015, 5, e007165-e007165.	0.8	176
31	Diagnostic accuracy of post mortem MRI for abdominal abnormalities in foetuses and children. European Journal of Radiology, 2015, 84, 474-481.	1.2	45
32	Paediatric and perinatal postmortem imaging: the need for a subspecialty approach. Pediatric Radiology, 2015, 45, 483-490.	1.1	29
33	Postmortem cardiac imaging in fetuses and children. Pediatric Radiology, 2015, 45, 549-555.	1.1	17
34	Normal perinatal and paediatric postmortem magnetic resonance imaging appearances. Pediatric Radiology, 2015, 45, 527-535.	1.1	43
35	Diffusion-weighted perinatal postmortem magnetic resonance imaging as a marker of postmortem interval. European Radiology, 2015, 25, 1399-1406.	2.3	23
36	Voxelwise atlas rating for computer assisted diagnosis: Application to congenital heart diseases of the great arteries. Medical Image Analysis, 2015, 26, 185-194.	7.0	14

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37	Quantification of ante-mortem hypoxic ischemic brain injury by post-mortem cerebral magnetic resonance imaging in neonatal encephalopathy. European Journal of Paediatric Neurology, 2015, 19, 665-671.	0.7	11
38	Indications, advantages and limitations of perinatal postmortem imaging in clinical practice. Pediatric Radiology, 2015, 45, 491-500.	1.1	42
39	Computational Models of Aortic Coarctation in Hypoplastic Left Heart Syndrome: Considerations on Validation of a Detailed 3D model. International Journal of Artificial Organs, 2014, 37, 371-381.	0.7	7
40	Brain volume estimation from post-mortem newborn and fetal MRI. NeuroImage: Clinical, 2014, 6, 438-444.	1.4	18
41	3D morphometric analysis of the arterial switch operation using in vivo MRI data. Clinical Anatomy, 2014, 27, 1212-1222.	1.5	15
42	Ventriculovascular interactions late after atrial and arterial repair of transposition of the great arteries. Journal of Thoracic and Cardiovascular Surgery, 2014, 148, 2627-2633.	0.4	11
43	Geometrical and Stress Analysis of Factors Associated With Stent Fracture After Melody Percutaneous Pulmonary Valve Implantation. Circulation: Cardiovascular Interventions, 2014, 7, 510-517.	1.4	17
44	Real-Time Magnetic Resonance Assessment of Septal Curvature Accurately Tracks Acute Hemodynamic Changes in Pediatric Pulmonary Hypertension. Circulation: Cardiovascular Imaging, 2014, 7, 706-713.	1.3	40
45	Diagnostic accuracy of post-mortem MRI for thoracic abnormalities in fetuses and children. European Radiology, 2014, 24, 2876-2884.	2.3	56
46	Imaging for Preintervention Planning. Circulation: Cardiovascular Imaging, 2014, 7, 182-189.	1.3	43
47	Diagnostic accuracy of postmortem MRI for musculoskeletal abnormalities in fetuses and children. Prenatal Diagnosis, 2014, 34, 1254-1261.	1.1	31
48	Impact of percutaneous pulmonary valve implantation for right ventricular outflow tract dysfunction on exercise recovery kinetics. International Journal of Cardiology, 2014, 177, 276-280.	0.8	20
49	Postmortem Cardiovascular Magnetic Resonance Imaging in Fetuses and Children. Circulation, 2014, 129, 1937-1944.	1.6	52
50	Multimodality Imaging Guidelines for Patients with Repaired Tetralogy of Fallot: A Report from the American Society of Echocardiography. Journal of the American Society of Echocardiography, 2014, 27, 111-141.	1.2	264
51	Ventriculoarterial coupling in palliated hypoplastic left heart syndrome: Noninvasive assessment of the effects of surgical arch reconstruction and shunt type. Journal of Thoracic and Cardiovascular Surgery, 2014, 148, 1526-1533.	0.4	27
52	The Effect of Modified Blalock-Taussig Shunt Size and Coarctation Severity on Coronary Perfusion After the Norwood Operation. Annals of Thoracic Surgery, 2014, 98, 648-654.	0.7	11
53	Mechanisms of intradural gas on post mortem magnetic resonance imaging. Journal of Forensic Radiology and Imaging, 2014, 2, 138-142.	1.2	1
54	Comment on â€œDose-responses from multi-model inference for the non-cancer disease mortality of atomic bomb survivorsâ€•(Radiat. Environ. Biophys (2012) 51:165â€“178) by SchÃ¶llnberger et al.. Radiation and Environmental Biophysics, 2013, 52, 157-159.	0.6	10

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55	Computer Modeling to Tailor Therapy for Congenital Heart Disease. Current Cardiology Reports, 2013, 15, 395.	1.3	7
56	Rapid prototyping compliant arterial phantoms for in-vitro studies and device testing. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 2.	1.6	130
57	Aortic arch shape is not associated with hypertensive response to exercise in patients with repaired congenital heart diseases. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 101.	1.6	32
58	Percutaneous Pulmonary Valve Implantation: The First Transcatheter Valve. , 2013, , 211-226.		1
59	Post-mortem MRI versus conventional autopsy in fetuses and children: a prospective validation study. Lancet, The, 2013, 382, 223-233.	6.3	249
60	Computational modelling of the right ventricle in repaired tetralogy of Fallot: can it provide insight into patient treatment?. European Heart Journal Cardiovascular Imaging, 2013, 14, 381-386.	0.5	30
61	Diffuse myocardial fibrosis in the systemic right ventricle of patients late after Mustard or Senning surgery: an equilibrium contrast cardiovascular magnetic resonance study. European Heart Journal Cardiovascular Imaging, 2013, 14, 963-968.	0.5	65
62	Patient-Specific Simulations in Interventional Cardiology Practice: Early Results From a Clinical/Engineering Centre. , 2013, , .		0
63	Modeling single ventricle physiology: review of engineering tools to study first stage palliation of hypoplastic left heart syndrome. Frontiers in Pediatrics, 2013, 1, 31.	0.9	14
64	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
65	A Hemi Fontan Operation Performed by an Engineer: Considerations on Virtual Surgery. , 2013, , .		0
66	Systematic Review and Meta-analysis of Circulatory Disease from Exposure to Low-Level Ionizing Radiation and Estimates of Potential Population Mortality Risks. Environmental Health Perspectives, 2012, 120, 1503-1511.	2.8	296
67	In Vitro Study of the Norwood Palliation. ASAIO Journal, 2012, 58, 25-31.	0.9	31
68	Implementing the Sano Modification in an Experimental Model of the Norwood Circulation. , 2012, , .		0
69	Diffuse myocardial fibrosis in severe aortic stenosis: an equilibrium contrast cardiovascular magnetic resonance study. European Heart Journal Cardiovascular Imaging, 2012, 13, 819-826.	0.5	161
70	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. European Heart Journal, 2012, 33, 2434-2441.	1.0	45
71	Finite Element Strategies to Satisfy Clinical and Engineering Requirements in the Field of Percutaneous Valves. Annals of Biomedical Engineering, 2012, 40, 2663-2673.	1.3	17
72	Cardiovascular magnetic resonance measurement of myocardial extracellular volume in health and disease. Heart, 2012, 98, 1436-1441.	1.2	276

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73	Long-term importance of right ventricular outflow tract patch function in patients with pulmonary regurgitation. Journal of Thoracic and Cardiovascular Surgery, 2012, 143, 1103-1107.	0.4	39
74	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
75	Pulmonary valve interventions. Expert Review of Cardiovascular Therapy, 2011, 9, 1445-1457.	0.6	5
76	Early Versus Late Functional Outcome After Successful Percutaneous Pulmonary Valve Implantation. Journal of the American College of Cardiology, 2011, 57, 724-731.	1.2	120
77	Imaging of Great Vessels. Medical Radiology, 2011, , 611-656.	0.0	1
78	Electrical Remodeling Following Percutaneous Pulmonary Valve Implantation. American Journal of Cardiology, 2011, 107, 309-314.	0.7	37
79	Four-dimensional computed tomography: a method of assessing right ventricular outflow tract and pulmonary artery deformations throughout the cardiac cycle. European Radiology, 2011, 21, 36-45.	2.3	62
80	Post mortem magnetic resonance imaging in the fetus, infant and child: A comparative study with conventional autopsy (MaRIAS Protocol). BMC Pediatrics, 2011, 11, 120.	0.7	78
81	The Role of Cardiovascular Magnetic Resonance in Pediatric Congenital Heart Disease. Journal of Cardiovascular Magnetic Resonance, 2011, 13, 51.	1.6	127
82	Beyond late gadolinium enhancement: the key role of diffuse myocardial fibrosis in severe aortic stenosis - an Equilibrium Contrast CMR study. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	1.6	2
83	Pre-stenting with a bare metal stent before percutaneous pulmonary valve implantation: acute and 1-year outcomes. Heart, 2011, 97, 118-123.	1.2	109
84	Fractal branching quantifies vascular changes and predicts survival in pulmonary hypertension: a proof of principle study. Heart, 2011, 97, 1245-1249.	1.2	52
85	Patient-specific reconstructed anatomies and computer simulations are fundamental for selecting medical device treatment: application to a new percutaneous pulmonary valve. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 3027-3038.	1.6	51
86	Patient specific finite element analysis results in more accurate prediction of stent fractures: Application to percutaneous pulmonary valve implantation. Journal of Biomechanics, 2010, 43, 687-693.	0.9	79
87	Reconstruction of fetal and infant anatomy using rapid prototyping of post-mortem MR images. Insights Into Imaging, 2010, 1, 281-286.	1.6	27
88	Cardiovascular MR imaging â€" Indications, techniques and protocols. Progress in Pediatric Cardiology, 2010, 28, 3-10.	0.2	2
89	Effect of Altering Pathologic Right Ventricular Loading Conditions by Percutaneous Pulmonary Valve Implantation on Exercise Capacity. American Journal of Cardiology, 2010, 105, 721-726.	0.7	58
90	Equilibrium Contrast Cardiovascular Magnetic Resonance for the Measurement of Diffuse Myocardial Fibrosis. Circulation, 2010, 122, 138-144.	1.6	793

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91	MRI May Be Sufficient for Noninvasive Assessment of Great Vessel Stents: An In Vitro Comparison of MRI, CT, and Conventional Angiography. American Journal of Roentgenology, 2010, 195, 865-871.	1.0	36
92	Diagnostic accuracy of post-mortem magnetic resonance imaging in fetuses, children and adults: A systematic review. European Journal of Radiology, 2010, 75, e142-e148.	1.2	75
93	First-in-man implantation of a novel percutaneous valve: a new approach to medical device development. EuroIntervention, 2010, 5, 745-750.	1.4	117
94	Quantitative assessment of homograft function 1 year after insertion into the pulmonary position: impact of in situ homograft geometry on valve competence. European Heart Journal, 2009, 30, 2147-2154.	1.0	27
95	Improvement in left ventricular filling properties after relief of right ventricle to pulmonary artery conduit obstruction: contribution of septal motion and interventricular mechanical delay. European Heart Journal, 2009, 30, 2266-2274.	1.0	95
96	Comparison of Bare Metal Stenting and Percutaneous Pulmonary Valve Implantation for Treatment of Right Ventricular Outflow Tract Obstruction. Circulation, 2009, 119, 2995-3001.	1.6	56
97	Effective transcatheter valve implantation after pulmonary homograft failure: A new perspective on the Ross operation. Journal of Thoracic and Cardiovascular Surgery, 2009, 138, 84-88.	0.4	39
98	Percutaneous Pulmonary Valve Implantation. Pediatric Cardiac Surgery Annual, 2009, 12, 112-117.	0.5	37
99	A semi-automated method for non-invasive internal organ weight estimation by post-mortem magnetic resonance imaging in fetuses, newborns and children. European Journal of Radiology, 2009, 72, 321-326.	1.2	41
100	Pulmonary regurgitation: The effects of varying pulmonary artery compliance, and of increased resistance proximal or distal to the compliance. International Journal of Cardiology, 2009, 133, 157-166.	0.8	62
101	Percutaneous pulmonary valve implantation: an update. Expert Review of Cardiovascular Therapy, 2009, 7, 823-833.	0.6	50
102	Post-mortem examination of human fetuses: a comparison of whole-body high-field MRI at 9Â·4 T with conventional MRI and invasive autopsy. Lancet, The, 2009, 374, 467-475.	6.3	130
103	Cardiac imaging: MR or CT? Which to use when. Pediatric Radiology, 2008, 38, 433-438.	1.1	49
104	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. European Journal of Radiology, 2008, 68, 191-198.	1.2	48
105	Parental consent for research and sudden infant death. Lancet, The, 2008, 372, 715.	6.3	14
106	Percutaneous Pulmonary Valve Implantation. Circulation, 2008, 117, 1964-1972.	1.6	436
107	Current approaches to pulmonary regurgitationâ˜†â˜†â˜†. European Journal of Cardio-thoracic Surgery, 2008, 34, 576-581.	0.6	54
108	Percutaneous pulmonary valve-in-valve implantation: a successful treatment concept for early device failure. European Heart Journal, 2008, 29, 810-815.	1.0	96

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109	Variations in Right Ventricular Outflow Tract Morphology Following Repair of Congenital Heart Disease: Implications for Percutaneous Pulmonary Valve Implantation. Journal of Cardiovascular Magnetic Resonance, 2007, 9, 687-695.	1.6	173
110	Risk Stratification, Systematic Classification, and Anticipatory Management Strategies for Stent Fracture After Percutaneous Pulmonary Valve Implantation. Circulation, 2007, 115, 1392-1397.	1.6	183
111	Percutaneous Pulmonary Valve Implantation Based on Rapid Prototyping of Right Ventricular Outflow Tract and Pulmonary Trunk from MR Data. Radiology, 2007, 242, 490-497.	3.6	214
112	Finite Element Analysis of Stent Deployment: Understanding Stent Fracture in Percutaneous Pulmonary Valve Implantation. Journal of Interventional Cardiology, 2007, 20, 546-554.	0.5	62
113	Detection of pericardial inflammation with late-enhancement cardiac magnetic resonance imaging: initial results. European Radiology, 2006, 16, 569-574.	2.3	133
114	Transcatheter Right Ventricular Outflow Tract Intervention. Circulation, 2006, 113, e934-5.	1.6	61
115	Physiological and Clinical Consequences of Relief of Right Ventricular Outflow Tract Obstruction Late After Repair of Congenital Heart Defects. Circulation, 2006, 113, 2037-2044.	1.6	144
116	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#. Journal of Cardiovascular Magnetic Resonance, 2005, 7, 743-751.	1.6	17
117	Cardiac anatomy revisited. Journal of Anatomy, 2004, 205, 159-177.	0.9	156
118	Three-dimensional magnetic resonance imaging of congenital cardiac anomalies. Cardiology in the Young, 2003, 13, 461-465.	0.4	55
119	A comparison between segmented k-space FLASH and interleaved spiral MR coronary angiography sequences. Journal of Magnetic Resonance Imaging, 2000, 11, 394-400.	1.9	31
120	Magnetic resonance navigator echo diaphragm monitoring in patients with suspected diaphragm paralysis. Journal of Magnetic Resonance Imaging, 1999, 9, 69-74.	1.9	29
121	Automated monitoring of diaphragm end-expiratory position for real-time navigator echo MR coronary angiography. Journal of Magnetic Resonance Imaging, 1999, 9, 395-401.	1.9	31
122	Differences between normal subjects and patients with coronary artery disease for three different MR coronary angiography respiratory suppression techniques. Journal of Magnetic Resonance Imaging, 1999, 9, 786-793.	1.9	66
123	Title is missing!. International Journal of Cardiovascular Imaging, 1998, 14, 187-189.	0.2	0
124	MR navigator-echo monitoring of temporal changes in diaphragm position: Implications for MR coronary angiography. Journal of Magnetic Resonance Imaging, 1997, 7, 629-636.	1.9	189
125	3D Printing Cardiovascular Anatomy: A Single-Centre Experience. , 0, , .		2