

Michael D Hope

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

4,569
citations

126907

33
h-index

106344

65
g-index

101
all docs

101
docs citations

101
times ranked

5427
citing authors

#	ARTICLE	IF	CITATIONS
1	4D flow cardiovascular magnetic resonance consensus statement. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, 72.	3.3	642
2	Bicuspid Aortic Valve: Four-dimensional MR Evaluation of Ascending Aortic Systolic Flow Patterns. <i>Radiology</i> , 2010, 255, 53-61.	7.3	364
3	4D Flow CMR in Assessment of Valve-Related Ascending Aortic Disease. <i>JACC: Cardiovascular Imaging</i> , 2011, 4, 781-787.	5.3	231
4	The American Association for Thoracic Surgery consensus guidelines on bicuspid aortic valve-related aortopathy: Full online-only version. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018, 156, e41-e74.	0.8	202
5	Time-Resolved 3-Dimensional Velocity Mapping in the Thoracic Aorta. <i>Journal of Computer Assisted Tomography</i> , 2004, 28, 459-468.	0.9	183
6	Safety and technique of ferumoxytol administration for MRI. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 2107-2111.	3.0	171
7	Chest CT and Coronavirus Disease (COVID-19): A Critical Review of the Literature to Date. <i>American Journal of Roentgenology</i> , 2020, 215, 839-842.	2.2	155
8	A role for CT in COVID-19? What data really tell us so far. <i>Lancet, The</i> , 2020, 395, 1189-1190.	13.7	154
9	Clinical evaluation of aortic coarctation with 4D flow MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 31, 711-718.	3.4	137
10	Detection of Small Pulmonary Nodules with Ultrashort Echo Time Sequences in Oncology Patients by Using a PET/MR System. <i>Radiology</i> , 2016, 278, 239-246.	7.3	124
11	Magnetic Resonance Measurement of Turbulent Kinetic Energy for the Estimation of Irreversible Pressure Loss in Aortic Stenosis. <i>JACC: Cardiovascular Imaging</i> , 2013, 6, 64-71.	5.3	122
12	Comparison of four-dimensional flow parameters for quantification of flow eccentricity in the ascending aorta. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 1226-1230.	3.4	121
13	Vascular Imaging With Ferumoxytol as a Contrast Agent. <i>American Journal of Roentgenology</i> , 2015, 205, W366-W373.	2.2	104
14	Assessment of mitral valve regurgitation by cardiovascular magnetic resonance imaging. <i>Nature Reviews Cardiology</i> , 2020, 17, 298-312.	13.7	103
15	Multicenter Safety and Practice for Off-Label Diagnostic Use of Ferumoxytol in MRI. <i>Radiology</i> , 2019, 293, 554-564.	7.3	99
16	Chest CT Imaging Signature of Coronavirus Disease 2019 Infection. <i>Chest</i> , 2020, 158, 1885-1895.	0.8	97
17	Biomechanical Properties of Human Ascending Thoracic Aortic Aneurysms. <i>Annals of Thoracic Surgery</i> , 2013, 96, 50-58.	1.3	85
18	MRI hemodynamic markers of progressive bicuspid aortic valve-related aortic disease. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 140-145.	3.4	78

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19	The American Association for Thoracic Surgery consensus guidelines on bicuspid aortic valve-related aortopathy: Executive summary. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018, 156, 473-480.	0.8	70
20	Evaluation of Bicuspid Aortic Valve and Aortic Coarctation With 4D Flow Magnetic Resonance Imaging. <i>Circulation</i> , 2008, 117, 2818-2819.	1.6	64
21	Imaging Biomarkers of Aortic Disease. <i>Journal of the American College of Cardiology</i> , 2012, 60, 356-357.	2.8	62
22	International consensus statement on nomenclature and classification of the congenital bicuspid aortic valve and its aortopathy, for clinical, surgical, interventional and research purposes. <i>European Journal of Cardio-thoracic Surgery</i> , 2021, 60, 448-476.	1.4	61
23	4D Flow MRI Applications for Aortic Disease. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2015, 23, 15-23.	1.1	58
24	Chest Computed Tomography for Detection of Coronavirus Disease 2019 (COVID-19): Don't Rush the Science. <i>Annals of Internal Medicine</i> , 2020, 173, 147-148.	3.9	55
25	Systematic Review and Meta-Analysis on the Value of Chest CT in the Diagnosis of Coronavirus Disease (COVID-19): <i>Sol Scientiae, Illustra Nos</i> . <i>American Journal of Roentgenology</i> , 2020, 215, 1342-1350.	2.2	55
26	A visual approach for the accurate determination of echocardiographic left ventricular ejection fraction by medical students. <i>Journal of the American Society of Echocardiography</i> , 2003, 16, 824-831.	2.8	49
27	Intraluminal Thrombus Predicts Rapid Growth of Abdominal Aortic Aneurysms. <i>Radiology</i> , 2020, 294, 707-713.	7.3	47
28	International consensus statement on nomenclature and classification of the congenital bicuspid aortic valve and its aortopathy, for clinical, surgical, interventional and research purposes. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2021, 162, e383-e414.	0.8	47
29	Systolic Flow Displacement Correlates With Future Ascending Aortic Growth in Patients With Bicuspid Aortic Valves Undergoing Magnetic Resonance Surveillance. <i>Investigative Radiology</i> , 2014, 49, 635-639.	6.2	45
30	Ascending thoracic aortic aneurysm wall stress analysis using patient-specific finite element modeling of <i>in vivo</i> magnetic resonance imaging. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2015, 21, 471-480.	1.1	45
31	Cardiothoracic Magnetic Resonance Flow Imaging. <i>Journal of Thoracic Imaging</i> , 2013, 28, 217-230.	1.5	42
32	Intraprocedural Safety and Technical Success of the MVP Micro Vascular Plug for Embolization of Pulmonary Arteriovenous Malformations. <i>Journal of Vascular and Interventional Radiology</i> , 2015, 26, 1735-1739.	0.5	41
33	Isotropic 3D black blood MRI of abdominal aortic aneurysm wall and intraluminal thrombus. <i>Magnetic Resonance Imaging</i> , 2016, 34, 18-25.	1.8	35
34	Wall stress on ascending thoracic aortic aneurysms with bicuspid compared with tricuspid aortic valve. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018, 156, 492-500.	0.8	33
35	Retrograde flow in the false lumen: Marker of a false lumen under stress?. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2019, 157, 488-491.	0.8	29
36	The Limited Sensitivity of Chest Computed Tomography Relative to Reverse Transcription Polymerase Chain Reaction for Severe Acute Respiratory Syndrome Coronavirus-2 Infection. <i>Investigative Radiology</i> , 2020, 55, 754-761.	6.2	28

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37	Evaluation of Marfan patients status post valve-sparing aortic root replacement with 4D flow. Magnetic Resonance Imaging, 2013, 31, 1479-1484.	1.8	27
38	Wall stress analyses in patients with aortic versus ascending thoracic aortic aneurysm. Journal of Thoracic and Cardiovascular Surgery, 2021, 162, 1452-1459.	0.8	27
39	International Consensus Statement on Nomenclature and Classification of the Congenital Bicuspid Aortic Valve and Its Aortopathy, for Clinical, Surgical, Interventional and Research Purposes. Annals of Thoracic Surgery, 2021, 112, e203-e235.	1.3	25
40	Post-stenotic dilation: Evaluation of ascending aortic dilation with 4D flow MR imaging. International Journal of Cardiology, 2012, 156, e40-e42.	1.7	22
41	Bicuspid Valve-Related Aortic Disease. Academic Radiology, 2015, 22, 690-696.	2.5	21
42	Non-contrast 3D black blood MRI for abdominal aortic aneurysm surveillance: comparison with CT angiography. European Radiology, 2017, 27, 1787-1794.	4.5	20
43	Wall Stress Distribution in Bicuspid Aortic Valve-Associated Ascending Thoracic Aortic Aneurysms. Annals of Thoracic Surgery, 2020, 110, 807-814.	1.3	19
44	Reply to Letters Addressing Chest CT and Coronavirus Disease (COVID-19): A Critical Review of the Literature to Date. American Journal of Roentgenology, 2020, 215, W67-W68.	2.2	18
45	Extended 3D approach for quantification of abnormal ascending aortic flow. Magnetic Resonance Imaging, 2015, 33, 695-700.	1.8	17
46	How to Measure the Aorta Using MRI: A Practical Guide. Journal of Magnetic Resonance Imaging, 2020, 52, 971-977.	3.4	17
47	Quantitative Assessment of Asymmetric Aortic Dilation with Valve-related Aortic Disease. Academic Radiology, 2013, 20, 10-15.	2.5	15
48	Evaluation of the distribution and progression of intraluminal thrombus in abdominal aortic aneurysms using high-resolution MRI. Journal of Magnetic Resonance Imaging, 2019, 50, 994-1001.	3.4	15
49	International Consensus Statement on Nomenclature and Classification of the Congenital Bicuspid Aortic Valve and Its Aortopathy, for Clinical, Surgical, Interventional and Research Purposes. Radiology: Cardiothoracic Imaging, 2021, 3, e200496.	2.5	15
50	Incidental Aortic Valve Calcification on CT Scans. Academic Radiology, 2012, 19, 542-547.	2.5	14
51	Diastolic function assessed by cardiac MRI using longitudinal left ventricular fractional shortening. Clinical Imaging, 2014, 38, 666-668.	1.5	14
52	Prevalence and Significance of Incidentally Noted Dilation of the Ascending Aorta on Routine Chest Computed Tomography in Older Patients. Journal of Computer Assisted Tomography, 2015, 39, 109-111.	0.9	14
53	Four-dimensional magnetic resonance imaging-derived ascending aortic flow eccentricity and flow compression are linked to aneurysm morphology. Interactive Cardiovascular and Thoracic Surgery, 2015, 20, 582-588.	1.1	14
54	Ferumoxylol MRA for transcatheter aortic valve replacement planning with renal insufficiency. International Journal of Cardiology, 2017, 231, 255-257.	1.7	14

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55	CT on the Diamond Princess: What Might This Tell Us About Sensitivity for COVID-19?. <i>Radiology: Cardiothoracic Imaging</i> , 2020, 2, e200155.	2.5	12
56	Feature Tracking Cardiac MRI Reveals Abnormalities in Ventricular Function in Patients With Bicuspid Aortic Valve and Preserved Ejection Fraction. <i>Tomography</i> , 2018, 4, 26-32.	1.8	12
57	Diagnostic value of the flow profile in the distal descending aorta by phase-contrast magnetic resonance for predicting severe coarctation of the aorta. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 33, 1440-1446.	3.4	11
58	Functional and molecular imaging techniques in aortic aneurysm disease. <i>Current Opinion in Cardiology</i> , 2013, 28, 609-618.	1.8	11
59	Gated thoracic magnetic resonance angiography at 3T: noncontrast versus blood pool contrast. <i>International Journal of Cardiovascular Imaging</i> , 2018, 34, 475-483.	1.5	11
60	Association of diameter and wall stresses of tricuspid aortic valve ascending thoracic aortic aneurysms. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2022, 164, 1365-1375.	0.8	11
61	Patient-specific finite element analysis of ascending thoracic aortic aneurysm. <i>Journal of Heart Valve Disease</i> , 2014, 23, 765-72.	0.5	11
62	Four-Dimensional Flow Magnetic Resonance Imaging With Wall Shear Stress Analysis Before and After Repair of Aortopulmonary Fistula. <i>Circulation: Cardiovascular Imaging</i> , 2010, 3, 766-768.	2.6	10
63	4D flow image quality with blood pool contrast: a comparison of gadofosveset trisodium and ferumoxytol. <i>International Journal of Cardiovascular Imaging</i> , 2018, 34, 273-279.	1.5	9
64	Challenges in the interpretation and application of typical imaging features of COVID-19. <i>Lancet Respiratory Medicine</i> , 2020, 8, 534-536.	10.7	9
65	Pediatric chest CT at chest radiograph doses: when is the ultralow-dose chest CT clinically appropriate?. <i>Emergency Radiology</i> , 2017, 24, 369-376.	1.8	8
66	Four-Dimensional Magnetic Resonance Velocity Mapping in a Healthy Volunteer With Pseudocoarctation of the Thoracic Aorta. <i>Circulation</i> , 2004, 109, 3221-3222.	1.6	7
67	On the Relative Impact of Intraluminal Thrombus Heterogeneity on Abdominal Aortic Aneurysm Mechanics. <i>Journal of Biomechanical Engineering</i> , 2019, 141, .	1.3	7
68	Arch Hypoplasia and Aneurysm After Aortic Coarctation Repair. <i>JACC: Cardiovascular Imaging</i> , 2011, 4, 685-686.	5.3	6
69	Clinical Applications of Aortic 4D Flow Imaging. <i>Current Cardiovascular Imaging Reports</i> , 2013, 6, 128-139.	0.6	6
70	Association of Receipt of Positron Emission Tomography-Computed Tomography With Non-Small Cell Lung Cancer Mortality in the Veterans Affairs Health Care System. <i>JAMA Network Open</i> , 2019, 2, e1915828.	5.9	6
71	Summary: International consensus statement on nomenclature and classification of the congenital bicuspid aortic valve and its aortopathy, for clinical, surgical, interventional, and research purposes. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2021, 162, 781-797.	0.8	6
72	Improved Risk Assessment for Abdominal Aortic Aneurysm Rupture. <i>Journal of the American College of Cardiology</i> , 2011, 58, 2531-2532.	2.8	5

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73	Impact of hybrid supervision approaches on the performance of artificial intelligence for the classification of chest radiographs. <i>Computers in Biology and Medicine</i> , 2020, 120, 103699.	7.0	5
74	Reproducibility of quantitative analysis of aortic 4D flow data. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, .	3.3	4
75	Ascending thoracic aortic aneurysm growth is minimal at sizes that do not meet criteria for surgical repair. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 12, 0-0.	2.0	4
76	Aortopathy in Bicuspid Aortic Valve Disease: Is It Really Congenital?. <i>Radiology</i> , 2010, 256, 1015-1016.	7.3	3
77	Comprehensive Evaluation of Culture-Negative Endocarditis with Use of Cardiac and 4-Dimensional-Flow Magnetic Resonance Imaging. <i>Texas Heart Institute Journal</i> , 2014, 41, 351-352.	0.3	3
78	What Do We Really Know About Pulmonary Thrombosis in COVID-19 Infection?. <i>Journal of Thoracic Imaging</i> , 2020, Publish Ahead of Print, 341-343.	1.5	3
79	Computer-aided quantification of non-contrast 3D black blood MRI as an efficient alternative to reference standard manual CT angiography measurements of abdominal aortic aneurysms. <i>European Journal of Radiology</i> , 2021, 134, 109396.	2.6	3
80	Ascending Aortic Stiffness with Bicuspid Aortic Valve is Variable and Not Predicted by Conventional Parameters in Young Patients. <i>Journal of Heart Valve Disease</i> , 2016, 25, 270-280.	0.5	3
81	Tailoring Radiology Resident Education Using Aggregated Missed-Cases Data. <i>Journal of the American College of Radiology</i> , 2018, 15, 1013-1015.	1.8	2
82	When to rule out COVID-19: How many negative RT-PCR tests are needed?. <i>Respiratory Medicine Case Reports</i> , 2020, 31, 101192.	0.4	2
83	Abdominal aortic aneurysm measurement at CT/MRI: potential clinical ramifications of non-standardized measurement technique and importance of multiplanar reformation. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 823-830.	2.0	2
84	Summary: international consensus statement on nomenclature and classification of the congenital bicuspid aortic valve and its aortopathy, for clinical, surgical, interventional and research purposes. <i>European Journal of Cardio-thoracic Surgery</i> , 2021, 60, 481-496.	1.4	2
85	Association of 3-Year All-Cause Mortality and Peak Wall Stresses of Ascending Thoracic Aortic Aneurysms in Veterans. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2023, 35, 447-456.	0.6	2
86	Pain and Forgetting. <i>JAMA - Journal of the American Medical Association</i> , 2003, 289, 617.	7.4	1
87	Eccentric flow jets and elevated wall shear stress with bicuspid aortic valves. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2010, 12, .	3.3	1
88	COMPARISON OF TWO METHODS FOR ESTIMATING THE UNLOADED STATE FOR ABDOMINAL AORTIC ANEURYSM STRESS CALCULATIONS. <i>Journal of Mechanics in Medicine and Biology</i> , 2019, 19, 1950015.	0.7	1
89	Summary: International Consensus Statement on Nomenclature and Classification of the Congenital Bicuspid Aortic Valve and Its Aortopathy, for Clinical, Surgical, Interventional and Research Purposes. <i>Annals of Thoracic Surgery</i> , 2021, 112, 1005-1022.	1.3	1
90	Regional wall stress differences on tricuspid aortic valve-associated ascending aortic aneurysms. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2022, 34, 1115-1123.	1.1	1

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91	Bicuspid Aortic Valve-Associated Ascending Thoracic Aortic Aneurysm: Patient-Specific Finite Element Analysis. <i>Journal of Heart Valve Disease</i> , 2015, 24, 714-721.	0.5	1
92	Blood Flow Patterns of Risk in Aortic Dissection. <i>Journal of the American College of Cardiology</i> , 2022, 79, 2428-2430.	2.8	1
93	Improved quantification of abnormal aortic flow in 3D compared to standard 2D approach. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, P232.	3.3	0
94	Letter by Hope et al Regarding Article, "Bicuspid Aortic Cusp Fusion Morphology Alters Aortic Three-Dimensional Outflow Patterns, Wall Shear Stress, and Expression of Aortopathy." <i>Circulation</i> , 2014, 130, e170.	1.6	0
95	Vascular Inflammation in a Growing Iliac Artery Aneurysm. <i>Clinical Nuclear Medicine</i> , 2015, 40, e323-e324.	1.3	0
96	Evolving treatment options for valve and aortic disease with bicuspid aortic valve. <i>Annals of Translational Medicine</i> , 2017, 5, 333-333.	1.7	0
97	Ferumoxtyol-enhanced MR Angiography for Transcatheter Aortic Valve Replacement Planning in Patients with Renal Failure. <i>Radiology</i> , 2018, 287, 362-363.	7.3	0
98	Letter by Zhu et al Regarding Article, "Aortic Wall Inflammation Predicts Abdominal Aortic Aneurysm Expansion, Rupture, and Need for Surgical Repair." <i>Circulation</i> , 2018, 137, 1293-1294.	1.6	0
99	A Radiologist's Excursion in Four-dimensional Flow and the Bicuspid Aortic Valve: Vorticity, Helicity, Wall Shear Stress, and All That. <i>Radiology</i> , 2019, 293, 551-553.	7.3	0
100	Approach to Abnormal Chest Computed Tomography Contrast Enhancement in the Hospitalized Patient. <i>Radiologic Clinics of North America</i> , 2020, 58, 93-103.	1.8	0
101	Everyday amnesia. The curious effects of a common drug. <i>The Pharos of Alpha Omega Alpha-honor Medical Society Alpha Omega Alpha</i> , 2004, 67, 18-21.	0.1	0