

Michael D Hope

List of Publications by Year in descending order

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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	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
2	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
3	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
4	Blood Flow Patterns of Risk in Aortic Dissection. <i>Journal of the American College of Cardiology</i> , 2022, 79, 2428-2430.	2.8	1
5	Wall stress analyses in patients with ≥ 5 cm versus < 5 cm ascending thoracic aortic aneurysm. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2021, 162, 1452-1459.	0.8	27
6	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
7	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
8	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
9	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
10	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
11	International Consensus Statement on Nomenclature and Classification of the Congenital Bicuspid Aortic Valve and Its Aortopathy, for Clinical, Surgical, Interventional and Research Purposes. <i>Radiology: Cardiothoracic Imaging</i> , 2021, 3, e200496.	2.5	15
12	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, e203-e235.	1.3	25
13	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
14	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
15	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
16	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
17	Assessment of mitral valve regurgitation by cardiovascular magnetic resonance imaging. <i>Nature Reviews Cardiology</i> , 2020, 17, 298-312.	13.7	103
18	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

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19	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
20	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
21	Reply to Letters Addressing "Chest CT and Coronavirus Disease (COVID-19): A Critical Review of the Literature to Date". <i>American Journal of Roentgenology</i> , 2020, 215, W67-W68.	2.2	18
22	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
23	How to Measure the Aorta Using MRI: A Practical Guide. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 52, 971-977.	3.4	17
24	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
25	Wall Stress Distribution in Bicuspid Aortic Valve-Associated Ascending Thoracic Aortic Aneurysms. <i>Annals of Thoracic Surgery</i> , 2020, 110, 807-814.	1.3	19
26	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
27	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
28	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
29	Chest CT Imaging Signature of Coronavirus Disease 2019 Infection. <i>Chest</i> , 2020, 158, 1885-1895.	0.8	97
30	Intraluminal Thrombus Predicts Rapid Growth of Abdominal Aortic Aneurysms. <i>Radiology</i> , 2020, 294, 707-713.	7.3	47
31	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
32	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
33	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
34	Multicenter Safety and Practice for Off-Label Diagnostic Use of Ferumoxytol in MRI. <i>Radiology</i> , 2019, 293, 554-564.	7.3	99
35	Evaluation of the distribution and progression of intraluminal thrombus in abdominal aortic aneurysms using high-resolution MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 994-1001.	3.4	15
36	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

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37	Retrograde flow in the false lumen: Marker of a false lumen under stress?. Journal of Thoracic and Cardiovascular Surgery, 2019, 157, 488-491.	0.8	29
38	COMPARISON OF TWO METHODS FOR ESTIMATING THE UNLOADED STATE FOR ABDOMINAL AORTIC ANEURYSM STRESS CALCULATIONS. Journal of Mechanics in Medicine and Biology, 2019, 19, 1950015.	0.7	1
39	On the Relative Impact of Intraluminal Thrombus Heterogeneity on Abdominal Aortic Aneurysm Mechanics. Journal of Biomechanical Engineering, 2019, 141, .	1.3	7
40	Ferumoxytol-enhanced MR Angiography for Transcatheter Aortic Valve Replacement Planning in Patients with Renal Failure. Radiology, 2018, 287, 362-363.	7.3	0
41	Wall stress on ascending thoracic aortic aneurysms with bicuspid compared with tricuspid aortic valve. Journal of Thoracic and Cardiovascular Surgery, 2018, 156, 492-500.	0.8	33
42	Letter by Zhu et al Regarding Article, "Aortic Wall Inflammation Predicts Abdominal Aortic Aneurysm Expansion, Rupture, and Need for Surgical Repair". Circulation, 2018, 137, 1293-1294.	1.6	0
43	Gated thoracic magnetic resonance angiography at 3T: noncontrast versus blood pool contrast. International Journal of Cardiovascular Imaging, 2018, 34, 475-483.	1.5	11
44	4D flow image quality with blood pool contrast: a comparison of gadofosveset trisodium and ferumoxytol. International Journal of Cardiovascular Imaging, 2018, 34, 273-279.	1.5	9
45	The American Association for Thoracic Surgery consensus guidelines on bicuspid aortic valve-related aortopathy: Executive summary. Journal of Thoracic and Cardiovascular Surgery, 2018, 156, 473-480.	0.8	70
46	The American Association for Thoracic Surgery consensus guidelines on bicuspid aortic valve-related aortopathy: Full online-only version. Journal of Thoracic and Cardiovascular Surgery, 2018, 156, e41-e74.	0.8	202
47	Tailoring Radiology Resident Education Using Aggregated Missed-Cases Data. Journal of the American College of Radiology, 2018, 15, 1013-1015.	1.8	2
48	Feature Tracking Cardiac MRI Reveals Abnormalities in Ventricular Function in Patients With Bicuspid Aortic Valve and Preserved Ejection Fraction. Tomography, 2018, 4, 26-32.	1.8	12
49	Pediatric chest CT at chest radiograph doses: when is the ultralow-dose chest CT clinically appropriate?. Emergency Radiology, 2017, 24, 369-376.	1.8	8
50	Ferumoxytol MRA for transcatheter aortic valve replacement planning with renal insufficiency. International Journal of Cardiology, 2017, 231, 255-257.	1.7	14
51	Non-contrast 3D black blood MRI for abdominal aortic aneurysm surveillance: comparison with CT angiography. European Radiology, 2017, 27, 1787-1794.	4.5	20
52	Evolving treatment options for valve and aortic disease with bicuspid aortic valve. Annals of Translational Medicine, 2017, 5, 333-333.	1.7	0
53	Safety and technique of ferumoxytol administration for MRI. Magnetic Resonance in Medicine, 2016, 75, 2107-2111.	3.0	171
54	Isotropic 3D black blood MRI of abdominal aortic aneurysm wall and intraluminal thrombus. Magnetic Resonance Imaging, 2016, 34, 18-25.	1.8	35

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55	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
56	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
57	Prevalence and Significance of Incidentally Noted Dilation of the Ascending Aorta on Routine Chest Computed Tomography in Older Patients. <i>Journal of Computer Assisted Tomography</i> , 2015, 39, 109-111.	0.9	14
58	Vascular Inflammation in a Growing Iliac Artery Aneurysm. <i>Clinical Nuclear Medicine</i> , 2015, 40, e323-e324.	1.3	0
59	Four-dimensional magnetic resonance imaging-derived ascending aortic flow eccentricity and flow compression are linked to aneurysm morphology. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2015, 20, 582-588.	1.1	14
60	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
61	Extended 3D approach for quantification of abnormal ascending aortic flow. <i>Magnetic Resonance Imaging</i> , 2015, 33, 695-700.	1.8	17
62	Bicuspid Valve-Related Aortic Disease. <i>Academic Radiology</i> , 2015, 22, 690-696.	2.5	21
63	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
64	4D flow cardiovascular magnetic resonance consensus statement. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, 72.	3.3	642
65	Vascular Imaging With Ferumoxytol as a Contrast Agent. <i>American Journal of Roentgenology</i> , 2015, 205, W366-W373.	2.2	104
66	4D Flow MRI Applications for Aortic Disease. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2015, 23, 15-23.	1.1	58
67	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
68	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
69	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
70	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
71	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
72	Diastolic function assessed by cardiac MRI using longitudinal left ventricular fractional shortening. <i>Clinical Imaging</i> , 2014, 38, 666-668.	1.5	14

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73	Patient-specific finite element analysis of ascending thoracic aortic aneurysm. <i>Journal of Heart Valve Disease</i> , 2014, 23, 765-72.	0.5	11
74	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
75	Reproducibility of quantitative analysis of aortic 4D flow data. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, .	3.3	4
76	Evaluation of Marfan patients status post valve-sparing aortic root replacement with 4D flow. <i>Magnetic Resonance Imaging</i> , 2013, 31, 1479-1484.	1.8	27
77	Quantitative Assessment of Asymmetric Aortic Dilatation with Valve-related Aortic Disease. <i>Academic Radiology</i> , 2013, 20, 10-15.	2.5	15
78	Biomechanical Properties of Human Ascending Thoracic Aortic Aneurysms. <i>Annals of Thoracic Surgery</i> , 2013, 96, 50-58.	1.3	85
79	Clinical Applications of Aortic 4D Flow Imaging. <i>Current Cardiovascular Imaging Reports</i> , 2013, 6, 128-139.	0.6	6
80	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
81	Functional and molecular imaging techniques in aortic aneurysm disease. <i>Current Opinion in Cardiology</i> , 2013, 28, 609-618.	1.8	11
82	Cardiothoracic Magnetic Resonance Flow Imaging. <i>Journal of Thoracic Imaging</i> , 2013, 28, 217-230.	1.5	42
83	Incidental Aortic Valve Calcification on CT Scans. <i>Academic Radiology</i> , 2012, 19, 542-547.	2.5	14
84	Post-stenotic dilation: Evaluation of ascending aortic dilation with 4D flow MR imaging. <i>International Journal of Cardiology</i> , 2012, 156, e40-e42.	1.7	22
85	Imaging Biomarkers of Aortic Disease. <i>Journal of the American College of Cardiology</i> , 2012, 60, 356-357.	2.8	62
86	Improved Risk Assessment for Abdominal Aortic Aneurysm Rupture. <i>Journal of the American College of Cardiology</i> , 2011, 58, 2531-2532.	2.8	5
87	Arch Hypoplasia and Aneurysm After Aortic Coarctation Repair. <i>JACC: Cardiovascular Imaging</i> , 2011, 4, 685-686.	5.3	6
88	4D Flow CMR in Assessment of Valve-Related Ascending Aortic Disease. <i>JACC: Cardiovascular Imaging</i> , 2011, 4, 781-787.	5.3	231
89	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
90	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

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91	Clinical evaluation of aortic coarctation with 4D flow MR imaging. Journal of Magnetic Resonance Imaging, 2010, 31, 711-718.	3.4	137
92	Eccentric flow jets and elevated wall shear stress with bicuspid aortic valves. Journal of Cardiovascular Magnetic Resonance, 2010, 12, .	3.3	1
93	Four-Dimensional Flow Magnetic Resonance Imaging With Wall Shear Stress Analysis Before and After Repair of Aortopulmonary Fistula. Circulation: Cardiovascular Imaging, 2010, 3, 766-768.	2.6	10
94	Aortopathy in Bicuspid Aortic Valve Disease: Is It Really Congenital?. Radiology, 2010, 256, 1015-1016.	7.3	3
95	Bicuspid Aortic Valve: Four-dimensional MR Evaluation of Ascending Aortic Systolic Flow Patterns. Radiology, 2010, 255, 53-61.	7.3	364
96	Evaluation of Bicuspid Aortic Valve and Aortic Coarctation With 4D Flow Magnetic Resonance Imaging. Circulation, 2008, 117, 2818-2819.	1.6	64
97	Four-Dimensional Magnetic Resonance Velocity Mapping in a Healthy Volunteer With Pseudocoarctation of the Thoracic Aorta. Circulation, 2004, 109, 3221-3222.	1.6	7
98	Time-Resolved 3-Dimensional Velocity Mapping in the Thoracic Aorta. Journal of Computer Assisted Tomography, 2004, 28, 459-468.	0.9	183
99	Everyday amnesia. The curious effects of a common drug. The Pharos of Alpha Omega Alpha-honor Medical Society Alpha Omega Alpha, 2004, 67, 18-21.	0.1	0
100	A visual approach for the accurate determination of echocardiographic left ventricular ejection fraction by medical students. Journal of the American Society of Echocardiography, 2003, 16, 824-831.	2.8	49
101	Pain and Forgetting. JAMA - Journal of the American Medical Association, 2003, 289, 617.	7.4	1