

Ashraf Hamdan

List of Publications by Year in descending order

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79
papers

1,579
citations

331670

21
h-index

330143

37
g-index

83
all docs

83
docs citations

83
times ranked

2369
citing authors

#	ARTICLE	IF	CITATIONS
1	Deformation Dynamics and Mechanical Properties of the Aortic Annulus by 4-Dimensional Computed Tomography. <i>Journal of the American College of Cardiology</i> , 2012, 59, 119-127.	2.8	176
2	Inverse Relationship Between Membranous Septal Length and the Risk of Atrioventricular Block in Patients Undergoing Transcatheter Aortic Valve Implantation. <i>JACC: Cardiovascular Interventions</i> , 2015, 8, 1218-1228.	2.9	170
3	A Prospective Study for Comparison of MR and CT Imaging for Detection of Coronary Artery Stenosis. <i>JACC: Cardiovascular Imaging</i> , 2011, 4, 50-61.	5.3	99
4	Diagnosis of obstructive coronary artery disease using computed tomography angiography in patients with stable chest pain depending on clinical probability and in clinically important subgroups: meta-analysis of individual patient data. <i>BMJ: British Medical Journal</i> , 2019, 365, l1945.	2.3	99
5	Additional Value of Myocardial Perfusion Imaging During Dobutamine Stress Magnetic Resonance for the Assessment of Coronary Artery Disease. <i>Circulation: Cardiovascular Imaging</i> , 2008, 1, 122-130.	2.6	65
6	Long-Term Prognostic Value of Dobutamine Stress CMR. <i>JACC: Cardiovascular Imaging</i> , 2011, 4, 161-172.	5.3	62
7	Magnetic Resonance Imaging Versus Computed Tomography for Characterization of Pulmonary Vein Morphology Before Radiofrequency Catheter Ablation of Atrial Fibrillation. <i>American Journal of Cardiology</i> , 2009, 104, 1540-1546.	1.6	50
8	Tissue Doppler Imaging in Patients with Advanced Heart Failure: Relation to Functional Class and Prognosis. <i>Journal of Heart and Lung Transplantation</i> , 2006, 25, 214-218.	0.6	49
9	Coronary CT angiography for the detection of coronary artery stenosis in patients referred for transcatheter aortic valve replacement. <i>Journal of Cardiovascular Computed Tomography</i> , 2015, 9, 31-41.	1.3	49
10	Fluid-Structure Interaction Model of Aortic Valve With Porcine-Specific Collagen Fiber Alignment in the Cusps. <i>Journal of Biomechanical Engineering</i> , 2013, 135, 101001-6.	1.3	40
11	Progressive aortic valve calcification: Three-dimensional visualization and biomechanical analysis. <i>Journal of Biomechanics</i> , 2015, 48, 489-497.	2.1	39
12	Biomechanical modeling of transcatheter aortic valve replacement in a stenotic bicuspid aortic valve: deployments and paravalvular leakage. <i>Medical and Biological Engineering and Computing</i> , 2019, 57, 2129-2143.	2.8	36
13	Imaging of vulnerable coronary artery plaques. <i>Catheterization and Cardiovascular Interventions</i> , 2007, 70, 66-75.	1.7	32
14	Fluid-structure interaction modeling of calcific aortic valve disease using patient-specific three-dimensional calcification scans. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 1683-1694.	2.8	31
15	Regional right ventricular function and timing of contraction in healthy volunteers evaluated by strain-encoded MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 1379-1385.	3.4	29
16	Myocarditis following COVID-19 vaccination: magnetic resonance imaging study. <i>European Heart Journal Cardiovascular Imaging</i> , 2022, 23, 1075-1082.	1.2	29
17	Fluid-Structure Interaction Models of Bicuspid Aortic Valves: The Effects of Nonfused Cusp Angles. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	1.3	27
18	Short membranous septum length in bicuspid aortic valve stenosis increases the risk of conduction disturbances. <i>Journal of Cardiovascular Computed Tomography</i> , 2021, 15, 339-347.	1.3	24

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19	Influence of Left Ventricular Hypertrophy and Geometry on Diagnostic Accuracy of Wall Motion and Perfusion Magnetic Resonance During Dobutamine Stress. <i>Circulation: Cardiovascular Imaging</i> , 2010, 3, 507-514.	2.6	23
20	Clinical impact of diabetes mellitus in patients undergoing transcatheter aortic valve replacement. <i>Cardiovascular Diabetology</i> , 2015, 14, 131.	6.8	23
21	Sex differences in aortic root and vascular anatomy in patients undergoing transcatheter aortic valve implantation: A computed-tomographic study. <i>Journal of Cardiovascular Computed Tomography</i> , 2017, 11, 87-96.	1.3	23
22	The significance of pulmonary arterial hypertension pre- and post-transfemoral aortic valve implantation for severe aortic stenosis. <i>Journal of Cardiology</i> , 2015, 65, 337-342.	1.9	20
23	The role of cardiac computed tomography in infants with congenital heart disease. <i>Israel Medical Association Journal</i> , 2014, 16, 147-52.	0.1	20
24	Clinical severe hepatic venoocclusive disease during induction treatment of acute monoblastic leukemia managed with defibrotide. <i>American Journal of Hematology</i> , 2002, 69, 281-284.	4.1	17
25	Improved Quantitative Assessment of Left Ventricular Volumes Using TGrE Approach After Application of Extracellular Contrast Agent at 3 Tesla. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2007, 9, 845-853.	3.3	17
26	Comparison of acute kidney injury classifications in patients undergoing transcatheter aortic valve implantation: Predictors and long-term outcomes. <i>Catheterization and Cardiovascular Interventions</i> , 2016, 87, 523-531.	1.7	17
27	Long-Term Outcomes of 560 Consecutive Patients Treated With Transcatheter Aortic Valve Implantation and Propensity Score-Matched Analysis of Early- Versus New-Generation Valves. <i>American Journal of Cardiology</i> , 2017, 119, 1821-1831.	1.6	17
28	Vascular complications in steroid treated patients undergoing transfemoral aortic valve implantation. <i>Catheterization and Cardiovascular Interventions</i> , 2016, 87, 341-346.	1.7	15
29	Single-breathhold four-dimensional assessment of left ventricular volumes and function using kâ€BLAST after application of extracellular contrast agent at 3 Tesla. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 27, 1028-1036.	3.4	14
30	A Case Series of Myocarditis Following Third (Booster) Dose of COVID-19 Vaccination: Magnetic Resonance Imaging Study. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 839090.	2.4	14
31	The Israel Nationwide Heart Failure Survey: Sex Differences in Early and Late Mortality for Hospitalized Heart Failure Patients. <i>Journal of Cardiac Failure</i> , 2014, 20, 193-198.	1.7	13
32	Natural History and Disease Progression of Early Cardiac Amyloidosis Evaluated by Echocardiography. <i>American Journal of Cardiology</i> , 2020, 133, 126-133.	1.6	13
33	Imaging analysis of collagen fiber networks in cusps of porcine aortic valves: effect of their local distribution and alignment on valve functionality. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 1002-1008.	1.6	12
34	Assessment of Paravalvular Leak Severity and Thrombogenic Potential in Transcatheter Bicuspid Aortic Valve Replacements Using Patient-Specific Computational Modeling. <i>Journal of Cardiovascular Translational Research</i> , 2022, 15, 834-844.	2.4	12
35	Left Ventricular Cardiac Hemangioma Presenting With Atypical Chest Pain. <i>Circulation</i> , 2008, 117, 2958-2960.	1.6	10
36	The clinical value of the endocarditis team: insights from before and after guidelines implementation strategy. <i>Infection</i> , 2022, 50, 57-64.	4.7	10

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37	DEtection of Proxlmal Coronary stenosis in the work-up for Transcatheter aortic valve implantation using CTA (from the DEPICT CTA collaboration). <i>European Radiology</i> , 2022, 32, 143-151.	4.5	10
38	Pheochromocytoma: unusual presentation of a rare disease. <i>Israel Medical Association Journal</i> , 2002, 4, 827-8.	0.1	10
39	A New Growth Model for Aortic Valve Calcification. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	1.3	8
40	Myocardial extracellular volume quantification by computed tomography predicts outcomes in patients with severe aortic stenosis. <i>PLoS ONE</i> , 2021, 16, e0248306.	2.5	8
41	Epicardial fat and the risk of atrial tachy-arrhythmia recurrence post pulmonary vein isolation: a computed tomography study. <i>International Journal of Cardiovascular Imaging</i> , 2021, 37, 2785-2790.	1.5	8
42	Differences in the characteristics and contemporary cardiac outcomes of patients with light-chain versus transthyretin cardiac amyloidosis. <i>PLoS ONE</i> , 2021, 16, e0255487.	2.5	8
43	Fetal liver T2* values: Defining a standardized scale. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 1342-1345.	3.4	7
44	Comparison of Coronary Magnetic Resonance and Computed Tomography Angiography for Prediction of Cardiovascular Events. <i>JACC: Cardiovascular Imaging</i> , 2014, 7, 1063-1065.	5.3	7
45	Structural Responses of Integrated Parametric Aortic Valve in an Electro-Mechanical Full Heart Model. <i>Annals of Biomedical Engineering</i> , 2021, 49, 441-454.	2.5	7
46	Tissue Characterization of a Suspected Aortic Valve Fibroelastoma With Cardiac Magnetic Resonance Imaging. <i>Circulation: Cardiovascular Imaging</i> , 2008, 1, 87-88.	2.6	6
47	Effect of Intramural Course of Coronary Arteries Assessed by Computed Tomography Angiography in Patients With Hypertrophic Cardiomyopathy. <i>American Journal of Cardiology</i> , 2019, 124, 1279-1285.	1.6	6
48	Iliofemoral artery lumen volume assessment with three dimensional multi-detector computed tomography and vascular complication risk in transfemoral transcatheter aortic valve replacement. <i>Journal of Cardiovascular Computed Tomography</i> , 2019, 13, 68-74.	1.3	6
49	Non-Valvular Findings before Trans-Catheter Aortic Valve Implantation and their Impact on the Procedure. <i>Israel Medical Association Journal</i> , 2015, 17, 764-7.	0.1	6
50	Cardiac CT for intra-cardiac thrombus detection in embolic stroke of undetermined source (ESUS). <i>European Stroke Journal</i> , 2022, 7, 212-220.	5.5	6
51	Mineralocorticoid receptor antagonist use in eligible patients following acute myocardial infarction: Real world data from the Acute Coronary Syndrome Israeli Surveys: 2004â€”2010. <i>International Journal of Cardiology</i> , 2013, 168, 3971-3976.	1.7	5
52	Prevalence and morphology of myocardial crypts in normal and hypertrophied myocardium by computed tomography. <i>International Journal of Cardiovascular Imaging</i> , 2019, 35, 1347-1355.	1.5	5
53	TAVI in bicuspid aortic valve stenosis. <i>International Journal of Cardiology</i> , 2020, 298, 83-84.	1.7	5
54	Coronary CTA-Based CAD-RADS Reporting System and the PROMISE to Predict Cardiac Events. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 1546-1548.	5.3	5

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55	Progressive Calcification in Bicuspid Valves: A Coupled Hemodynamics and Multiscale Structural Computations. <i>Annals of Biomedical Engineering</i> , 2021, 49, 3310-3322.	2.5	5
56	Validating In Silico and In Vitro Patient-Specific Structural and Flow Models with Transcatheter Bicuspid Aortic Valve Replacement Procedure. <i>Cardiovascular Engineering and Technology</i> , 2022, 13, 840-856.	1.6	5
57	Modalities to assess myocardial viability in the modern cardiology era. <i>Coronary Artery Disease</i> , 2006, 17, 567-576.	0.7	4
58	Age-Dependent Effect of Left Ventricular Ejection Fraction on Long-Term Mortality in Patients With Heart Failure (from the Heart Failure Survey in ISrael). <i>American Journal of Cardiology</i> , 2013, 112, 1901-1906.	1.6	4
59	A rare case of Takotsubo syndrome in a patient 5 months after heart transplantation. <i>ESC Heart Failure</i> , 2020, 7, 354-357.	3.1	4
60	Long Term Outcomes of Patients Treated With Transcatheter Aortic Valve Implantation. <i>American Journal of Cardiology</i> , 2021, 141, 72-78.	1.6	4
61	A computational framework for post-TAVR cardiac conduction abnormality (CCA) risk assessment in patient-specific anatomy. <i>Artificial Organs</i> , 2022, 46, 1305-1317.	1.9	4
62	Transcatheter aortic valve implantation for bicuspid aortic valve stenosis. <i>Catheterization and Cardiovascular Interventions</i> , 2015, 86, 331-333.	1.7	3
63	Extrinsic compression of the left main coronary artery by a contained aortic annular rupture following trans-catheter aortic valve implantation. <i>Cardiovascular Revascularization Medicine</i> , 2015, 16, 313-316.	0.8	3
64	Increased Rate of New-onset Left Bundle Branch Block in Patients With Bicuspid Aortic Stenosis Undergoing Transcatheter Aortic Valve Implantation (From a National Registry). <i>American Journal of Cardiology</i> , 2021, 156, 101-107.	1.6	3
65	Five-Year Outcomes of Patients With Mitral Structural Valve Deterioration Treated With Transcatheter Valve in Valve Implantation – A Single Center Prospective Registry. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 883242.	2.4	3
66	Unusual presentation of takayasu arteritis. <i>International Journal of Cardiology</i> , 2007, 119, 249-250.	1.7	2
67	Applicability and accuracy of pretest probability calculations implemented in the NICE clinical guideline for decision making about imaging in patients with chest pain of recent onset. <i>European Radiology</i> , 2018, 28, 4006-4017.	4.5	2
68	Diffused coronary involvement in Takayasu arteritis with concomitant malignancy. <i>Clinical Rheumatology</i> , 2022, 41, 921-928.	2.2	2
69	Impact of Valve Size on Paravalvular Leak and Valve Hemodynamics in Patients With Borderline Size Aortic Valve Annulus. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 847259.	2.4	2
70	Heartmate 3 as a bridge to heart transplantation in a patient with congenitally corrected transposition of the great arteries: a case report. <i>Journal of Cardiothoracic Surgery</i> , 2022, 17, 54.	1.1	2
71	Tricuspid Structural Valve Deterioration Treated with a Transcatheter Valve-in-Valve Implantation: A Single-Center Prospective Registry. <i>Journal of Clinical Medicine</i> , 2022, 11, 2667.	2.4	2
72	Differentiating Primary From Secondary Hypertrophy Based on the Coronary Lumen Volume to Myocardial Mass Relationship. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 1926-1928.	5.3	1

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73	NOVEL BIOMARKERS OF CORONARY ARTERY CALCIUM INCIDENCE OR PROGRESSION: INSIGHTS FROM THE DALLAS HEART STUDY. <i>Journal of the American College of Cardiology</i> , 2019, 73, 1783.	2.8	1
74	Relation of Serum Albumin Levels to Myocardial Extracellular Volume in Patients With Severe Aortic Stenosis. <i>American Journal of Cardiology</i> , 2022, 163, 71-76.	1.6	1
75	The effect of the fibrocalcific pathological process on aortic valve stenosis in female patients: a finite element study. <i>Biomedical Physics and Engineering Express</i> , 2022, 8, 025017.	1.2	1
76	Lupus myocarditis in an octogenarian patient—a case report. <i>Oxford Medical Case Reports</i> , 2020, 2020, omaa094.	0.4	0
77	5 Year Outcomes of Patients With Aortic Structural Valve Deterioration Treated With Transcatheter Valve in Valve — A Single Center Prospective Registry. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 713341.	2.4	0
78	The Effect of Tafamidis on Circulating Endothelial Progenitor Cells in Patients with Transthyretin Cardiac Amyloidosis. <i>Cardiovascular Drugs and Therapy</i> , 2021, , 1.	2.6	0
79	Dobutamine stress MRI for the assessment of coronary artery disease: initial clinical experience in Israel. <i>Israel Medical Association Journal</i> , 2013, 15, 205-9.	0.1	0