Ru San Tan

List of Publications by Year
in descending order

271 papers	14,015 citations	34076 52 h-index	24232 110 g-index
286 all docs	286 docs citations	286 times ranked	13619 citing authors

#	Article	IF	Citations
1	Apixaban in Patients with Atrial Fibrillation. New England Journal of Medicine, 2011, 364, 806-817.	13.9	2,207
2	A deep convolutional neural network model to classify heartbeats. Computers in Biology and Medicine, 2017, 89, 389-396.	3.9	928
3	Arrhythmia detection using deep convolutional neural network with long duration ECG signals. Computers in Biology and Medicine, 2018, 102, 411-420.	3.9	555
4	Automated diagnosis of arrhythmia using combination of CNN and LSTM techniques with variable length heart beats. Computers in Biology and Medicine, 2018, 102, 278-287.	3.9	477
5	Integrated allelic, transcriptional, and phenomic dissection of the cardiac effects of titin truncations in health and disease. Science Translational Medicine, 2015, 7, 270ra6.	5.8	375
6	Prevalence and correlates of coronary microvascular dysfunction in heart failure with preserved ejection fraction: PROMIS-HFpEF. European Heart Journal, 2018, 39, 3439-3450.	1.0	375
7	Dabigatran Versus Warfarin. Stroke, 2013, 44, 1891-1896.	1.0	292
8	Classification of myocardial infarction with multi-lead ECG signals and deep CNN. Pattern Recognition Letters, 2019, 122, 23-30.	2.6	292
9	Application of stacked convolutional and long short-term memory network for accurate identification of CAD ECG signals. Computers in Biology and Medicine, 2018, 94, 19-26.	3.9	280
10	Analysis of the Impact of Early Surgery on In-Hospital Mortality of Native Valve Endocarditis. Circulation, 2010, 121, 1005-1013.	1.6	259
11	A new approach for arrhythmia classification using deep coded features and LSTM networks. Computer Methods and Programs in Biomedicine, 2019, 176, 121-133.	2.6	245
12	Automated detection of atrial fibrillation using long short-term memory network with RR interval signals. Computers in Biology and Medicine, 2018, 102, 327-335.	3.9	214
13	The Long-Term Multicenter Observational Study of Dabigatran Treatment in Patients With Atrial Fibrillation (RELY-ABLE) Study. Circulation, 2013, 128, 237-243.	1.6	195
14	Early Regenerative Capacity in the Porcine Heart. Circulation, 2018, 138, 2798-2808.	1.6	192
15	A new machine learning technique for an accurate diagnosis of coronary artery disease. Computer Methods and Programs in Biomedicine, 2019, 179, 104992.	2.6	192
16	Automated detection and localization of myocardial infarction using electrocardiogram: a comparative study of different leads. Knowledge-Based Systems, 2016, 99, 146-156.	4.0	190
17	Automated characterization and classification of coronary artery disease and myocardial infarction by decomposition of ECG signals: A comparative study. Information Sciences, 2017, 377, 17-29.	4.0	186
18	Myocardial Viability and Long-Term Outcomes in Ischemic Cardiomyopathy. New England Journal of Medicine, 2019, 381, 739-748.	13.9	186

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19	The electronic stethoscope. BioMedical Engineering OnLine, 2015, 14, 66.	1.3	180
20	Deep convolutional neural network for the automated diagnosis of congestive heart failure using ECG signals. Applied Intelligence, 2019, 49, 16-27.	3.3	180
21	An efficient compression of ECG signals using deep convolutional autoencoders. Cognitive Systems Research, 2018, 52, 198-211.	1.9	145
22	Rivaroxaban for Stroke Prevention in East Asian Patients From the ROCKET AF Trial. Stroke, 2014, 45, 1739-1747.	1.0	142
23	International reproducibility of single breathhold T2* MR for cardiac and liver iron assessment among five thalassemia centers. Journal of Magnetic Resonance Imaging, 2010, 32, 315-319.	1.9	139
24	Comprehensive electrocardiographic diagnosis based on deep learning. Artificial Intelligence in Medicine, 2020, 103, 101789.	3.8	137
25	Computer-aided diagnosis of atrial fibrillation based on ECG Signals: A review. Information Sciences, 2018, 467, 99-114.	4.0	134
26	Automated beat-wise arrhythmia diagnosis using modified U-net on extended electrocardiographic recordings with heterogeneous arrhythmia types. Computers in Biology and Medicine, 2019, 105, 92-101.	3.9	121
27	Proteomic Evaluation of the Comorbidity-Inflammation Paradigm in Heart Failure With Preserved Ejection Fraction. Circulation, 2020, 142, 2029-2044.	1.6	117
28	Convalescent COVID-19 patients are susceptible to endothelial dysfunction due to persistent immune activation. ELife, 2021, 10, .	2.8	113
29	An integrated index for detection of Sudden Cardiac Death using Discrete Wavelet Transform and nonlinear features. Knowledge-Based Systems, 2015, 83, 149-158.	4.0	111
30	Application of higher-order spectra for the characterization of Coronary artery disease using electrocardiogram signals. Biomedical Signal Processing and Control, 2017, 31, 31-43.	3.5	109
31	Effects of Sacubitril/Valsartan (LCZ696) on Natriuresis, Diuresis, Blood Pressures, and NT-proBNP in Salt-Sensitive Hypertension. Hypertension, 2017, 69, 32-41.	1.3	98
32	Classification of heart sound signals using a novel deep WaveNet model. Computer Methods and Programs in Biomedicine, 2020, 196, 105604.	2.6	96
33	High-Dose Daptomycin Therapy for Left-Sided Infective Endocarditis: a Prospective Study from the International Collaboration on Endocarditis. Antimicrobial Agents and Chemotherapy, 2013, 57, 6213-6222.	1.4	85
34	A novel automated diagnostic system for classification of myocardial infarction ECG signals using an optimal biorthogonal filter bank. Computers in Biology and Medicine, 2018, 102, 341-356.	3.9	85
35	Impact of Early Valve Surgery on Outcome of Staphylococcus aureus Prosthetic Valve Infective Endocarditis: Analysis in the International Collaboration of Endocarditisâ€"Prospective Cohort Study. Clinical Infectious Diseases, 2015, 60, 741-749.	2.9	84
36	Application of multiresolution analysis for automated detection of brain abnormality using MR images: A comparative study. Future Generation Computer Systems, 2019, 90, 359-367.	4.9	80

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37	Left ventricular regional wall curvedness and wall stress in patients with ischemic dilated cardiomyopathy. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H573-H584.	1.5	79
38	Computer-aided diagnosis of congestive heart failure using ECG signals â€" A review. Physica Medica, 2019, 62, 95-104.	0.4	79
39	Entropies for automated detection of coronary artery disease using ECG signals: A review. Biocybernetics and Biomedical Engineering, 2018, 38, 373-384.	3.3	77
40	Application of Patient-Specific Computational Fluid Dynamics in Coronary and Intra-Cardiac Flow Simulations: Challenges and Opportunities. Frontiers in Physiology, 2018, 9, 742.	1.3	77
41	Accurate deep neural network model to detect cardiac arrhythmia on more than 10,000 individual subject ECG records. Computer Methods and Programs in Biomedicine, 2020, 197, 105740.	2.6	72
42	Association between work-related features and coronary artery disease: A heterogeneous hybrid feature selection integrated with balancing approach. Pattern Recognition Letters, 2020, 133, 33-40.	2.6	72
43	Perspective on CFD studies of coronary artery disease lesions and hemodynamics: A review. International Journal for Numerical Methods in Biomedical Engineering, 2014, 30, 659-680.	1.0	69
44	Cardiovascular magnetic resonance reference ranges for the heart and aorta in Chinese at 3T. Journal of Cardiovascular Magnetic Resonance, 2016, 18, 21.	1.6	67
45	Computer-aided diagnosis of Myocardial Infarction using ultrasound images with DWT, GLCM and HOS methods: A comparative study. Computers in Biology and Medicine, 2015, 62, 86-93.	3.9	65
46	Automated diagnosis of congestive heart failure using dual tree complex wavelet transform and statistical features extracted from 2 s of ECG signals. Computers in Biology and Medicine, 2017, 83, 48-58.	3.9	65
47	Automated detection of coronary artery disease, myocardial infarction and congestive heart failure using GaborCNN model with ECG signals. Computers in Biology and Medicine, 2021, 134, 104457.	3.9	63
48	Explainable detection of myocardial infarction using deep learning models with Grad-CAM technique on ECG signals. Computers in Biology and Medicine, 2022, 146, 105550.	3.9	61
49	Right ventricular regional wall curvedness and area strain in patients with repaired tetralogy of Fallot. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H1306-H1316.	1.5	59
50	Numerical simulation of patient-specific left ventricular model with both mitral and aortic valves by FSI approach. Computer Methods and Programs in Biomedicine, 2014, 113, 474-482.	2.6	59
51	Automated heartbeat classification and detection of arrhythmia using optimal orthogonal wavelet filters. Informatics in Medicine Unlocked, 2019, 16, 100221.	1.9	59
52	Therapeutic angiogenesis by transplantation of human embryonic stem cell-derived CD133^{+} endothelial progenitor cells for cardiac repair. Regenerative Medicine, 2010, 5, 231-244.	0.8	58
53	Validation of a rapid semi-automated method to assess left atrial longitudinal phasic strains on cine cardiovascular magnetic resonance imaging. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 71.	1.6	57
54	Coronary artery disease detection using artificial intelligence techniques: A survey of trends, geographical differences and diagnostic features 1991â€"2020. Computers in Biology and Medicine, 2021, 128, 104095.	3.9	55

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55	Application of empirical mode decomposition (EMD) for automated identification of congestive heart failure using heart rate signals. Neural Computing and Applications, 2017, 28, 3073-3094.	3.2	53
56	1D-CADCapsNet: One dimensional deep capsule networks for coronary artery disease detection using ECG signals. Physica Medica, 2020, 70, 39-48.	0.4	53
57	Reactive Oxygen Species Scavenging Nanomedicine for the Treatment of Ischemic Heart Disease. Advanced Materials, 2022, 34, e2202169.	11.1	49
58	Importance of Angina in Patients With Coronary Disease, Heart Failure, and LeftÂVentricular Systolic Dysfunction. Journal of the American College of Cardiology, 2015, 66, 2092-2100.	1.2	48
59	Normal Values of Myocardial Deformation Assessed by Cardiovascular Magnetic Resonance Feature Tracking in a Healthy Chinese Population: A Multicenter Study. Frontiers in Physiology, 2018, 9, 1181.	1.3	48
60	Impaired Cardiovascular Magnetic Resonanceâ€"Derived Rapid Semiautomated Right Atrial Longitudinal Strain Is Associated With Decompensated Hemodynamics in Pulmonary Arterial Hypertension. Circulation: Cardiovascular Imaging, 2019, 12, e008582.	1.3	48
61	Validation of a novel noninvasive cardiac index of left ventricular contractility in patients. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H2764-H2772.	1.5	45
62	Simplified Models of Non-Invasive Fractional Flow Reserve Based on CT Images. PLoS ONE, 2016, 11, e0153070.	1.1	44
63	Coronary Artery Segmentation by Deep Learning Neural Networks on Computed Tomographic Coronary Angiographic Images. , 2018, 2018, 608-611.		43
64	Long-term Prognostic Value of Cardiac MRI Left Atrial Strain in ST-Segment Elevation Myocardial Infarction. Radiology, 2020, 296, 299-309.	3.6	43
65	Accurate detection of myocardial infarction using non linear features with ECG signals. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 3227-3244.	3.3	42
66	Automated arrhythmia detection with homeomorphically irreducible tree technique using more than 10,000 individual subject ECG records. Information Sciences, 2021, 575, 323-337.	4.0	41
67	Automated detection of shockable ECG signals: A review. Information Sciences, 2021, 571, 580-604.	4.0	40
68	Improved angiogenic response in pig heart following ischaemic injury using human skeletal myoblast simultaneously expressing VEGF165and angiopoietin-1. European Journal of Heart Failure, 2007, 9, 15-22.	2.9	39
69	Automated characterization of cardiovascular diseases using relative wavelet nonlinear features extracted from ECG signals. Computer Methods and Programs in Biomedicine, 2018, 161, 133-143.	2.6	39
70	Application of photoplethysmography signals for healthcare systems: An in-depth review. Computer Methods and Programs in Biomedicine, 2022, 216, 106677.	2.6	39
71	Multi-center transferability of a breath-hold T2 technique for myocardial iron assessment. Journal of Cardiovascular Magnetic Resonance, 2008, 10, 11.	1.6	38
72	Hemodynamic analysis of patientâ€specific coronary artery tree. International Journal for Numerical Methods in Biomedical Engineering, 2015, 31, e02708.	1.0	38

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73	Cardiac MRI based numerical modeling of left ventricular fluid dynamics with mitral valve incorporated. Journal of Biomechanics, 2016, 49, 1199-1205.	0.9	38
74	Computer aided diagnosis of Coronary Artery Disease, Myocardial Infarction and carotid atherosclerosis using ultrasound images: A review. Physica Medica, 2017, 33, 1-15.	0.4	38
75	Gadobutrol-Enhanced Cardiac Magnetic Resonance Imaging for Detection of Coronary Artery Disease. Journal of the American College of Cardiology, 2020, 76, 1536-1547.	1.2	38
76	Associations between Skeletal Muscle and Myocardium in Aging: A Syndrome of â€œCardioâ€Sarcopeniaâ€?. Journal of the American Geriatrics Society, 2019, 67, 2568-2573.	1.3	36
77	Global weighted LBP based entropy features for the assessment of pulmonary hypertension. Pattern Recognition Letters, 2019, 125, 35-41.	2.6	36
78	Automated detection of severity of hypertension ECG signals using an optimal bi-orthogonal wavelet filter bank. Computers in Biology and Medicine, 2020, 123, 103924.	3.9	36
79	Intracardiac 4D Flow MRI in Congenital Heart Disease: Recommendations on Behalf of the ISMRM Flow & Motion Study Group. Journal of Magnetic Resonance Imaging, 2019, 50, spcone.	1.9	35
80	Automated pre-screening of arrhythmia using hybrid combination of Fourierâ€"Bessel expansion and LSTM. Computers in Biology and Medicine, 2020, 120, 103753.	3.9	35
81	Automated classification of attention deficit hyperactivity disorder and conduct disorder using entropy features with ECG signals. Computers in Biology and Medicine, 2022, 140, 105120.	3.9	35
82	Effects of Surgical Ventricular Restoration on Left Ventricular Contractility Assessed by a Novel Contractility Index in Patients With Ischemic Cardiomyopathy. American Journal of Cardiology, 2009, 103, 674-679.	0.7	33
83	Reduced valve replacement surgery and complication rate in Staphylococcus aureus endocarditis patients receiving acetyl-salicylic acid. Journal of Infection, 2009, 58, 332-338.	1.7	33
84	Automated detection of shockable and non-shockable arrhythmia using novel wavelet-based ECG features. Computers in Biology and Medicine, 2019, 115, 103446.	3.9	33
85	Review of Deep Learning-Based Atrial Fibrillation Detection Studies. International Journal of Environmental Research and Public Health, 2021, 18, 11302.	1.2	33
86	Three-Dimensional Tricuspid Annular Motion Analysis from Cardiac Magnetic Resonance Feature-Tracking. Annals of Biomedical Engineering, 2016, 44, 3522-3538.	1.3	32
87	Intracardiac 4D Flow MRI in Congenital Heart Disease: Recommendations on Behalf of the ISMRM Flow & Motion Study Group. Journal of Magnetic Resonance Imaging, 2019, 50, 677-681.	1.9	32
88	A computational intelligence tool for the detection of hypertension using empirical mode decomposition. Computers in Biology and Medicine, 2020, 118, 103630.	3.9	32
89	Disproportionate left atrial myopathy in heart failure with preserved ejection fraction among participants of the PROMIS-HFpEF study. Scientific Reports, 2021, 11, 4885.	1.6	31
90	Application of Petersen graph pattern technique for automated detection of heart valve diseases with PCG signals. Information Sciences, 2021, 565, 91-104.	4.0	31

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91	Automated diagnostic tool for hypertension using convolutional neural network. Computers in Biology and Medicine, 2020, 126, 103999.	3.9	30
92	Heart rate variability for medical decision support systems: A review. Computers in Biology and Medicine, 2022, 145, 105407.	3.9	30
93	A curvature-based approach for left ventricular shape analysis from cardiac magnetic resonance imaging. Medical and Biological Engineering and Computing, 2009, 47, 313-322.	1.6	29
94	Correlation between clinical outcomes and appropriateness grading for referral to myocardial perfusion imaging for preoperative evaluation prior to non-cardiac surgery. Journal of Nuclear Cardiology, 2012, 19, 277-284.	1.4	29
95	Metabolomic profile of arterial stiffness in aged adults. Diabetes and Vascular Disease Research, 2018, 15, 74-80.	0.9	29
96	Angiopoietin-1 for myocardial angiogenesis: A comparison between delivery strategies. European Journal of Heart Failure, 2007, 9, 458-465.	2.9	28
97	A geometrical approach for evaluating left ventricular remodeling in myocardial infarct patients. Computer Methods and Programs in Biomedicine, 2012, 108, 500-510.	2.6	28
98	Thymosin β4 increases cardiac cell proliferation, cell engraftment, and the reparative potency of human induced-pluripotent stem cell-derived cardiomyocytes in a porcine model of acute myocardial infarction. Theranostics, 2021, 11, 7879-7895.	4.6	28
99	Automated Detection of Hypertension Using Physiological Signals: A Review. International Journal of Environmental Research and Public Health, 2021, 18, 5838.	1.2	28
100	Automated quantitative assessment of cardiovascular magnetic resonance-derived atrioventricular junction velocities. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H1923-H1935.	1.5	27
101	Detection of shockable ventricular arrhythmia using optimal orthogonal wavelet filters. Neural Computing and Applications, 2020, 32, 15869-15884.	3.2	27
102	Evaluation of the American College of Cardiology Foundation/American Society of Nuclear Cardiology appropriateness criteria for SPECT myocardial perfusion imaging in an Asian tertiary cardiac center. Journal of Nuclear Cardiology, 2011, 18, 324-330.	1.4	26
103	Hybrid genetic–discretized algorithm to handle data uncertainty in diagnosing stenosis of coronary arteries. Expert Systems, 2022, 39, .	2.9	26
104	Antithrombotic treatment for stroke prevention in atrial fibrillation: The Asian agenda. International Journal of Cardiology, 2015, 191, 244-253.	0.8	25
105	Automated Identification of Infarcted Myocardium Tissue Characterization Using Ultrasound Images: A Review. IEEE Reviews in Biomedical Engineering, 2015, 8, 86-97.	13.1	25
106	RF-CNN-F: random forest with convolutional neural network features for coronary artery disease diagnosis based on cardiac magnetic resonance. Scientific Reports, 2022, 12, .	1.6	25
107	Dissecting Clinical and Metabolomics Associations of Left Atrial Phasic Function by Cardiac Magnetic Resonance Feature Tracking. Scientific Reports, 2018, 8, 8138.	1.6	24
108	Exploring deep features and ECG attributes to detect cardiac rhythm classes. Knowledge-Based Systems, 2021, 232, 107473.	4.0	24

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109	Fast long-axis strain: a simple, automatic approach for assessing left ventricular longitudinal function with cine cardiovascular magnetic resonance. European Radiology, 2020, 30, 3672-3683.	2.3	23
110	Infective Endocarditis in Patients on Chronic Hemodialysis. Journal of the American College of Cardiology, 2021, 77, 1629-1640.	1.2	23
111	Automatic Localization of the Left Ventricle from Cardiac Cine Magnetic Resonance Imaging: A New Spectrum-Based Computer-Aided Tool. PLoS ONE, 2014, 9, e92382.	1.1	22
112	Model uncertainty quantification for diagnosis of each main coronary artery stenosis. Soft Computing, 2020, 24, 10149-10160.	2.1	22
113	An Accurate Multiple Sclerosis Detection Model Based on Exemplar Multiple Parameters Local Phase Quantization: ExMPLPQ. Applied Sciences (Switzerland), 2022, 12, 4920.	1.3	22
114	The effects of apixaban on hospitalizations in patients with different types of atrial fibrillation: insights from the AVERROES trial. European Heart Journal, 2013, 34, 2752-2759.	1.0	21
115	Data mining framework for identification of myocardial infarction stages in ultrasound: A hybrid feature extraction paradigm (PART 2). Computers in Biology and Medicine, 2016, 71, 241-251.	3.9	21
116	Influence of Sex on Platelet Reactivity in Response to Aspirin. Journal of the American Heart Association, 2020, 9, e014726.	1.6	21
117	Numerical Simulation and Clinical Implications of Stenosis in Coronary Blood Flow. BioMed Research International, 2014, 2014, 1-10.	0.9	19
118	Clinical characteristics and outcomes of patients with and without diabetes in the Surgical Treatment for Ischemic Heart Failure (<scp>STICH</scp>) trial. European Journal of Heart Failure, 2015, 17, 725-734.	2.9	19
119	Imaging 4D morphology and dynamics of mitral annulus in humans using cardiac cine MR feature tracking. Scientific Reports, 2018, 8, 81.	1.6	19
120	Fragmented QRS complexes predict right ventricular dysfunction and outflow tract aneurysms in patients with repaired tetralogy of Fallot. International Journal of Cardiology, 2013, 167, 1366-1372.	0.8	18
121	Myocardial contractile dysfunction associated with increased 3-month and 1-year mortality in hospitalized patients with heart failure and preserved ejection fraction. International Journal of Cardiology, 2013, 168, 1975-1983.	0.8	18
122	Application of nonlinear methods to discriminate fractionated electrograms in paroxysmal versus persistent atrial fibrillation. Computer Methods and Programs in Biomedicine, 2019, 175, 163-178.	2.6	18
123	Automated COVID-19 and Heart Failure Detection Using DNA Pattern Technique with Cough Sounds. Diagnostics, 2021, 11, 1962.	1.3	18
124	Endothelial function is associated with myocardial diastolic function in women with systemic lupus erythematosus. Rheumatology International, 2014, 34, 1281-1285.	1.5	17
125	A Population-wide study of electrocardiographic (ECG) norms and the effect of demographic and anthropometric factors on selected ECG characteristics in young, Southeast Asian males—results from the Singapore Armed Forces ECG (SAFE) study. Annals of Noninvasive Electrocardiology, 2019, 24, e12634.	0.5	17
126	Numerical Modeling of Intraventricular Flow during Diastole after Implantation of BMHV. PLoS ONE, 2015, 10, e0126315.	1.1	17

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127	Cognitive impairment in Asian patients with heart failure: prevalence, biomarkers, clinical correlates, and outcomes. European Journal of Heart Failure, 2019, 21, 688-690.	2.9	16
128	Attention-based 3D CNN with residual connections for efficient ECG-based COVID-19 detection. Computers in Biology and Medicine, 2022, 143, 105335.	3.9	16
129	RLMD-PA: A Reinforcement Learning-Based Myocarditis Diagnosis Combined with a Population-Based Algorithm for Pretraining Weights. Contrast Media and Molecular Imaging, 2022, 2022, 1-15.	0.4	16
130	Cardiac magnetic resonance T1 and extracellular volume mapping with motion correction and co-registration based on fast elastic image registration. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2018, 31, 115-129.	1.1	15
131	Galectinâ€3 as a candidate upstream biomarker for quantifying risks of myocardial ageing. ESC Heart Failure, 2019, 6, 1068-1076.	1.4	15
132	Ventricular flow analysis and its association with exertional capacity in repaired tetralogy of Fallot: 4D flow cardiovascular magnetic resonance study. Journal of Cardiovascular Magnetic Resonance, 2022, 24, 4.	1.6	15
133	An integrated index for automated detection of infarcted myocardium from cross-sectional echocardiograms using texton-based features (Part 1). Computers in Biology and Medicine, 2016, 71, 231-240.	3.9	14
134	Cardiac image segmentation by random walks with dynamic shape constraint. IET Computer Vision, 2016, 10, 79-86.	1.3	14
135	Advanced analyses of computed tomography coronary angiography can help discriminate ischemic lesions. International Journal of Cardiology, 2018, 267, 208-214.	0.8	14
136	The association between blood pressure and long-term outcomes of patients with ischaemic cardiomyopathy with and without surgical revascularization: an analysis of the STICH trial. European Heart Journal, 2018, 39, 3464-3471.	1.0	14
137	Left Ventricular Wall Stress Is Sensitive Marker of Hypertrophic Cardiomyopathy With Preserved Ejection Fraction. Frontiers in Physiology, 2018, 9, 250.	1.3	14
138	Cardiovascular magnetic resonanceâ€assessed fast global longitudinal strain parameters add diagnostic and prognostic insights in right ventricular volume and pressure loading disease conditions. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 38.	1.6	14
139	Recent Trends in Artificial Intelligence-Assisted Coronary Atherosclerotic Plaque Characterization. International Journal of Environmental Research and Public Health, 2021, 18, 10003.	1.2	14
140	Myoblast-based cardiac repair: Xenomyoblast versus allomyoblast transplantation. Journal of Thoracic and Cardiovascular Surgery, 2007, 134, 1332-1339.e2.	0.4	13
141	Automatic 4D Reconstruction of Patient-Specific Cardiac Mesh with 1-to-1 Vertex Correspondence from Segmented Contours Lines. PLoS ONE, 2014, 9, e93747.	1.1	13
142	Patient-specific blood flows and vortex formations in patients with hypertrophic cardiomyopathy using computational fluid dynamics. , 2014, , .		13
143	Cardiac metabolic modulation upon lowâ€carbohydrate lowâ€protein ketogenic diet in diabetic rats studied in vivo using hyperpolarized13C pyruvate, butyrate and acetoacetate probes. Diabetes, Obesity and Metabolism, 2019, 21, 949-960.	2.2	13
144	Cardiac inflammatory myofibroblastic tumor as a rare cause of aortic regurgitation: A case report. Journal of Thoracic and Cardiovascular Surgery, 2006, 132, 150-151.	0.4	12

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145	Stroke Prevention in Atrial Fibrillation: Understanding the New Oral Anticoagulants Dabigatran, Rivaroxaban, and Apixaban. Thrombosis, 2012, 2012, 1-10.	1.4	12
146	Regional ejection fraction and regional area strain for left ventricular function assessment in male patients after first-time myocardial infarction. Journal of the Royal Society Interface, 2015, 12, 20150006.	1.5	12
147	Combined diagnostic performance of coronary computed tomography angiography and computed tomography derived fractional flow reserve for the evaluation of myocardial ischemia: A meta-analysis. International Journal of Cardiology, 2017, 236, 100-106.	0.8	12
148	SHOCKABLE VERSUS NONSHOCKABLE LIFE-THREATENING VENTRICULAR ARRHYTHMIAS USING DWT AND NONLINEAR FEATURES OF ECG SIGNALS. Journal of Mechanics in Medicine and Biology, 2017, 17, 1740004.	0.3	12
149	Quantification of Biventricular Strains in Heart Failure With Preserved Ejection Fraction Patient Using Hyperelastic Warping Method. Frontiers in Physiology, 2018, 9, 1295.	1.3	12
150	Amino acid differences between diabetic older adults and non-diabetic older adults and their associations with cardiovascular function. Journal of Molecular and Cellular Cardiology, 2021, 158, 63-71.	0.9	12
151	Fast Marching and Runge–Kutta Based Method for Centreline Extraction of Right Coronary Artery in Human Patients. Cardiovascular Engineering and Technology, 2016, 7, 159-169.	0.7	11
152	AUTOMATED IDENTIFICATION OF CORONARY ARTERY DISEASE FROM SHORT-TERM 12 LEAD ELECTROCARDIOGRAM SIGNALS BY USING WAVELET PACKET DECOMPOSITION AND COMMON SPATIAL PATTERN TECHNIQUES. Journal of Mechanics in Medicine and Biology, 2017, 17, 1740007.	0.3	11
153	An accurate valvular heart disorders detection model based on a new dual symmetric tree pattern using stethoscope sounds. Computers in Biology and Medicine, 2022, 146, 105599.	3.9	11
154	Assessment of left ventricular preload by cardiac magnetic resonance imaging predicts exercise capacity in adult operated tetralogy of Fallot: a retrospective study. BMC Cardiovascular Disorders, 2014, 14, 122.	0.7	10
155	Comparison of health state values derived from patients and individuals from the general population. Quality of Life Research, 2017, 26, 3353-3363.	1.5	10
156	Exacerbation of cardiovascular ageing by diabetes mellitus and its associations with acyl-carnitines. Aging, 2021, 13, 14785-14805.	1.4	10
157	Impact of age, sex and ethnicity on intra-cardiac flow components and left ventricular kinetic energy derived from 4D flow CMR. International Journal of Cardiology, 2021, 336, 105-112.	0.8	10
158	Detection of persistent systolic and diastolic abnormalities in asymptomatic pediatric repaired tetralogy of Fallot patients with preserved ejection fraction: a CMR feature tracking study. European Radiology, 2021, 31, 6156-6168.	2.3	10
159	Myoblast Transplantation for Cardiac Repair: From Automyoblast to Allomyoblast Transplantation. Annals of Thoracic Surgery, 2008, 86, 1841-1848.	0.7	9
160	Coronary artery segmentation via Hessian filter and curve-skeleton extraction. , 2014, , .		9
161	Analysis of three-dimensional endocardial and epicardial strains from cardiac magnetic resonance in healthy subjects and patients with hypertrophic cardiomyopathy. Medical and Biological Engineering and Computing, 2018, 56, 159-172.	1.6	9
162	Computational Platform Based on Deep Learning for Segmenting Ventricular Endocardium in Long-axis Cardiac MR Imaging. , 2018, 2018, 4500-4503.		9

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163	Dexamethasone inhibits regeneration and causes ventricular aneurysm in the neonatal porcine heart after myocardial infarction. Journal of Molecular and Cellular Cardiology, 2020, 144, 15-23.	0.9	9
164	MECHANISM OF LEFT VENTRICULAR PRESSURE INCREASE DURING ISOVOLUMIC CONTRACTION, AND DETERMINATION OF ITS EQUIVALENT MYOCARDIAL FIBERS ORIENTATION. Journal of Mechanics in Medicine and Biology, 2009, 09, 177-198.	0.3	8
165	A Geometrical Approach for Automatic Shape Restoration of the Left Ventricle. PLoS ONE, 2013, 8, e68615.	1.1	8
166	Differential risk reclassification improvement by exercise testing and myocardial perfusion imaging in patients with suspected and known coronary artery disease. Journal of Nuclear Cardiology, 2016, 23, 366-378.	1.4	8
167	Statin intolerance: an updated, narrative review mainly focusing on muscle adverse effects. Expert Opinion on Drug Metabolism and Toxicology, 2020, 16, 837-851.	1.5	8
168	Familial Hypercholesterolemia in Asia Pacific: A Review of Epidemiology, Diagnosis, and Management in the Region. Journal of Atherosclerosis and Thrombosis, 2021, 28, 417-434.	0.9	8
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