Ru San Tan

List of Publications by Year
in descending order

271	14,015	34076	24232
papers	citations	52 h-index	110 g-index

286	286	286	13619
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Left Atrial Phasic Function in Older Adults Is Associated with Fibrotic and Low-Grade Inflammatory Pathways. Gerontology, 2023, 69, 47-56.	1.4	3
2	Renal function and coronary bypass surgery in patients with ischemic heart failure. Journal of Thoracic and Cardiovascular Surgery, 2022, 163, 663-672.e3.	0.4	5
3	Hybrid geneticâ€discretized algorithm to handle data uncertainty in diagnosing stenosis of coronary arteries. Expert Systems, 2022, 39, .	2.9	26
4	Explainable machine learning predictions to support personalized cardiology strategies. European Heart Journal Digital Health, 2022, 3, 49-55.	0.7	3
5	Investigating 5-Level EQ-5D (EQ-5D-5L) Values Based on Preferences of Patients With Heart Disease. Value in Health, 2022, 25, 451-460.	0.1	4
6	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
7	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
8	Sex differences in assessing stenosis severity between physician visual assessment and quantitative coronary angiography. International Journal of Cardiology, 2022, 348, 9-14.	0.8	5
9	Editorial for â€œLeft Ventricular Strain Measurements Derived from <scp>MR</scp> Feature Tracking: A Headâ€toâ€Head Comparison of a Higher Temporal Resolution Method with a Conventional Methodâ€• Journal of Magnetic Resonance Imaging, 2022, 56, 812-813.	1.9	0
10	Application of photoplethysmography signals for healthcare systems: An in-depth review. Computer Methods and Programs in Biomedicine, 2022, 216, 106677.	2.6	39
11	Obesity in Older Adults and Associations with Cardiovascular Structure and Function. Obesity Facts, 2022, 15, 336-343.	1.6	5
12	Novel Hypertrophic Cardiomyopathy Diagnosis Index Using Deep Features and Local Directional Pattern Techniques. Journal of Imaging, 2022, 8, 102.	1.7	7
13	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
14	Heart rate variability for medical decision support systems: A review. Computers in Biology and Medicine, 2022, 145, 105407.	3.9	30
15	Role of Four-Chamber Heart Ultrasound Images in Automatic Assessment of Fetal Heart: A Systematic Understanding. Informatics, 2022, 9, 34.	2.4	5
16	Reactive Oxygen Species Scavenging Nanomedicine for the Treatment of Ischemic Heart Disease. Advanced Materials, 2022, 34, e2202169.	11.1	49
17	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
18	An Accurate Multiple Sclerosis Detection Model Based on Exemplar Multiple Parameters Local Phase Quantization: ExMPLPQ. Applied Sciences (Switzerland), 2022, 12, 4920.	1.3	22

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19	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
20	PFP-LHCINCA: Pyramidal Fixed-Size Patch-Based Feature Extraction and Chi-Square Iterative Neighborhood Component Analysis for Automated Fetal Sex Classification on Ultrasound Images. Contrast Media and Molecular Imaging, 2022, 2022, 1-10.	0.4	8
21	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
22	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
23	Platelet reactivity in response to aspirin and ticagrelor in African-Americans and European-Americans. Journal of Thrombosis and Thrombolysis, 2021, 51, 249-259.	1.0	6
24	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
25	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
26	Thymosin Î²4 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
27	Controversies and discrepancies in the effect of dietary fat and cholesterol on cardiovascular risk. Singapore Medical Journal, 2021, 62, 56-62.	0.3	4
28	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
29	Convalescent COVID-19 patients are susceptible to endothelial dysfunction due to persistent immune activation. ELife, 2021, 10, .	2.8	113
30	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
31	Machine learning versus classic electrocardiographic criteria for the detection of echocardiographic left ventricular hypertrophy in a pre-participation cohort. Kardiologia Polska, 2021, 79, 654-661.	0.3	4
32	Infective Endocarditis in Patients on Chronic Hemodialysis. Journal of the American College of Cardiology, 2021, 77, 1629-1640.	1.2	23
33	Automated Detection of Hypertension Using Physiological Signals: A Review. International Journal of Environmental Research and Public Health, 2021, 18, 5838.	1.2	28
34	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
35	Exacerbation of cardiovascular ageing by diabetes mellitus and its associations with acyl-carnitines. Aging, 2021, 13, 14785-14805.	1.4	10
36	Age- and Sex-Specific Changes in CMR Feature Tracking-Based Right Atrial and Ventricular Functional Parameters in Healthy Asians. Frontiers in Cardiovascular Medicine, 2021, 8, 664431.	1.1	3

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37	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
38	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
39	Automated detection of chronic kidney disease using image fusion and graph embedding techniques with ultrasound images. Biomedical Signal Processing and Control, 2021, 68, 102733.	3.5	6
40	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
41	Automated detection of shockable ECG signals: A review. Information Sciences, 2021, 571, 580-604.	4.0	40
42	Computed Tomography Coronary Angiography and Computational Fluid Dynamics Based Fractional Flow Reserve Before and After Percutaneous Coronary Intervention. Frontiers in Bioengineering and Biotechnology, 2021, 9, 739667.	2.0	5
43	Recent Trends in Artificial Intelligence-Assisted Coronary Atherosclerotic Plaque Characterization. International Journal of Environmental Research and Public Health, 2021, 18, 10003.	1.2	14
44	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
45	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
46	Exploring deep features and ECG attributes to detect cardiac rhythm classes. Knowledge-Based Systems, 2021, 232, 107473.	4.0	24
47	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
48	Automated COVID-19 and Heart Failure Detection Using DNA Pattern Technique with Cough Sounds. Diagnostics, 2021, 11, 1962.	1.3	18
49	Review of Deep Learning-Based Atrial Fibrillation Detection Studies. International Journal of Environmental Research and Public Health, 2021, 18, 11302.	1.2	33
50	Diagnostic Performance of Fractional Flow Reserve From CT Coronary Angiography With Analytical Method. Frontiers in Cardiovascular Medicine, 2021, 8, 739633.	1.1	7
51	Detection of shockable ventricular arrhythmia using optimal orthogonal wavelet filters. Neural Computing and Applications, 2020, 32, 15869-15884.	3.2	27
52	Feasibility to Perform T₂* Mapping Postcontrast Administration in Reperfused STEMI Patients for the Detection of Intramyocardial Hemorrhage. Journal of Magnetic Resonance Imaging, 2020, 51, 644-645.	1.9	1
53	Model uncertainty quantification for diagnosis of each main coronary artery stenosis. Soft Computing, 2020, 24, 10149-10160.	2.1	22
54	Automated diagnostic tool for hypertension using convolutional neural network. Computers in Biology and Medicine, 2020, 126, 103999.	3.9	30

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55	Proteomic Evaluation of the Comorbidity-Inflammation Paradigm in Heart Failure With Preserved Ejection Fraction. Circulation, 2020, 142, 2029-2044.	1.6	117
56	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
57	Quantification of effects of mean blood pressure and left ventricular mass on noninvasive fast fractional flow reserve. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 319, H360-H369.	1.5	6
58	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
59	Influence of Sex on Platelet Reactivity in Response to Aspirin. Journal of the American Heart Association, 2020, 9, e014726.	1.6	21
60	LOOK TO THE RIGHT: THE RIGHT VENTRICLE AS A POSSIBLE PLAYER INVOLVED IN CENTRAL ARTERIAL STIFFNESS PATHOGENESIS. Journal of the American College of Cardiology, 2020, 75, 1877.	1.2	0
61	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
62	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
63	Local Preserving Class Separation Framework to Identify Gestational Diabetes Mellitus Mother Using Ultrasound Fetal Cardiac Image. IEEE Access, 2020, 8, 229043-229051.	2.6	6
64	Tackling cardiometabolic risk in the Asia Pacific region. American Journal of Preventive Cardiology, 2020, 4, 100096.	1.3	5
65	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
66	Long-term Prognostic Value of Cardiac MRI Left Atrial Strain in ST-Segment Elevation Myocardial Infarction. Radiology, 2020, 296, 299-309.	3.6	43
67	Classification of heart sound signals using a novel deep WaveNet model. Computer Methods and Programs in Biomedicine, 2020, 196, 105604.	2.6	96
68	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
69	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
70	Prevalence of Brugada Syndrome in a Large Population of Young Singaporean Men. Circulation, 2020, 141, 155-157.	1.6	7
71	Comprehensive electrocardiographic diagnosis based on deep learning. Artificial Intelligence in Medicine, 2020, 103, 101789.	3.8	137
72	Three-dimensional biventricular strains in pulmonary arterial hypertension patients using hyperelastic warping. Computer Methods and Programs in Biomedicine, 2020, 189, 105345.	2.6	7

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73	1D-CADCapsNet: One dimensional deep capsule networks for coronary artery disease detection using ECG signals. Physica Medica, 2020, 70, 39-48.	0.4	53
74	A new non-invasive index for prognosis evaluation in patients with aortic stenosis. Scientific Reports, 2020, 10, 7333.	1.6	1
75	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
76	A computational intelligence tool for the detection of hypertension using empirical mode decomposition. Computers in Biology and Medicine, 2020, 118, 103630.	3.9	32
77	Reference Ranges for Left Ventricular Curvedness and Curvedness-Based Functional Indices Using Cardiovascular Magnetic Resonance in Healthy Asian Subjects. Scientific Reports, 2020, 10, 8465.	1.6	2
78	Effect of Myocardial Viability Assessed by Cardiac Magnetic Resonance on Survival in Patients With Severe Left Ventricular Dysfunction. Circulation Reports, 2020, 2, 306-313.	0.4	5
79	Abstract 12918: The Association Between Central Obesity and Myocardial Ageing: Traditional Body Mass Index (bmi) Falls Short of Expectation. Circulation, 2020, 142, .	1.6	0
80	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
81	Galectinâ€3 as a candidate upstream biomarker for quantifying risks of myocardial ageing. ESC Heart Failure, 2019, 6, 1068-1076.	1.4	15
82	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
83	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
84	Myocardial Viability and Long-Term Outcomes in Ischemic Cardiomyopathy. New England Journal of Medicine, 2019, 381, 739-748.	13.9	186
85	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
86	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
87	Left Atrial Myopathy in Heart Failure with Preserved Ejection Fraction: Insights from the PROMIS-HFpEF Study. Journal of Cardiac Failure, 2019, 25, S43.	0.7	0
88	Automatic Segmentation of Coronary Artery Lumen via Anisotropic Graph-cuts*. , 2019, 2019, 4871-4874.		1
89	Elevated Right Atrial Pressure Associated with Alteration of Left Ventricular Contractility and Ventricular-Arterial Coupling in Pulmonary Artery Hypertension*. , 2019, 2019, 820-823.		2
90	A Multi-channel Deep Learning Approach for Segmentation of the Left Ventricular Endocardium from Cardiac Images. , 2019, 2019, 4016-4019.		5

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91	Automated heartbeat classification and detection of arrhythmia using optimal orthogonal wavelet filters. Informatics in Medicine Unlocked, 2019, 16, 100221.	1.9	59
92	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
93	A Populationâ€wide study of electrocardiographic (ECG) norms and the effect of demographic and anthropometric factors on selected ECG characteristics in young, Southeast Asian malesâ€"results from the Singapore Armed Forces ECG (SAFE) study. Annals of Noninvasive Electrocardiology, 2019, 24, e12634.	0.5	17
94	TCTAP A-092 Non-invasive Evaluation of Global and Territorial Coronary Vascular Function: Association with Diastolic Function. Journal of the American College of Cardiology, 2019, 73, S50.	1.2	0
95	Computer-aided diagnosis of congestive heart failure using ECG signals â€“ A review. Physica Medica, 2019, 62, 95-104.	0.4	79
96	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
97	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
98	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
99	Global weighted LBP based entropy features for the assessment of pulmonary hypertension. Pattern Recognition Letters, 2019, 125, 35-41.	2.6	36
100	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
101	Classification of myocardial infarction with multi-lead ECG signals and deep CNN. Pattern Recognition Letters, 2019, 122, 23-30.	2.6	292
102	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
103	Age-related changes in four-dimensional CMR-derived atrioventricular junction velocities and displacements: Implications for the identification of altered annular dynamics for ventricular function assessment. IJC Heart and Vasculature, 2019, 22, 6-12.	0.6	3
104	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
105	Deep convolutional neural network for the automated diagnosis of congestive heart failure using ECG signals. Applied Intelligence, 2019, 49, 16-27.	3.3	180
106	Computational and Mathematical Methods in Cardiovascular Physiology. , 2019, , .		1
107	Cardiac Image Segmentation and Shape Modeling. , 2019, , 113-140.		0
108	Noninvasive Hemodynamic Assessment of the Significance of Coronary Artery Disease. , 2019, , 283-302.		0

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109	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
110	Imaging 4D morphology and dynamics of mitral annulus in humans using cardiac cine MR feature tracking. Scientific Reports, 2018, 8, 81.	1.6	19
111	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
112	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
113	Advanced analyses of computed tomography coronary angiography can help discriminate ischemic lesions. International Journal of Cardiology, 2018, 267, 208-214.	0.8	14
114	Entropies for automated detection of coronary artery disease using ECG signals: A review. Biocybernetics and Biomedical Engineering, 2018, 38, 373-384.	3.3	77
115	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
116	Metabolomic profile of arterial stiffness in aged adults. Diabetes and Vascular Disease Research, 2018, 15, 74-80.	0.9	29
117	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
118	Comparison of Image Acquisition Techniques in Four-Dimensional Flow Cardiovascular MR on 3 Tesla in Volunteers and Tetralogy of Fallot Patients. , 2018, 2018, 1115-1118.		6
119	Cardiac Image Segmentation Using Memory Persistence Methodology. , 2018, 2018, 4504-4507.		1
120	Coronary Artery Segmentation by Deep Learning Neural Networks on Computed Tomographic Coronary Angiographic Images. , 2018, 2018, 608-611.		43
121	Computational Platform Based on Deep Learning for Segmenting Ventricular Endocardium in Long-axis Cardiac MR Imaging. , 2018, 2018, 4500-4503.		9
122	N-Terminal pro C-Type Natriuretic Peptide (NTproCNP) and myocardial function in ageing. PLoS ONE, 2018, 13, e0209517.	1.1	5
123	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
124	Multi-dimensional proprio-proximus machine learning for assessment of myocardial infarction. Computerized Medical Imaging and Graphics, 2018, 70, 63-72.	3.5	6
125	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
126	Arrhythmia detection using deep convolutional neural network with long duration ECG signals. Computers in Biology and Medicine, 2018, 102, 411-420.	3.9	555

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127	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
128	Left Ventricular Wall Stress Is Sensitive Marker of Hypertrophic Cardiomyopathy With Preserved Ejection Fraction. Frontiers in Physiology, 2018, 9, 250.	1.3	14
129	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
130	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
131	Computer-aided diagnosis of atrial fibrillation based on ECG Signals: A review. Information Sciences, 2018, 467, 99-114.	4.0	134
132	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
133	An efficient compression of ECG signals using deep convolutional autoencoders. Cognitive Systems Research, 2018, 52, 198-211.	1.9	145
134	Early Regenerative Capacity in the Porcine Heart. Circulation, 2018, 138, 2798-2808.	1.6	192
135	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
136	Dissecting Clinical and Metabolomics Associations of Left Atrial Phasic Function by Cardiac Magnetic Resonance Feature Tracking. Scientific Reports, 2018, 8, 8138.	1.6	24
137	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
138	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
139	Long-Term Prognostic Value of Appropriate Myocardial Perfusion Imaging. American Journal of Cardiology, 2017, 119, 1957-1962.	0.7	6
140	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
141	THE EFFECT OF RACE ON THE ANTIPLATELET EFFECTS OF TICAGRELOR AND ASPIRIN. Journal of the American College of Cardiology, 2017, 69, 263.	1.2	0
142	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
143	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
144	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

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145	A deep convolutional neural network model to classify heartbeats. Computers in Biology and Medicine, 2017, 89, 389-396.	3.9	928
146	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
147	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
148	HbH Constant Spring disease has lower serum ferritin relative to liver iron concentration (<scp>LIC</scp>): importance of <scp>LIC</scp> measurement and potential impact on serum ferritin thresholds for iron chelation. British Journal of Haematology, 2017, 176, 986-988.	1.2	6
149	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
150	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
151	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
152	A Software Tool for Heart AVJ Motion Tracking Using Cine Cardiovascular Magnetic Resonance Images. IEEE Journal of Translational Engineering in Health and Medicine, 2017, 5, 1-12.	2.2	4
153	Value of soluble Urokinase plasminogen activator receptor over age as a biomarker of impaired myocardial relaxation. BMC Geriatrics, 2017, 17, 275.	1.1	4
154	A 65-nm 0.35-V 7.1-Î¼W memory-less adaptive PCG processor for wearable long-term cardiac monitoring. , 2016, , .		0
155	INFARCTED LEFT VENTRICLE CLASSIFICATION FROM CROSS-SECTIONAL ECHOCARDIOGRAMS USING RELATIVE WAVELET ENERGY AND ENTROPY FEATURES. Journal of Mechanics in Medicine and Biology, 2016, 16, 1640009.	0.3	4
156	AUTOMATED DIAGNOSIS OF DIABETES USING ENTROPIES AND DIABETIC INDEX. Journal of Mechanics in Medicine and Biology, 2016, 16, 1640008.	0.3	5
157	Fast Marching and Rungeâ€“Kutta Based Method for Centreline Extraction of Right Coronary Artery in Human Patients. Cardiovascular Engineering and Technology, 2016, 7, 159-169.	0.7	11
158	Three-Dimensional Tricuspid Annular Motion Analysis from Cardiac Magnetic Resonance Feature-Tracking. Annals of Biomedical Engineering, 2016, 44, 3522-3538.	1.3	32
159	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
160	Atrioventricular junction (AVJ) motion tracking: A software tool with ITK/VTK/Qt. , 2016, 2016, 4141-4144.		1
161	Correcting motion in multiplanar cardiac magnetic resonance images. BioMedical Engineering OnLine, 2016, 15, 93.	1.3	1
162	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

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163	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
164	Cardiac MRI based numerical modeling of left ventricular fluid dynamics with mitral valve incorporated. Journal of Biomechanics, 2016, 49, 1199-1205.	0.9	38
165	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
166	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
167	Cardiac image segmentation by random walks with dynamic shape constraint. IET Computer Vision, 2016, 10, 79-86.	1.3	14
168	Simplified Models of Non-Invasive Fractional Flow Reserve Based on CT Images. PLoS ONE, 2016, 11, e0153070.	1.1	44
169	Novel method for atrioventricular motion assessment from three-dimensional cine magnetic resonance imaging. , 2015, 2015, 319-22.		4
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