

# Ru San Tan

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

245  
papers

8,824  
citations

41  
h-index

90  
g-index

286  
ext. papers

11,598  
ext. citations

5.4  
avg. IF

6.4  
L-index

#	Paper	IF	Citations
245	Application of photoplethysmography signals for healthcare systems: An in-depth review.. <i>Computer Methods and Programs in Biomedicine</i> , <b>2022</b> , 216, 106677	6.9	8
244	Investigating 5-Level EQ-5D (EQ-5D-5L) Values Based on Preferences of Patients With Heart Disease.. <i>Value in Health</i> , <b>2022</b> , 25, 451-460	3.3	0
243	Ventricular flow analysis and its association with exertional capacity in repaired tetralogy of Fallot: 4D flow cardiovascular magnetic resonance study.. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2022</b> , 24, 4	6.9	1
242	Left Atrial Phasic Function in Older Adults Is Associated with Fibrotic and Low-Grade Inflammatory Pathways.. <i>Gerontology</i> , <b>2022</b> , 1-10	5.5	
241	Novel Hypertrophic Cardiomyopathy Diagnosis Index Using Deep Features and Local Directional Pattern Techniques.. <i>Journal of Imaging</i> , <b>2022</b> , 8,	3.1	1
240	Attention-based 3D CNN with residual connections for efficient ECG-based COVID-19 detection.. <i>Computers in Biology and Medicine</i> , <b>2022</b> , 143, 105335	7	5
239	Heart rate variability for medical decision support systems: A review.. <i>Computers in Biology and Medicine</i> , <b>2022</b> , 145, 105407	7	1
238	Role of Four-Chamber Heart Ultrasound Images in Automatic Assessment of Fetal Heart: A Systematic Understanding. <i>Informatics</i> , <b>2022</b> , 9, 34	2.2	0
237	Reactive Oxygen Species Scavenging Nanomedicine for The Treatment of Ischemic Heart Disease.. <i>Advanced Materials</i> , <b>2022</b> , e2202169	24	9
236	An accurate valvular heart disorders detection model based on a new dual symmetric tree pattern using stethoscope sounds. <i>Computers in Biology and Medicine</i> , <b>2022</b> , 105599	7	0
235	An Accurate Multiple Sclerosis Detection Model Based on Exemplar Multiple Parameters Local Phase Quantization: ExMPLPQ. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 4920	2.6	8
234	Explainable detection of myocardial infarction using deep learning models with Grad-CAM technique on ECG signals.. <i>Computers in Biology and Medicine</i> , <b>2022</b> , 146, 105550	7	6
233	PFP-LHCINCA: Pyramidal Fixed-Size Patch-Based Feature Extraction and Chi-Square Iterative Neighborhood Component Analysis for Automated Fetal Sex Classification on Ultrasound Images. <i>Contrast Media and Molecular Imaging</i> , <b>2022</b> , 2022, 1-10	3.2	0
232	Diagnostic Performance of Fractional Flow Reserve From CT Coronary Angiography With Analytical Method. <i>Frontiers in Cardiovascular Medicine</i> , <b>2021</b> , 8, 739633	5.4	0
231	Automated classification of attention deficit hyperactivity disorder and conduct disorder using entropy features with ECG signals.. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 140, 105120	7	3
230	Automated COVID-19 and Heart Failure Detection Using DNA Pattern Technique with Cough Sounds. <i>Diagnostics</i> , <b>2021</b> , 11,	3.8	4
229	Review of Deep Learning-Based Atrial Fibrillation Detection Studies. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	9

228	Disproportionate left atrial myopathy in heart failure with preserved ejection fraction among participants of the PROMIS-HFpEF study. <i>Scientific Reports</i> , <b>2021</b> , 11, 4885	4.9	8
227	Convalescent COVID-19 patients are susceptible to endothelial dysfunction due to persistent immune activation. <i>ELife</i> , <b>2021</b> , 10,	8.9	41
226	Cardiovascular magnetic resonance-assessed fast global longitudinal strain parameters add diagnostic and prognostic insights in right ventricular volume and pressure loading disease conditions. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2021</b> , 23, 38	6.9	4
225	Machine learning versus classical electrocardiographic criteria for echocardiographic left ventricular hypertrophy in a pre-participation cohort. <i>Kardiologia Polska</i> , <b>2021</b> , 79, 654-661	0.9	1
224	Infective Endocarditis in Patients on Chronic Hemodialysis. <i>Journal of the American College of Cardiology</i> , <b>2021</b> , 77, 1629-1640	15.1	3
223	Automated Detection of Hypertension Using Physiological Signals: A Review. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	4
222	Familial Hypercholesterolemia in Asia Pacific: A Review of Epidemiology, Diagnosis, and Management in the Region. <i>Journal of Atherosclerosis and Thrombosis</i> , <b>2021</b> , 28, 417-434	4	0
221	Exacerbation of cardiovascular ageing by diabetes mellitus and its associations with acyl-carnitines. <i>Aging</i> , <b>2021</b> , 13, 14785-14805	5.6	2
220	Age- and Sex-Specific Changes in CMR Feature Tracking-Based Right Atrial and Ventricular Functional Parameters in Healthy Asians. <i>Frontiers in Cardiovascular Medicine</i> , <b>2021</b> , 8, 664431	5.4	1
219	Application of Petersen graph pattern technique for automated detection of heart valve diseases with PCG signals. <i>Information Sciences</i> , <b>2021</b> , 565, 91-104	7.7	11
218	Automated detection of coronary artery disease, myocardial infarction and congestive heart failure using GaborCNN model with ECG signals. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 134, 104457	7	12
217	Platelet reactivity in response to aspirin and ticagrelor in African-Americans and European-Americans. <i>Journal of Thrombosis and Thrombolysis</i> , <b>2021</b> , 51, 249-259	5.1	2
216	Accurate detection of myocardial infarction using non linear features with ECG signals. <i>Journal of Ambient Intelligence and Humanized Computing</i> , <b>2021</b> , 12, 3227-3244	3.7	18
215	Coronary artery disease detection using artificial intelligence techniques: A survey of trends, geographical differences and diagnostic features 1991-2020. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 128, 104095	7	17
214	Thymosin $\alpha$ 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. <i>Theranostics</i> , <b>2021</b> , 11, 7879-7895	12.1	12
213	Controversies and discrepancies in the effect of dietary fat and cholesterol on cardiovascular risk. <i>Singapore Medical Journal</i> , <b>2021</b> , 62, 56-62	1.9	1
212	Automated detection of chronic kidney disease using image fusion and graph embedding techniques with ultrasound images. <i>Biomedical Signal Processing and Control</i> , <b>2021</b> , 68, 102733	4.9	2
211	Impact of age, sex and ethnicity on intra-cardiac flow components and left ventricular kinetic energy derived from 4D flow CMR. <i>International Journal of Cardiology</i> , <b>2021</b> , 336, 105-112	3.2	2

210	Automated detection of shockable ECG signals: A review. <i>Information Sciences</i> , <b>2021</b> , 571, 580-604	7.7	7
209	Computed Tomography Coronary Angiography and Computational Fluid Dynamics Based Fractional Flow Reserve Before and After Percutaneous Coronary Intervention. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 739667	5.8	2
208	Recent Trends in Artificial Intelligence-Assisted Coronary Atherosclerotic Plaque Characterization. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	1
207	Amino acid differences between diabetic older adults and non-diabetic older adults and their associations with cardiovascular function. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2021</b> , 158, 63-71	5.8	4
206	Automated arrhythmia detection with homeomorphically irreducible tree technique using more than 10,000 individual subject ECG records. <i>Information Sciences</i> , <b>2021</b> , 575, 323-337	7.7	11
205	Exploring deep features and ECG attributes to detect cardiac rhythm classes. <i>Knowledge-Based Systems</i> , <b>2021</b> , 232, 107473	7.3	6
204	Detection of persistent systolic and diastolic abnormalities in asymptomatic pediatric repaired tetralogy of Fallot patients with preserved ejection fraction: a CMR feature tracking study. <i>European Radiology</i> , <b>2021</b> , 31, 6156-6168	8	5
203	Tackling cardiometabolic risk in the Asia Pacific region. <i>American Journal of Preventive Cardiology</i> , <b>2020</b> , 4, 100096	1.9	2
202	Dexamethasone inhibits regeneration and causes ventricular aneurysm in the neonatal porcine heart after myocardial infarction. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2020</b> , 144, 15-23	5.8	2
201	Renal function and coronary bypass surgery in patients with ischemic heart failure. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2020</b> ,	1.5	3
200	Hybrid genetic-discretized algorithm to handle data uncertainty in diagnosing stenosis of coronary arteries. <i>Expert Systems</i> , <b>2020</b> ,	2.1	11
199	Long-term Prognostic Value of Cardiac MRI Left Atrial Strain in ST-Segment Elevation Myocardial Infarction. <i>Radiology</i> , <b>2020</b> , 296, 299-309	20.5	14
198	Classification of heart sound signals using a novel deep WaveNet model. <i>Computer Methods and Programs in Biomedicine</i> , <b>2020</b> , 196, 105604	6.9	37
197	Fast long-axis strain: a simple, automatic approach for assessing left ventricular longitudinal function with cine cardiovascular magnetic resonance. <i>European Radiology</i> , <b>2020</b> , 30, 3672-3683	8	10
196	Association between work-related features and coronary artery disease: A heterogeneous hybrid feature selection integrated with balancing approach. <i>Pattern Recognition Letters</i> , <b>2020</b> , 133, 33-40	4.7	39
195	Prevalence of Brugada Syndrome in a Large Population of Young Singaporean Men. <i>Circulation</i> , <b>2020</b> , 141, 155-157	16.7	4
194	Comprehensive electrocardiographic diagnosis based on deep learning. <i>Artificial Intelligence in Medicine</i> , <b>2020</b> , 103, 101789	7.4	55
193	Three-dimensional biventricular strains in pulmonary arterial hypertension patients using hyperelastic warping. <i>Computer Methods and Programs in Biomedicine</i> , <b>2020</b> , 189, 105345	6.9	5

192	1D-CADCapsNet: One dimensional deep capsule networks for coronary artery disease detection using ECG signals. <i>Physica Medica</i> , <b>2020</b> , 70, 39-48	2.7	22
191	A new non-invasive index for prognosis evaluation in patients with aortic stenosis. <i>Scientific Reports</i> , <b>2020</b> , 10, 7333	4.9	
190	Automated pre-screening of arrhythmia using hybrid combination of Fourier-Bessel expansion and LSTM. <i>Computers in Biology and Medicine</i> , <b>2020</b> , 120, 103753	7	14
189	Reference Ranges for Left Ventricular Curvedness and Curvedness-Based Functional Indices Using Cardiovascular Magnetic Resonance in Healthy Asian Subjects. <i>Scientific Reports</i> , <b>2020</b> , 10, 8465	4.9	0
188	Effect of Myocardial Viability Assessed by Cardiac Magnetic Resonance on Survival in Patients With Severe Left Ventricular Dysfunction. <i>Circulation Reports</i> , <b>2020</b> , 2, 306-313	0.7	2
187	A computational intelligence tool for the detection of hypertension using empirical mode decomposition. <i>Computers in Biology and Medicine</i> , <b>2020</b> , 118, 103630	7	16
186	Model uncertainty quantification for diagnosis of each main coronary artery stenosis. <i>Soft Computing</i> , <b>2020</b> , 24, 10149-10160	3.5	10
185	Automated diagnostic tool for hypertension using convolutional neural network. <i>Computers in Biology and Medicine</i> , <b>2020</b> , 126, 103999	7	12
184	Proteomic Evaluation of the Comorbidity-Inflammation Paradigm in Heart Failure With Preserved Ejection Fraction: Results From the PROMIS-HFpEF Study. <i>Circulation</i> , <b>2020</b> , 142, 2029-2044	16.7	32
183	Accurate deep neural network model to detect cardiac arrhythmia on more than 10,000 individual subject ECG records. <i>Computer Methods and Programs in Biomedicine</i> , <b>2020</b> , 197, 105740	6.9	30
182	Quantification of effects of mean blood pressure and left ventricular mass on noninvasive fast fractional flow reserve. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2020</b> , 319, H360-H369	5.2	3
181	Automated detection of severity of hypertension ECG signals using an optimal bi-orthogonal wavelet filter bank. <i>Computers in Biology and Medicine</i> , <b>2020</b> , 123, 103924	7	16
180	Influence of Sex on Platelet Reactivity in Response to Aspirin. <i>Journal of the American Heart Association</i> , <b>2020</b> , 9, e014726	6	6
179	Statin intolerance: an updated, narrative review mainly focusing on muscle adverse effects. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , <b>2020</b> , 16, 837-851	5.5	2
178	Gadobutrol-Enhanced Cardiac Magnetic Resonance Imaging for Detection of Coronary Artery Disease. <i>Journal of the American College of Cardiology</i> , <b>2020</b> , 76, 1536-1547	15.1	13
177	Local Preserving Class Separation Framework to Identify Gestational Diabetes Mellitus Mother Using Ultrasound Fetal Cardiac Image. <i>IEEE Access</i> , <b>2020</b> , 8, 229043-229051	3.5	3
176	Detection of shockable ventricular arrhythmia using optimal orthogonal wavelet filters. <i>Neural Computing and Applications</i> , <b>2020</b> , 32, 15869-15884	4.8	21
175	Feasibility to Perform T * Mapping Postcontrast Administration in Reperfused STEMI Patients for the Detection of Intramyocardial Hemorrhage. <i>Journal of Magnetic Resonance Imaging</i> , <b>2020</b> , 51, 644-645	5.6	1

174	Automated heartbeat classification and detection of arrhythmia using optimal orthogonal wavelet filters. <i>Informatics in Medicine Unlocked</i> , <b>2019</b> , 16, 100221	5.3	40
173	Automated detection of shockable and non-shockable arrhythmia using novel wavelet-based ECG features. <i>Computers in Biology and Medicine</i> , <b>2019</b> , 115, 103446	7	24
172	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. <i>Annals of Noninvasive Electrocardiology</i> , <b>2019</b> , 24, e12634	1.5	10
171	Computer-aided diagnosis of congestive heart failure using ECG signals - A review. <i>Physica Medica</i> , <b>2019</b> , 62, 95-104	2.7	39
170	Impaired Cardiovascular Magnetic Resonance-Derived Rapid Semiautomated Right Atrial Longitudinal Strain Is Associated With Decompensated Hemodynamics in Pulmonary Arterial Hypertension. <i>Circulation: Cardiovascular Imaging</i> , <b>2019</b> , 12, e008582	3.9	28
169	A new approach for arrhythmia classification using deep coded features and LSTM networks. <i>Computer Methods and Programs in Biomedicine</i> , <b>2019</b> , 176, 121-133	6.9	141
168	Application of nonlinear methods to discriminate fractionated electrograms in paroxysmal versus persistent atrial fibrillation. <i>Computer Methods and Programs in Biomedicine</i> , <b>2019</b> , 175, 163-178	6.9	12
167	Global weighted LBP based entropy features for the assessment of pulmonary hypertension. <i>Pattern Recognition Letters</i> , <b>2019</b> , 125, 35-41	4.7	20
166	Cognitive impairment in Asian patients with heart failure: prevalence, biomarkers, clinical correlates, and outcomes. <i>European Journal of Heart Failure</i> , <b>2019</b> , 21, 688-690	12.3	4
165	Application of multiresolution analysis for automated detection of brain abnormality using MR images: A comparative study. <i>Future Generation Computer Systems</i> , <b>2019</b> , 90, 359-367	7.5	48
164	Galectin-3 as a candidate upstream biomarker for quantifying risks of myocardial ageing. <i>ESC Heart Failure</i> , <b>2019</b> , 6, 1068-1076	3.7	10
163	Intracardiac 4D Flow MRI in Congenital Heart Disease: Recommendations on Behalf of the ISMRM Flow & Motion Study Group. <i>Journal of Magnetic Resonance Imaging</i> , <b>2019</b> , 50, spcone-spcone	5.6	20
162	Associations between Skeletal Muscle and Myocardium in Aging: A Syndrome of "Cardio-Sarcopenia"?. <i>Journal of the American Geriatrics Society</i> , <b>2019</b> , 67, 2568-2573	5.6	18
161	Myocardial Viability and Long-Term Outcomes in Ischemic Cardiomyopathy. <i>New England Journal of Medicine</i> , <b>2019</b> , 381, 739-748	59.2	99
160	Intracardiac 4D Flow MRI in Congenital Heart Disease: Recommendations on Behalf of the ISMRM Flow & Motion Study Group. <i>Journal of Magnetic Resonance Imaging</i> , <b>2019</b> , 50, 677-681	5.6	16
159	A new machine learning technique for an accurate diagnosis of coronary artery disease. <i>Computer Methods and Programs in Biomedicine</i> , <b>2019</b> , 179, 104992	6.9	100
158	Automatic Segmentation of Coronary Artery Lumen via Anisotropic Graph-cuts. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2019</b> , 2019, 4871-4874	0.9	1
157	Elevated Right Atrial Pressure Associated with Alteration of Left Ventricular Contractility and Ventricular-Arterial Coupling in Pulmonary Artery Hypertension. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2019</b> , 2019, 820-823	0.9	2

156	A Multi-channel Deep Learning Approach for Segmentation of the Left Ventricular Endocardium from Cardiac Images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2019, 2019, 4016-4019</i>	0.9	0
155	Cardiac Image Segmentation and Shape Modeling <b>2019</b> , 113-140		
154	Noninvasive Hemodynamic Assessment of the Significance of Coronary Artery Disease <b>2019</b> , 283-302		
153	Anatomy and Physiology of the Heart <b>2019</b> , 3-37		
152	Classification of myocardial infarction with multi-lead ECG signals and deep CNN. <i>Pattern Recognition Letters, 2019, 122, 23-30</i>	4.7	150
151	Automated beat-wise arrhythmia diagnosis using modified U-net on extended electrocardiographic recordings with heterogeneous arrhythmia types. <i>Computers in Biology and Medicine, 2019, 105, 92-101</i>	7	67
150	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. <i>IJC Heart and Vasculature, 2019, 22, 6-12</i>	2.4	2
149	Cardiac metabolic modulation upon low-carbohydrate low-protein ketogenic diet in diabetic rats studied in vivo using hyperpolarized C pyruvate, butyrate and acetoacetate probes. <i>Diabetes, Obesity and Metabolism, 2019, 21, 949-960</i>	6.7	8
148	Deep convolutional neural network for the automated diagnosis of congestive heart failure using ECG signals. <i>Applied Intelligence, 2019, 49, 16-27</i>	4.9	115
147	Automated characterization of cardiovascular diseases using relative wavelet nonlinear features extracted from ECG signals. <i>Computer Methods and Programs in Biomedicine, 2018, 161, 133-143</i>	6.9	21
146	Imaging 4D morphology and dynamics of mitral annulus in humans using cardiac cine MR feature tracking. <i>Scientific Reports, 2018, 8, 81</i>	4.9	14
145	Cardiac magnetic resonance T1 and extracellular volume mapping with motion correction and co-registration based on fast elastic image registration. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine, 2018, 31, 115-129</i>	2.8	8
144	Application of stacked convolutional and long short-term memory network for accurate identification of CAD ECG signals. <i>Computers in Biology and Medicine, 2018, 94, 19-26</i>	7	189
143	Advanced analyses of computed tomography coronary angiography can help discriminate ischemic lesions. <i>International Journal of Cardiology, 2018, 267, 208-214</i>	3.2	12
142	Entropies for automated detection of coronary artery disease using ECG signals: A review. <i>Biocybernetics and Biomedical Engineering, 2018, 38, 373-384</i>	5.7	48
141	Analysis of three-dimensional endocardial and epicardial strains from cardiac magnetic resonance in healthy subjects and patients with hypertrophic cardiomyopathy. <i>Medical and Biological Engineering and Computing, 2018, 56, 159-172</i>	3.1	7
140	Metabolomic profile of arterial stiffness in aged adults. <i>Diabetes and Vascular Disease Research, 2018, 15, 74-80</i>	3.3	16
139	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. <i>European Heart Journal, 2018, 39, 3464-3471</i>	9.5	9

138	Left Ventricular Wall Stress Is Sensitive Marker of Hypertrophic Cardiomyopathy With Preserved Ejection Fraction. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 250	4.6	8
137	Application of Patient-Specific Computational Fluid Dynamics in Coronary and Intra-Cardiac Flow Simulations: Challenges and Opportunities. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 742	4.6	42
136	A novel automated diagnostic system for classification of myocardial infarction ECG signals using an optimal biorthogonal filter bank. <i>Computers in Biology and Medicine</i> , <b>2018</b> , 102, 341-356	7	60
135	Computer-aided diagnosis of atrial fibrillation based on ECG Signals: A review. <i>Information Sciences</i> , <b>2018</b> , 467, 99-114	7.7	75
134	Automated detection of atrial fibrillation using long short-term memory network with RR interval signals. <i>Computers in Biology and Medicine</i> , <b>2018</b> , 102, 327-335	7	115
133	An efficient compression of ECG signals using deep convolutional autoencoders. <i>Cognitive Systems Research</i> , <b>2018</b> , 52, 198-211	4.8	83
132	Early Regenerative Capacity in the Porcine Heart. <i>Circulation</i> , <b>2018</b> , 138, 2798-2808	16.7	117
131	Prevalence and correlates of coronary microvascular dysfunction in heart failure with preserved ejection fraction: PROMIS-HFpEF. <i>European Heart Journal</i> , <b>2018</b> , 39, 3439-3450	9.5	195
130	Dissecting Clinical and Metabolomics Associations of Left Atrial Phasic Function by Cardiac Magnetic Resonance Feature Tracking. <i>Scientific Reports</i> , <b>2018</b> , 8, 8138	4.9	16
129	Automated diagnosis of arrhythmia using combination of CNN and LSTM techniques with variable length heart beats. <i>Computers in Biology and Medicine</i> , <b>2018</b> , 102, 278-287	7	296
128	Validation of a rapid semi-automated method to assess left atrial longitudinal phasic strains on cine cardiovascular magnetic resonance imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2018</b> , 20, 71	6.9	30
127	Comparison of Image Acquisition Techniques in Four-Dimensional Flow Cardiovascular MR on 3 Tesla in Volunteers and Tetralogy of Fallot Patients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 4417-4420	0.9	5
126	Cardiac Image Segmentation Using Memory Persistence Methodology. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 4504-4507	0.9	1
125	Coronary Artery Segmentation by Deep Learning Neural Networks on Computed Tomographic Coronary Angiographic Images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 4421-4424	0.9	24
124	Computational Platform Based on Deep Learning for Segmenting Ventricular Endocardium in Long-axis Cardiac MR Imaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 4500-4503	0.9	7
123	N-Terminal pro C-Type Natriuretic Peptide (NTproCNP) and myocardial function in ageing. <i>PLoS ONE</i> , <b>2018</b> , 13, e0209517	3.7	1
122	Normal Values of Myocardial Deformation Assessed by Cardiovascular Magnetic Resonance Feature Tracking in a Healthy Chinese Population: A Multicenter Study. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 1181	4.6	30
121	Multi-dimensional proprio-proximus machine learning for assessment of myocardial infarction. <i>Computerized Medical Imaging and Graphics</i> , <b>2018</b> , 70, 63-72	7.6	3



120	Quantification of Biventricular Strains in Heart Failure With Preserved Ejection Fraction Patient Using Hyperelastic Warping Method. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 1295	4.6	10
119	Arrhythmia detection using deep convolutional neural network with long duration ECG signals. <i>Computers in Biology and Medicine</i> , <b>2018</b> , 102, 411-420	7	322
118	Automated diagnosis of congestive heart failure using dual tree complex wavelet transform and statistical features extracted from 2s of ECG signals. <i>Computers in Biology and Medicine</i> , <b>2017</b> , 83, 48-58	7	37
117	Long-Term Prognostic Value of Appropriate Myocardial Perfusion Imaging. <i>American Journal of Cardiology</i> , <b>2017</b> , 119, 1957-1962	3	4
116	Combined diagnostic performance of coronary computed tomography angiography and computed tomography derived fractional flow reserve for the evaluation of myocardial ischemia: A meta-analysis. <i>International Journal of Cardiology</i> , <b>2017</b> , 236, 100-106	3.2	11
115	Computer aided diagnosis of Coronary Artery Disease, Myocardial Infarction and carotid atherosclerosis using ultrasound images: A review. <i>Physica Medica</i> , <b>2017</b> , 33, 1-15	2.7	33
114	SHOCKABLE VERSUS NONSHOCKABLE LIFE-THREATENING VENTRICULAR ARRHYTHMIAS USING DWT AND NONLINEAR FEATURES OF ECG SIGNALS. <i>Journal of Mechanics in Medicine and Biology</i> , <b>2017</b> , 17, 1740004	0.7	8
113	AUTOMATED IDENTIFICATION OF CORONARY ARTERY DISEASE FROM SHORT-TERM 12 LEAD ELECTROCARDIOGRAM SIGNALS BY USING WAVELET PACKET DECOMPOSITION AND COMMON SPATIAL PATTERN TECHNIQUES. <i>Journal of Mechanics in Medicine and Biology</i> , <b>2017</b> , 17, 1740007	0.7	8
112	Value of soluble Urokinase plasminogen activator receptor over age as a biomarker of impaired myocardial relaxation. <i>BMC Geriatrics</i> , <b>2017</b> , 17, 275	4.1	2
111	A deep convolutional neural network model to classify heartbeats. <i>Computers in Biology and Medicine</i> , <b>2017</b> , 89, 389-396	7	541
110	Comparison of health state values derived from patients and individuals from the general population. <i>Quality of Life Research</i> , <b>2017</b> , 26, 3353-3363	3.7	7
109	Effects of Sacubitril/Valsartan (LCZ696) on Natriuresis, Diuresis, Blood Pressures, and NT-proBNP in Salt-Sensitive Hypertension. <i>Hypertension</i> , <b>2017</b> , 69, 32-41	8.5	55
108	HbH Constant Spring disease has lower serum ferritin relative to liver iron concentration (LIC): importance of LIC measurement and potential impact on serum ferritin thresholds for iron chelation. <i>British Journal of Haematology</i> , <b>2017</b> , 176, 986-988	4.5	6
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