

Kuanquan Wang

List of Publications by Year in descending order

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174
papers

3,591
citations

218677

26
h-index

161849

54
g-index

175
all docs

175
docs citations

175
times ranked

2988
citing authors

#	ARTICLE	IF	CITATIONS
1	Fisherpalms based palmprint recognition. Pattern Recognition Letters, 2003, 24, 2829-2838.	4.2	367
2	Detecting atrial fibrillation by deep convolutional neural networks. Computers in Biology and Medicine, 2018, 93, 84-92.	7.0	247
3	Computerized Tongue Diagnosis Based on Bayesian Networks. IEEE Transactions on Biomedical Engineering, 2004, 51, 1803-1810.	4.2	158
4	A global benchmark of algorithms for segmenting the left atrium from late gadolinium-enhanced cardiac magnetic resonance imaging. Medical Image Analysis, 2021, 67, 101832.	11.6	150
5	Concatenated and Connected Random Forests With Multiscale Patch Driven Active Contour Model for Automated Brain Tumor Segmentation of MR Images. IEEE Transactions on Medical Imaging, 2018, 37, 1943-1954.	8.9	145
6	Multimodal Biometric Authentication Systems Using Convolution Neural Network Based on Different Level Fusion of ECG and Fingerprint. IEEE Access, 2019, 7, 26527-26542.	4.2	145
7	Palm line extraction and matching for personal authentication. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2006, 36, 978-987.	2.9	135
8	Detection of abnormal heart conditions based on characteristics of ECG signals. Measurement: Journal of the International Measurement Confederation, 2018, 125, 634-644.	5.0	121
9	Automatic Cardiac Arrhythmia Classification Using Combination of Deep Residual Network and Bidirectional LSTM. IEEE Access, 2019, 7, 102119-102135.	4.2	120
10	Bidirectional PCA with assembled matrix distance metric for image recognition. IEEE Transactions on Systems, Man, and Cybernetics, 2006, 36, 863-872.	5.0	98
11	A novel two-dimensional ECG feature extraction and classification algorithm based on convolution neural network for human authentication. Future Generation Computer Systems, 2019, 101, 180-196.	7.5	84
12	Automatic Detection of Atrial Fibrillation Based on Continuous Wavelet Transform and 2D Convolutional Neural Networks. Frontiers in Physiology, 2018, 9, 1206.	2.8	82
13	On kernel difference-weighted k-nearest neighbor classification. Pattern Analysis and Applications, 2008, 11, 247-257.	4.6	79
14	Parallel score fusion of ECG and fingerprint for human authentication based on convolution neural network. Computers and Security, 2019, 81, 107-122.	6.0	68
15	Multi-Depth Fusion Network for Whole-Heart CT Image Segmentation. IEEE Access, 2019, 7, 23421-23429.	4.2	66
16	ResNetâ€Attention model for human authentication using ECG signals. Expert Systems, 2021, 38, e12547.	4.5	64
17	Very deep feature extraction and fusion for arrhythmias detection. Neural Computing and Applications, 2018, 30, 2047-2057.	5.6	56
18	A Novel Cryptosystem Based on Iris Key Generation. , 2008, , .		53

#	ARTICLE	IF	CITATIONS
19	Multi-Views Fusion CNN for Left Ventricular Volumes Estimation on Cardiac MR Images. IEEE Transactions on Biomedical Engineering, 2018, 65, 1924-1934.	4.2	51
20	Cancelable biometric authentication system based on ECG. Multimedia Tools and Applications, 2019, 78, 1857-1887.	3.9	44
21	The virtual heart as a platform for screening drug cardiotoxicity. British Journal of Pharmacology, 2015, 172, 5531-5547.	5.4	43
22	Deep Atlas Network for Efficient 3D Left Ventricle Segmentation on Echocardiography. Medical Image Analysis, 2020, 61, 101638.	11.6	38
23	Generating electrocardiogram signals by deep learning. Neurocomputing, 2020, 404, 122-136.	5.9	38
24	A snake-based approach to automated segmentation of tongue image using polar edge detector. International Journal of Imaging Systems and Technology, 2006, 16, 103-112.	4.1	34
25	Detail-Preserving and Content-Aware Variational Multi-View Stereo Reconstruction. IEEE Transactions on Image Processing, 2016, 25, 864-877.	9.8	34
26	Palmpoint Texture Analysis Using Derivative of Gaussian Filters. , 2006, , .		33
27	A cryptosystem based on palmpoint feature. , 2008, , .		32
28	An Iris Cryptosystem for Information Security. , 2008, , .		30
29	Multiscale competitive code for efficient palmpoint recognition. , 2008, , .		29
30	A novel method for the detection of R-peaks in ECG based on K-Nearest Neighbors and Particle Swarm Optimization. Eurasip Journal on Advances in Signal Processing, 2017, 2017, .	1.7	29
31	Computational Cardiac Modeling Reveals Mechanisms of Ventricular Arrhythmogenesis in Long QT Syndrome Type 8: CACNA1C R858H Mutation Linked to Ventricular Fibrillation. Frontiers in Physiology, 2017, 8, 771.	2.8	27
32	Multi-step Cascaded Networks for Brain Tumor Segmentation. Lecture Notes in Computer Science, 2020, , 163-173.	1.3	27
33	Computerized feature quantification of sublingual veins from color sublingual images. Computer Methods and Programs in Biomedicine, 2009, 93, 192-205.	4.7	26
34	Automatic Detection of QRS Complexes Using Dual Channels Based on U-Net and Bidirectional Long Short-Term Memory. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1052-1061.	6.3	26
35	A Combined Fully Convolutional Networks and Deformable Model for Automatic Left Ventricle Segmentation Based on 3D Echocardiography. BioMed Research International, 2018, 2018, 1-16.	1.9	25
36	Post-processed LDA for face and palmpoint recognition: What is the rationale. Signal Processing, 2010, 90, 2344-2352.	3.7	24

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37	A graph-based method for fitting planar B-spline curves with intersections. Journal of Computational Design and Engineering, 2016, 3, 14-23.	3.1	24
38	A Novel Approach of Palm-Line Extraction. , 0, , .		23
39	Fusion of phase and orientation information for palmprint authentication. Pattern Analysis and Applications, 2006, 9, 103-111.	4.6	23
40	A universal texture segmentation and representation scheme based on ant colony optimization for iris image processing. Computers and Mathematics With Applications, 2009, 57, 1862-1868.	2.7	22
41	Notice of Retraction: Iris-Based Medical Analysis by Geometric Deformation Features. IEEE Journal of Biomedical and Health Informatics, 2013, 17, 223-231.	6.3	22
42	Commensal correlation network between segmentation and direct area estimation for bi-ventricle quantification. Medical Image Analysis, 2020, 59, 101591.	11.6	21
43	In silico assessment of the effects of quinidine, disopyramide and E-4031 on short QT syndrome variant 1 in the human ventricles. PLoS ONE, 2017, 12, e0179515.	2.5	21
44	Online signature verification based on null component analysis and principal component analysis. Pattern Analysis and Applications, 2006, 8, 345-356.	4.6	20
45	Parallel Optimization of 3D Cardiac Electrophysiological Model Using GPU. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-10.	1.3	20
46	A Novel Biometric System Based on Hand Vein. , 2010, , .		18
47	VoxelAtlasGAN: 3D Left Ventricle Segmentation on Echocardiography with Atlas Guided Generation and Voxel-to-Voxel Discrimination. Lecture Notes in Computer Science, 2018, , 622-629.	1.3	18
48	A performance evaluation of filter design and coding schemes for palmprint recognition. , 2008, , .		17
49	Sample pair based sparse representation classification for face recognition. Expert Systems With Applications, 2016, 45, 352-358.	7.6	17
50	Combination of Polar Edge Detection and Active Contour Model for Automated Tongue Segmentation. , 0, , .		16
51	Iris localization: Detecting accurate pupil contour and localizing limbus boundary. , 2010, , .		14
52	Effects of Maximal Sodium and Potassium Conductance on the Stability of Hodgkin-Huxley Model. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-9.	1.3	14
53	Transformer Network for Significant Stenosis Detection in CCTA of Coronary Arteries. Lecture Notes in Computer Science, 2021, , 516-525.	1.3	14
54	Modelling the effects of chloroquine on <i>KCNJ2</i>-linked short QT syndrome. Oncotarget, 2017, 8, 106511-106526.	1.8	14

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55	Neuron anatomy structure reconstruction based on a sliding filter. BMC Bioinformatics, 2015, 16, 342.	2.6	12
56	Quick detection of QRS complexes and R-waves using a wavelet transform and K-means clustering. Bio-Medical Materials and Engineering, 2015, 26, S1059-S1065.	0.6	12
57	Fingerprint classification based on a Q-Gaussian multiclass support vector machine. , 2017, , .		12
58	Effects of amiodarone on short QT syndrome variant 3 in human ventricles: a simulation study. BioMedical Engineering OnLine, 2017, 16, 69.	2.7	12
59	Automatic Multi-Label ECG Classification with Category Imbalance and Cost-Sensitive Thresholding. Biosensors, 2021, 11, 453.	4.7	12
60	Reducing false arrhythmia alarms in the ICU using novel signal quality indices assessment method. , 2015, , .		11
61	Improving Whole-Heart CT Image Segmentation by Attention Mechanism. IEEE Access, 2020, 8, 14579-14587.	4.2	11
62	Mechanism underlying impaired cardiac pacemaking rhythm during ischemia: A simulation study. Chaos, 2017, 27, 093934.	2.5	10
63	Bi-directional PCA with assembled matrix distance metric. , 2005, , .		9
64	Improved greedy snake model for detecting accurate pupil contour. , 2011, , .		9
65	Illustrative Cardiac Visualization via Perception-Based Lighting Enhancement. Journal of Medical Imaging and Health Informatics, 2014, 4, 312-316.	0.3	9
66	Influence of the distribution of fibrosis within an area of myocardial infarction on wave propagation in ventricular tissue. Scientific Reports, 2019, 9, 14151.	3.3	9
67	An Automatic Cardiac Segmentation Framework Based on Multi-sequence MR Image. Lecture Notes in Computer Science, 2020, , 220-227.	1.3	9
68	Dynamically constructed network with error correction for accurate ventricle volume estimation. Medical Image Analysis, 2020, 64, 101723.	11.6	9
69	Segmentation of sublingual veins from near infrared sublingual images. , 2008, , .		8
70	Multi-view stereo via depth map fusion: A coordinate decent optimization method. Neurocomputing, 2016, 178, 46-61.	5.9	8
71	An efficient and fast GPU-based algorithm for visualizing large volume of 4D data from virtual heart simulations. Biomedical Signal Processing and Control, 2017, 35, 8-18.	5.7	8
72	Cardiac left ventricular volumes prediction method based on atlas location and deep learning. , 2016, , .		7

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73	A robust statistics driven volume-scalable active contour for segmenting anatomical structures in volumetric medical images with complex conditions. BioMedical Engineering OnLine, 2016, 15, 39.	2.7	7
74	A Mathematical Model of the Mouse Atrial Myocyte With Inter-Atrial Electrophysiological Heterogeneity. Frontiers in Physiology, 2020, 11, 972.	2.8	7
75	Hematoma Expansion Context Guided Intracranial Hemorrhage Segmentation and Uncertainty Estimation. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1140-1151.	6.3	7
76	Approximate entropy based pulse variability analysis. , 0, , .		6
77	Regularization of LDA for Face Recognition: A Post-processing Approach. Lecture Notes in Computer Science, 2005, , 377-391.	1.3	6
78	Fusion of phase and orientation information for palmprint authentication. , 2005, , .		6
79	Real-time interactive heart illustration platform via hardware accelerated rendering. , 2011, , .		6
80	Multi-boundary cardiac data visualization based on multidimensional transfer function with ray distance. Bio-Medical Materials and Engineering, 2014, 24, 3025-3032.	0.6	6
81	EFFECTS OF ACUTE GLOBAL ISCHEMIA ON RE-ENTRANT ARRHYTHMOGENESIS: A SIMULATION STUDY. Journal of Biological Systems, 2015, 23, 213-230.	1.4	6
82	A Visualization System for Interactive Exploration of the Cardiac Anatomy. Journal of Medical Systems, 2016, 40, 135.	3.6	6
83	Performance of novel deep learning network with the incorporation of the automatic segmentation network for diagnosis of breast cancer in automated breast ultrasound. European Radiology, 2022, 32, 7163-7172.	4.5	6
84	Post-processing on LDA's Discriminant Vectors for Facial Feature Extraction. Lecture Notes in Computer Science, 2005, , 346-354.	1.3	5
85	Effective transfer function for interactive visualization and multivariate volume data. , 2011, , .		5
86	A New Approach to Separate Haemodynamic Signals for Brain-Computer Interface Using Independent Component Analysis and Least Squares. Journal of Spectroscopy, 2013, 2013, 1-9.	1.3	5
87	A Pipeline for Neuron Reconstruction Based on Spatial Sliding Volume Filter Seeding. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-8.	1.3	5
88	Combination of linear regression classification and collaborative representation classification. Neural Computing and Applications, 2014, 25, 833-838.	5.6	5
89	Effects of amiodarone on ventricular excitation associated with the KCNJ2-linked short QT syndrome: Insights from a modelling study. , 2015, , .		5
90	How can a sparse representation be made applicable for very low-dimensional data?. Expert Systems With Applications, 2017, 77, 66-70.	7.6	5

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91	A Combined Random Forests and Active Contour Model Approach for Fully Automatic Segmentation of the Left Atrium in Volumetric MRI. BioMed Research International, 2017, 2017, 1-14.	1.9	5
92	Heart failure-induced atrial remodelling promotes electrical and conduction alternans. PLoS Computational Biology, 2020, 16, e1008048.	3.2	5
93	Branch-Aware Double DQN for Centerline Extraction in Coronary CT Angiography. Lecture Notes in Computer Science, 2020, , 35-44.	1.3	5
94	Parameter by Parameter Algorithm for Multilayer Perceptrons. Neural Processing Letters, 2006, 23, 229-242.	3.2	4
95	ONLINE SIGNATURE VERIFICATION BY COMBINING SHAPE CONTEXTS AND LOCAL FEATURES. International Journal of Image and Graphics, 2006, 06, 407-420.	1.5	4
96	Theoretical Investigation on Post-Processed LDA for Face and Palmprint Recognition. , 2007, , .		4
97	A cell counting method for BEVS based on nonlinear Transformed Sliding Band Filter. , 2012, 2012, 118-21.		4
98	Distortion correction in wide-angle images for picture-based food portion size estimation. , 2012, , .		4
99	Computational Analysis of the Action of Chloroquine on Short QT Syndrome Variant 1 and Variant 3 in Human Ventricles. , 2018, 2018, 5462-5465.		4
100	Biological pacemaker: from biological experiments to computational simulation. Journal of Zhejiang University: Science B, 2020, 21, 524-536.	2.8	4
101	The Role of CaMKII Overexpression and Oxidation in Atrial Fibrillation—A Simulation Study. Frontiers in Physiology, 2020, 11, 607809.	2.8	4
102	Reciprocal interaction between IK1 and If in biological pacemakers: A simulation study. PLoS Computational Biology, 2021, 17, e1008177.	3.2	4
103	MULTISCALE WAVELET TEXTURE BASED IRIS VERIFICATION. , 2003, , .		4
104	Coarse iris classification based on box-counting method. , 2005, , .		3
105	A Novel Cryptographic Algorithm Based on Iris Feature. , 2008, , .		3
106	Hilbert-Huang Transform Based Doppler Blood Flow Signals Analysis. , 2009, , .		3
107	A Feature Extraction Method for Recognition of Petechia Dot in Tongue Image. , 2009, , .		3
108	A Bilingual Teaching Modal in a Programing Language Course. , 2009, , .		3

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109	A fast and efficient nearest neighbor method for protein secondary structure prediction. , 2011, , .		3
110	Weighted Nuclear Norm Minimization Based Tongue Specular Reflection Removal. Mathematical Problems in Engineering, 2015, 2015, 1-15.	1.1	3
111	Fusion visualization for cardiac anatomical and ischemic models with depth weighted optic radiation function. , 2015, , .		3
112	Multiview stereo and silhouette fusion via minimizing generalized reprojection error. Image and Vision Computing, 2015, 33, 1-14.	4.5	3
113	Pacemaker Created in Human Ventricle by Depressing Inward-Rectifier K+Current: A Simulation Study. BioMed Research International, 2016, 2016, 1-9.	1.9	3
114	A composite visualization method for electrophysiology-morphous merging of human heart. BioMedical Engineering OnLine, 2017, 16, 70.	2.7	3
115	Evoked Hemodynamic Response Estimation to Auditory Stimulus Using Recursive Least Squares Adaptive Filtering with Multidistance Measurement of Near-Infrared Spectroscopy. Journal of Healthcare Engineering, 2018, 2018, 1-8.	1.9	3
116	Generalizable Beat-by-Beat Arrhythmia Detection by Using Weakly Supervised Deep Learning. Frontiers in Physiology, 2022, 13, 850951.	2.8	3
117	Uncertainty-guided symmetric multi-level supervision network for 3D left atrium segmentation in late gadolinium-enhanced MRI. Medical Physics, 2022, , .	3.0	3
118	Inter-subject registration-based one-shot segmentation with alternating union network for cardiac MRI images. Medical Image Analysis, 2022, 79, 102455.	11.6	3
119	Mechanisms of ventricular arrhythmias elicited by coexistence of multiple electrophysiological remodeling in ischemia: A simulation study. PLoS Computational Biology, 2022, 18, e1009388.	3.2	3
120	Modern researches on pulse waveform of TCPD. , 0, , .		2
121	A Novel Approach to Extract Sublingual Vein from Color Image. , 0, , .		2
122	Recognize a Special Structure in Palmprint for Palm Medicine. Proceedings of the IEEE Symposium on Computer-Based Medical Systems, 2007, , .	0.0	2
123	Biomedical Image Processing: A Cross-Discipline Course for Undergraduate Computer Science and Technology Major. , 2008, , .		2
124	Quantified Vector Oriented Tongue Color Classification. , 2009, , .		2
125	A Novel Contactless Multimodal Biometric System Based on Multiple Hand Features. , 2011, , .		2
126	Prediction of protein secondary structure using large margin nearest neighbor classification. , 2011, , .		2

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127	Visualization using histogram based transfer functions for 3D cardiac volume data set. , 2012, , .		2
128	Bright field microscopic cells counting method for BEVS using nonlinear convergence index sliding band filter. BioMedical Engineering OnLine, 2014, 13, 147.	2.7	2
129	Depth Attenuation Degree Based Visualization for Cardiac Ischemic Electrophysiological Feature Exploration. BioMed Research International, 2016, 2016, 1-8.	1.9	2
130	Effects of long-term fasting and confinement on the cardiovascular activity. Medical and Biological Engineering and Computing, 2021, 59, 1901-1915.	2.8	2
131	Palmprint recognition using directional line energy feature. , 2004, , .		1
132	Directional Gaussian Derivative Filter Based Palmprint Authentication. , 2008, , .		1
133	Median Filtering-Based Quotient Image Model for Face Recognition with Varying Lighting Conditions. , 2009, , .		1
134	Distinguishing Patients with Gastritis and Cholecystitis from the Healthy by Analyzing Wrist Radial Arterial Doppler Blood Flow Signals. , 2010, , .		1
135	Geodesic Connected Graph Representation of 3D Prismatic CAD Models. , 2010, , .		1
136	Sub-Pixel Coded Structured Light Stripe Boundary Location Using Weighted Centroid Method. , 2010, , .		1
137	Template Based Stereo Matching Using Graph-cut. , 2011, , .		1
138	A New Layer by Layer training algorithm for multilayer feedforward neural networks. , 2011, , .		1
139	Heart visualization based on hybrid transfer function using size and gradient. Bio-Medical Materials and Engineering, 2014, 24, 3353-3359.	0.6	1
140	Fast neighbourhood component analysis with spatially smooth regulariser for robust noisy face recognition. IET Biometrics, 2014, 3, 278-290.	2.5	1
141	Visualization of heart from cryosection image based on a hybrid transfer function. , 2014, , .		1
142	Simulation of effects of TBX18 on the pacemaker activity of human ventricular cells. , 2015, , .		1
143	Effects of propafenone on KCNH2-linked short QT syndrome: A modelling study. , 2016, , .		1
144	A Temporal Area Variation Regularized Deep Learning Network for Left Ventricle Segmentation on Cardiac Magnetic Resonance. , 0, , .		1

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145	Precise Pupil Boundary Detection Using Angular Integral Projection and Active Contour Model. , 2018, , .		1
146	Alternans in Mouse Atrial Cardiomyocytes: A Computational Study on the Influence of Cell-Cell Coupling and I ² -Adrenergic Stimulation. IEEE Access, 2020, 8, 84806-84820.	4.2	1
147	A Simulation Study on the Pacing and Driving of the Biological Pacemaker. BioMed Research International, 2020, 2020, 1-9.	1.9	1
148	The Functional Role of Hyperpolarization Activated Current (I _f) on Cardiac Pacemaking in Human vs. in the Rabbit Sinoatrial Node: A Simulation and Theoretical Study. Frontiers in Physiology, 2021, 12, 582037.	2.8	1
149	Effect of Blocking I _{Kur} on the Genesis of Action Potential Alternans in Canine Atrium. , 0, , .		1
150	Parameter by Parameter Algorithm with Goal Programming Method for Neural Network Classifiers. , 0, , .		0
151	Graph based Cross-shape Recognition for Palm Diagnosis. , 2006, , .		0
152	Modular neural network structure with fast training/recognition algorithm for pattern recognition. , 2008, , .		0
153	An Algorithm for Extraction of Near Infrared Sublingual Veins. , 2008, , .		0
154	FCM-based orientation selection for competitive coding-based palmprint recognition. , 2008, , .		0
155	Mathematical Models of the Purkinje Fibre Cell and Simulations. , 2009, , .		0
156	Biometric cryptographic key generation based on city block distance. , 2009, , .		0
157	Rejection algorithm for mixed Chinese/English outliers. , 2010, , .		0
158	Structured light stripe boundary detection using steerable filters. , 2010, , .		0
159	Locally Linear Embedding for the Construction of the Purkinje System. , 2010, , .		0
160	Chinese Keyword Spotting Using Knowledge-Based Clustering. , 2011, , .		0
161	Realistic real-time rendering of human face with environment lighting. , 2012, , .		0
162	An efficient parallel numerical method for large-scale computational models of cardiac electrophysiology. , 2012, , .		0

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163	A novel seeding method based on spatial sliding volume filter for neuron reconstruction. , 2013, , .		0
164	Visualization for Non-linear Enhanced Volume Data. , 2014, , .		0
165	Investigation of the pro-arrhythmic effects of domperidone by a simulation study. , 2015, , .		0
166	GRCVS: A GPU-based and real-time cardiac visualization system. , 2015, , .		0
167	Multi-scale cardiac modelling reveal tachyarrhythmias induced by abrupt rate accelerations in long QT syndrome. , 2016, , .		0
168	A Novel Reconstruction Method of 3D Heart Geometry Atlas Based on Visible Human. , 2017, , .		0
169	Different Effects of Species-dependent Funny Channel Current on Engineered Biological Pacemaking Activity. , 2019, , .		0
170	The Quantitative Relationship among the Number of the Pacing Cells Required, the Dimension, and the Diffusion Coefficient. BioMed Research International, 2020, 2020, 1-11.	1.9	0
171	PALMPRINT VERIFICATION USING WAVELET PACKET. , 2004, , .		0
172	An automated feature extraction method for recognition of Petechia Spot in Tongue Diagnosis. , 2009, , .		0
173	Computational Analysis of the Effects of KCNJ2-linked E299V Mutation Short QT Syndrome and Its Potential Therapeutic Targets. , 2021, , .		0
174	Modeling the Chronotropic Effect of Isoprenaline on Bio-pacemaker: A Simulation Study. , 2021, , .		0