

# Qing Pan

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

489  
citations

933447

10  
h-index

752698

20  
g-index

43  
all docs

43  
docs citations

43  
times ranked

709  
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel data augmentation method to enhance deep neural networks for detection of atrial fibrillation. <i>Biomedical Signal Processing and Control</i> , 2020, 56, 101675.	5.7	78
2	Adjusted weight voting algorithm for random forests in handling missing values. <i>Pattern Recognition</i> , 2017, 69, 52-60.	8.1	69
3	Detection of patient-ventilator asynchrony from mechanical ventilation waveforms using a two-layer long short-term memory neural network. <i>Computers in Biology and Medicine</i> , 2020, 120, 103721.	7.0	48
4	Deep learning-based clustering robustly identified two classes of sepsis with both prognostic and predictive values. <i>EBioMedicine</i> , 2020, 62, 103081.	6.1	39
5	Analytics with artificial intelligence to advance the treatment of acute respiratory distress syndrome. <i>Journal of Evidence-Based Medicine</i> , 2020, 13, 301-312.	1.8	30
6	Do the deceleration/acceleration capacities of heart rate reflect cardiac sympathetic or vagal activity? A model study. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 1921-1933.	2.8	27
7	An interpretable 1D convolutional neural network for detecting patient-ventilator asynchrony in mechanical ventilation. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 204, 106057.	4.7	23
8	A One-Dimensional Mathematical Model for Studying the Pulsatile Flow in Microvascular Networks. <i>Journal of Biomechanical Engineering</i> , 2014, 136, 011009.	1.3	22
9	Lung Mechanics of Mechanically Ventilated Patients With COVID-19: Analytics With High-Granularity Ventilator Waveform Data. <i>Frontiers in Medicine</i> , 2020, 7, 541.	2.6	14
10	Data Augmentation for Deep Learning-Based ECG Analysis. , 2020, , 91-111.		14
11	Identifying Patient's Ventilator Asynchrony on a Small Dataset Using Image-Based Transfer Learning. <i>Sensors</i> , 2021, 21, 4149.	3.8	13
12	A heart failure diagnosis model based on support vector machine. , 2010, , .		12
13	Individualized Mechanical power-based ventilation strategy for acute respiratory failure formalized by finite mixture modeling and dynamic treatment regimen. <i>EClinicalMedicine</i> , 2021, 36, 100898.	7.1	11
14	Enhancing the deceleration capacity index of heart rate by modified-phase-rectified signal averaging. <i>Medical and Biological Engineering and Computing</i> , 2010, 48, 399-405.	2.8	9
15	The degree of heart rate asymmetry is crucial for the validity of the deceleration and acceleration capacity indices of heart rate: A model-based study. <i>Computers in Biology and Medicine</i> , 2016, 76, 39-49.	7.0	7
16	Modeling of pulsatile flow-dependent nitric oxide regulation in a realistic microvascular network. <i>Microvascular Research</i> , 2017, 113, 40-49.	2.5	7
17	Time-pattern design for transmission energy allocation in wireless sensor networks. <i>IET Communications</i> , 2017, 11, 1028-1035.	2.2	7
18	Simulation of microcirculatory hemodynamics: estimation of boundary condition using particle swarm optimization. <i>Bio-Medical Materials and Engineering</i> , 2014, 24, 2341-2347.	0.6	6

#	ARTICLE	IF	CITATIONS
19	Pulse wave velocity in the microcirculation reflects both vascular compliance and resistance: Insights from computational approaches. <i>Microcirculation</i> , 2018, 25, e12458.	1.8	6
20	Investigation into the diversity in the fractal dimensions of arterioles and venules in a microvascular network – A quantitative analysis. <i>Microvascular Research</i> , 2019, 125, 103882.	2.5	6
21	Cumulative oxygen deficit is a novel predictor for the timing of invasive mechanical ventilation in COVID-19 patients with respiratory distress. <i>PeerJ</i> , 2020, 8, e10497.	2.0	5
22	Fast Parameters Estimation in Medication Efficacy Assessment Model for Heart Failure Treatment. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-9.	1.3	4
23	Risk Factors for Patient’s Ventilator Asynchrony and Its Impact on Clinical Outcomes: Analytics Based on Deep Learning Algorithm. <i>Frontiers in Medicine</i> , 2020, 7, 597406.	2.6	4
24	Airway Pressure Release Ventilation Mode Improves Circulatory and Respiratory Function in Patients After Cardiopulmonary Bypass, a Randomized Trial. <i>Frontiers in Physiology</i> , 2021, 12, 684927.	2.8	4
25	A mobile health system design for home and community use. , 2012, , .		3
26	A Sensing Chair design for home based physiological signs monitoring. , 2013, , .		3
27	Caching Efficiency Enhancement at Wireless Edges with Concerns on User’s Quality of Experience. <i>Wireless Communications and Mobile Computing</i> , 2018, 2018, 1-10.	1.2	3
28	Preprocessing Unevenly Sampled RR Interval Signals to Enhance Estimation of Heart Rate Deceleration and Acceleration Capacities in Discriminating Chronic Heart Failure Patients from Healthy Controls. <i>Computational and Mathematical Methods in Medicine</i> , 2020, 2020, 1-10.	1.3	3
29	Combining Sequence Learning and U-Like-Net for Hippocampus Segmentation. <i>Jisuanji Fuzhu Sheji Yu Tuxingxue Xuebao/Journal of Computer-Aided Design and Computer Graphics</i> , 2019, 31, 1382.	0.2	3
30	Development of Novel Fractal Method for Characterizing the Distribution of Blood Flow in Multi-Scale Vascular Tree. <i>Frontiers in Physiology</i> , 2021, 12, 711247.	2.8	2
31	Assessment of respiratory system compliance under pressure control ventilation without an inspiratory pause maneuver. <i>Physiological Measurement</i> , 2021, 42, 08NT01.	2.1	2
32	Pulsatility damping in the microcirculation: Basic pattern and modulating factors. <i>Microvascular Research</i> , 2022, 139, 104259.	2.5	2
33	Visualizing the spatiotemporal pattern of yolk sac membrane vascular network by enhanced local fractal analysis. <i>Microcirculation</i> , 2021, , e12746.	1.8	2
34	Fusion of Multi-Size Candidate Regions Enhances Two-Stage Hippocampus Segmentation. <i>IEEE Access</i> , 2020, 8, 63225-63238.	4.2	1
35	Design of a Portable Apparatus for Assessing Vascular Stiffness. , 2009, , .		0
36	Resampling the RR tachogram enhances the deceleration capacity of heart rate in the assessment of chronic heart failure. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
37	Electrical impedance tomography captures heterogeneous lung ventilation that may be associated with ineffective inspiratory efforts. <i>Critical Care</i> , 2021, 25, 303.	5.8	0
38	Simulation of Blood Pressure Wave Propagation in a Vessel by One-Dimensional Model. <i>IFMBE Proceedings</i> , 2010, , 1366-1369.	0.3	0
39	Transmission of pulsatility in the microcirculation: Where and how damping occurs?. <i>FASEB Journal</i> , 2013, 27, 899.1.	0.5	0
40	Controlling the Inspiration/Expiration Ratio Benefits the Deceleration Capacity Index of Heart Rate in Assessing the Sympatho:vagal Balance. , 0, , .		0
41	Driving pressure variation in mechanical ventilation: Is it associated with ventilaiton associate events?. , 2020, , .		0