Qiang Fang

List of Publications by Year
in descending order

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80	1,080	516710 16	477307 29
papers	citations	h-index	g-index

81	81	81	1004
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A New Approach for Secure Cloud-Based Electronic Health Record and its Experimental Testbed. IEEE Access, 2022, 10, 1082-1095.	4.2	4
2	Application of Machine Learning Algorithms to Disordered Speech. Studies in Big Data, 2022, , 159-178.	1.1	0
3	Error-Related Negativity-Based Robot-Assisted Stroke Rehabilitation System: Design and Proof-of-Concept. Frontiers in Neurorobotics, 2022, 16, 837119.	2.8	0
4	A comparison of machine learning classifiers for smartphone-based gait analysis. Medical and Biological Engineering and Computing, 2021, 59, 535-546.	2.8	14
5	The influence of psychological and cognitive states on error-related negativity evoked during post-stroke rehabilitation movements. BioMedical Engineering OnLine, 2021, 20, 13.	2.7	3
6	Performance Evaluation of Machine Learning Frameworks for Aphasia Assessment. Sensors, 2021, 21, 2582.	3.8	13
7	Classification of error-related potentials evoked during stroke rehabilitation training. Journal of Neural Engineering, 2021, 18, 056022.	3.5	9
8	A Kinematic Data Based Lower Limb Motor Function Evaluation Method for Post-Stroke Rehabilitation. , 2021, 2021, 7288-7291.		1
9	Weakly-supervised lesion analysis with a CNN-based framework for COVID-19. Physics in Medicine and Biology, 2021, 66, 245027.	3.0	2
10	Occupational Therapy Assessment for Upper Limb Rehabilitation: A Multisensor-Based Approach. Frontiers in Digital Health, 2021, 3, 784120.	2.8	4
11	An Efficient Deep Learning Based Method for Speech Assessment of Mandarin-Speaking Aphasic Patients. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 3191-3202.	6.3	18
12	A Hybrid Chaotic Encryption Scheme for Wireless Body Area Networks. IEEE Access, 2020, 8, 183411-183429.	4.2	9
13	A Longitudinal Investigation of the Efficacy of Supported In-Home Post-Stroke Rehabilitation. IEEE Access, 2020, 8, 138690-138700.	4.2	6
14	A Novel Multistandard Compliant Hand Function Assessment Method Using an Infrared Imaging Device. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 758-765.	6.3	20
15	A Review of Error-Related Potential-Based Brainâ€“Computer Interfaces for Motor Impaired People. IEEE Access, 2019, 7, 142451-142466.	4.2	36
16	Error-Related Neural Responses Recorded by Electroencephalography During Post-stroke Rehabilitation Movements. Frontiers in Neurorobotics, 2019, 13, 107.	2.8	14
17	A Soft-Decision Demodulator for WBAN Systems Using Stochastic Computing. , 2019, , .		0
18	A novel fuzzy approach for automatic Brunnstrom stage classification using surface electromyography. Medical and Biological Engineering and Computing, 2017, 55, 1367-1378.	2.8	23

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19	An Investigation on the Effect of Extremely Low Frequency Pulsed Electromagnetic Fields on Human Electrocardiograms (ECGs). International Journal of Environmental Research and Public Health, 2016, 13, 1171.	2.6	4
20	Integration of Bioelectronics and Bioinformatics: Future Direction of Bioengineering Research. Journal of Medical and Biological Engineering, 2016, 36, 751-754.	1.8	4
21	A Fuzzy Kernel Motion Classifier for Autonomous Stroke Rehabilitation. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 893-901.	6.3	31
22	A simplification of Cobelliâ€™s glucoseâ€“insulin model for type 1 diabetes mellitus and its FPGA implementation. Medical and Biological Engineering and Computing, 2016, 54, 1563-1577.	2.8	14
23	A closed-loop micro-stimulator controlled by muscle fatigue status and function impairment level for upper limb rehabilitation. , 2015, , .		3
24	A new insulin-glucose metabolic model of type 1 diabetes mellitus: An in silico study. Computer Methods and Programs in Biomedicine, 2015, 120, 16-26.	4.7	6
25	Objective Assessment of Upper Limb Mobility for Post-stroke Rehabilitation. IEEE Transactions on Biomedical Engineering, 2015, 63, 1-1.	4.2	53
26	Implementation of a Wireless ECG Acquisition SoC for IEEE 802.15.4 (ZigBee) Applications. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 247-255.	6.3	77
27	Application of gait analysis for hemiplegic patients using six-axis wearable inertia sensors. , 2014, , .		2
28	Automated Fugl-Meyer Assessment using SVR model. , 2014, , .		11
29	Implementation of a real-time ECG signal processor. , 2014, , .		7
30	Effect of meal intake on the quality of empirical dynamic models for Type 1 Diabetes. , 2014, , .		1
31	A novel live cell imaging method with sub-cellular resolution for cell-based assays. , 2014, , .		0
32	Fuzzy inference system based automatic Brunnstrom stage classification for upper-extremity rehabilitation. Expert Systems With Applications, 2014, 41, 1973-1980.	7.6	28
33	Comparison study on specific absorption rate of three implantable antennas designed for retinal prosthesis systems. IET Microwaves, Antennas and Propagation, 2013, 7, 886-893.	1.4	3
34	A microstrip antenna designed for implantable body sensor network. , 2013, , .		3
35	Robotic arm for unsupervised stroke rehabilitation: A pilot study using PID controller. , 2013, , .		3
36	Information management system of remote rehabilitation for stroke patients. , 2013, , .		0

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37	A novel mutual information-based similarity measure for 2D/3D registration in image guided intervention. , 2013, , .		3
38	PID control of glucose concentration in subjects with type 1 diabetes based on a simplified model: An in silico trial. , 2012, , .		3
39	Live demonstration: A wireless ECG acquisition SoC. , 2012, , .		0
40	Brunnstrom stage automatic evaluation for stroke patients using extreme learning machine. , 2012, , .		11
41	Motion recognition for unsupervised hand rehabilitation using support vector machine. , 2012, , .		2
42	Implantable multilayer microstrip antenna for retinal prosthesis: Antenna testing. , 2012, 2012, 1679-82.		1
43	A wireless ECG acquisition SoC for body sensor network. , 2012, , .		7
44	A blind equalization algorithm for biological signals transmission. , 2012, 22, 114-123.		8
45	Analog front-end circuit with low-noise amplifier and high-pass sigma-delta modulator for an EEG or ECoG acquisition system. , 2011, , .		10
46	LVQ neural network applied for upper limb motion recognition for home-based stroke rehabilitation. , 2011, , .		1
47	Template matching based motion classification for unsupervised post-stroke rehabilitation. , 2011, , .		13
48	Low-power 13.56 MHz RF front-end circuit for body sensor network. , 2011, , .		1
49	Upper limb motion recognition for unsupervised stroke rehabilitation based on Support Vector Machine. , 2011, , .		3
50	3-layer implantable microstrip antenna optimised for retinal prosthesis system in MICS band. , 2011, , .		10
51	An IEEE 802.15.4 RF transmitter for 2.4 GHz ISM band healthcare applications. , 2011, , .		4
52	Design and simulation of printed spiral coil used in wireless power transmission systems for implant medical devices. , 2011, 2011, 4018-21.		23
53	A Programmable Implantable Microstimulator SoC With Wireless Telemetry: Application in Closed-Loop Endocardial Stimulation for Cardiac Pacemaker. IEEE Transactions on Biomedical Circuits and Systems, 2011, 5, 511-522.	4.0	83
54	Developing a Wireless Implantable Body Sensor Network in MICS Band. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 567-576.	3.2	41

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55	A computationally light-weight real-time classification method to identify different ECG signals. , 2011, , .		4
56	Upper limb motion capturing and classification for unsupervised stroke rehabilitation. , 2011, , .		11
57	A Low-Power RFID Integrated Circuits for Intelligent Healthcare Systems. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 1387-1396.	3.2	60
58	A fast Critical Arrhythmic ECG waveform identification method using cross-correlation and multiple template matching. , 2010, 2010, 1922-5.		9
59	A J2ME Mobile Application for Normal and Abnormal ECG Rhythm Analysis. , 2010, , 86-108.		0
60	An investigation on dielectric properties of major constituents of grape must using electrochemical impedance spectroscopy. European Food Research and Technology, 2009, 229, 887-897.	3.3	14
61	Novel methods of faster cardiovascular diagnosis in wireless telecardiology. IEEE Journal on Selected Areas in Communications, 2009, 27, 537-552.	14.0	79
62	A mobile phone based intelligent scoring approach for assessment of critical illness. , 2008, , .		8
63	A mobile web grid based physiological signal monitoring system. , 2008, , .		12
64	A Mobile Phone Based Intelligent Telemonitoring Platform. , 2006, , .		28
65	Adaptive transmit diversity with orthogonal space-time block coding for telemedicine application. , 2006, Suppl, 6517-20.		1
66	Time-frequency analysis of normal and abnormal biological signals. Biomedical Signal Processing and Control, 2006, 1, 33-43.	5.7	42
67	Computational analysis of DNA photolyases using digital signal processing methods. Molecular Simulation, 2006, 32, 1195-1203.	2.0	4
68	Amplified spontaneous emissions in the double-clad Er:Yt co-doped fiber. , 2005, , .		0
69	Development of a conductive photoresist with a mixture of SU-8 and HCl doped polyaniline. , 2005, , .		5
70	Evaluation of the RRM model using dehydrogenase protein as example. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 341-346.	0.4	1
71	Protein sequence comparison based on the wavelet transform approach. Protein Engineering, Design and Selection, 2002, 15, 193-203.	2.1	64
72	Investigation of the structural and functional relationships of oncogene proteins. Proceedings of the IEEE, 2002, 90, 1859-1867.	21.3	39

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73	The resonant recognition model (RRM) predicts amino acid residues in highly conserved regions of the hormone prolactin (PRL). Biophysical Chemistry, 2000, 84, 149-157.	2.8	35
74	Problems in using FFT versus DFT in the resonant recognition model. , 0, , .		0
75	Analysis of amino acid parameters in the Resonant Recognition Model. , 0, , .		5
76	Prediction of protein active site using digital signal processing methods. , 0, , .		2
77	Modification of the RRM model using wavelets transform and ionisation constant to predict protein active sites. , 0, , .		2
78	Evaluation of different wavelet constructions (designs) for analysis of protein sequences. , 0, , .		3
79	Can short time fourier transform detect the localized latent periodicity of a protein sequence?. , 0, , .		2
80	XQuery Based Intelligent Search System for Genomic Data Retrieval. , 0, , .		0