

Xiaopeng Zhao

List of Publications by Citations

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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.

66

papers

1,424

citations

19

h-index

36

g-index

70

ext. papers

1,750

ext. citations

3.5

avg, IF

4.88

L-index

#	Paper	IF	Citations
66	A comprehensive review of EEG-based brain-computer interface paradigms. <i>Journal of Neural Engineering</i> , 2019 , 16, 011001	5	206
65	Local analysis of co-dimension-one and co-dimension-two grazing bifurcations in impact microactuators. <i>Physica D: Nonlinear Phenomena</i> , 2005 , 202, 238-257	3.3	110
64	A reduced-order model for electrically actuated microplates. <i>Journal of Micromechanics and Microengineering</i> , 2004 , 14, 900-906	2	102
63	Spectral and complexity analysis of scalp EEG characteristics for mild cognitive impairment and early Alzheimer's disease. <i>Computer Methods and Programs in Biomedicine</i> , 2014 , 114, 153-63	6.9	84
62	Cloud-ECG for real time ECG monitoring and analysis. <i>Computer Methods and Programs in Biomedicine</i> , 2013 , 110, 253-9	6.9	72
61	Human impact on the diversity and virulence of the ubiquitous zoonotic parasite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E6956-E6963	11.5	59
60	Unfolding degenerate grazing dynamics in impact actuators. <i>Nonlinearity</i> , 2006 , 19, 399-418	1.7	55
59	Modeling and simulation methodology for impact microactuators. <i>Journal of Micromechanics and Microengineering</i> , 2004 , 14, 775-784	2	52
58	Sugihara causality analysis of scalp EEG for detection of early Alzheimer's disease. <i>NeuroImage: Clinical</i> , 2015 , 7, 258-65	5.3	39
57	Co-dimension-Two Grazing Bifurcations in Single-Degree-of-Freedom Impact Oscillators. <i>Journal of Computational and Nonlinear Dynamics</i> , 2006 , 1, 328-335	1.4	39
56	Resting EEG discrimination of early stage Alzheimer's disease from normal aging using inter-channel coherence network graphs. <i>Annals of Biomedical Engineering</i> , 2013 , 41, 1233-42	4.7	35
55	The influence of body mass index and velocity on knee biomechanics during walking. <i>Gait and Posture</i> , 2013 , 37, 575-9	2.6	35
54	Near-grazing dynamics in tapping-mode atomic-force microscopy. <i>International Journal of Non-Linear Mechanics</i> , 2007 , 42, 697-709	2.8	34
53	An agent-based model for the transmission dynamics of <i>Toxoplasma gondii</i> . <i>Journal of Theoretical Biology</i> , 2012 , 293, 15-26	2.3	27
52	Tuning Up the Old Brain with New Tricks: Attention Training via Neurofeedback. <i>Frontiers in Aging Neuroscience</i> , 2017 , 9, 52	5.3	27
51	Period-doubling bifurcation to alternans in paced cardiac tissue: crossover from smooth to border-collision characteristics. <i>Physical Review Letters</i> , 2007 , 99, 058101	7.4	25
50	Characterization of English ivy (<i>Hedera helix</i>) adhesion force and imaging using atomic force microscopy. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 1029-1037	2.3	22

49	Characterization of Intermittent Contact in Tapping-Mode Atomic Force Microscopy. <i>Journal of Computational and Nonlinear Dynamics</i> , 2006 , 1, 109-115	1.4	21
48	Discrimination of mild cognitive impairment and Alzheimer's disease using transfer entropy measures of scalp EEG. <i>Journal of Healthcare Engineering</i> , 2015 , 6, 55-70	3.7	20
47	A Systematic Review of Robotic Rehabilitation for Cognitive Training. <i>Frontiers in Robotics and AI</i> , 2021 , 8, 605715	2.8	19
46	Matrix of regularity for improving the quality of ECGs. <i>Physiological Measurement</i> , 2012 , 33, 1535-48	2.9	18
45	Reconstruction of physiological signals using iterative retraining and accumulated averaging of neural network models. <i>Physiological Measurement</i> , 2011 , 32, 661-75	2.9	18
44	Indeterminacy of spatiotemporal cardiac alternans. <i>Physical Review E</i> , 2008 , 78, 011902	2.4	17
43	Adhesion mechanics of ivy nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2010 , 344, 533-40	9.3	16
42	Control of Impact Microactuators for Precise Positioning. <i>Journal of Computational and Nonlinear Dynamics</i> , 2006 , 1, 65-70	1.4	16
41	Spatiotemporal evolution and prediction of $[Ca^{2+}]_i$ and APD alternans in isolated rabbit hearts. <i>Journal of Cardiovascular Electrophysiology</i> , 2013 , 24, 1287-95	2.7	14
40	Agricultural landscape and spatial distribution of <i>Toxoplasma gondii</i> in rural environment: an agent-based model. <i>International Journal of Health Geographics</i> , 2014 , 13, 45	3.5	14
39	Alternate Pacing of Border-Collision Period-Doubling Bifurcations. <i>Nonlinear Dynamics</i> , 2007 , 50, 733-743		13
38	A systematic review on hybrid EEG/fNIRS in brain-computer interface. <i>Biomedical Signal Processing and Control</i> , 2021 , 68, 102595	4.9	13
37	Automatic detection of ECG electrode misplacement: a tale of two algorithms. <i>Physiological Measurement</i> , 2012 , 33, 1549-61	2.9	12
36	Modeling effective transmission pathways and control of the world's most successful parasite. <i>Theoretical Population Biology</i> , 2013 , 86, 50-61	1.2	12
35	Estimating eigenvalues of dynamical systems from time series with applications to predicting cardiac alternans. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012 , 468, 3649-3666	2.4	12
34	A Usability Study of Low-cost Wireless Brain-Computer Interface for Cursor Control Using Online Linear Model. <i>IEEE Transactions on Human-Machine Systems</i> , 2020 , 50, 287-297	4.1	11
33	Evolutionary game theoretic strategy for optimal drug delivery to influence selection pressure in treatment of HIV-1. <i>Journal of Mathematical Biology</i> , 2012 , 64, 495-512	2	11
32	Evidence for finely-regulated asynchronous growth of <i>Toxoplasma gondii</i> cysts based on data-driven model selection. <i>PLoS Computational Biology</i> , 2013 , 9, e1003283	5	11

31	Control of pore radius regulation for electroporation-based drug delivery. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010 , 15, 1400-1407	3.7	10
30	Brain computer interface for gesture control of a social robot: An offline study 2017 ,		9
29	Nonlinear dynamics of periodically paced cardiac tissue. <i>Nonlinear Dynamics</i> , 2012 , 68, 347-363	5	9
28	Cardiac Alternans Arising From an Unfolded Border-Collision Bifurcation. <i>Journal of Computational and Nonlinear Dynamics</i> , 2008 , 3, 041004	1.4	9
27	Small-Signal Amplification of Period-Doubling Bifurcations in Smooth Iterated Maps. <i>Nonlinear Dynamics</i> , 2007 , 48, 381-389	5	9
26	A mathematical model for within-host <i>Toxoplasma gondii</i> invasion dynamics. <i>Mathematical Biosciences and Engineering</i> , 2012 , 9, 647-62	2.1	9
25	Brain connectivity evaluation during selective attention using EEG-based brain-computer interface. <i>Brain-Computer Interfaces</i> , 2019 , 6, 25-35	2	8
24	Decoding Attentional State to Faces and Scenes Using EEG Brainwaves. <i>Complexity</i> , 2019 , 2019, 1-10	1.6	7
23	Characterizing Spatial Dynamics of Bifurcation to Alternans in Isolated Whole Rabbit Hearts Based on Alternate Pacing. <i>BioMed Research International</i> , 2015 , 2015, 170768	3	7
22	A Real-Time Brainwave Based Neuro-Feedback System for Cognitive Enhancement 2015 ,		7
21	Immunodominance analysis through interactions of CD8+ T cells and DCs in lymph nodes. <i>Mathematical Biosciences</i> , 2010 , 225, 53-8	3.9	7
20	Optimizing Prediction Model for a Noninvasive Brain-Computer Interface Platform Using Channel Selection, Classification, and Regression. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019 , 23, 2475-2482	7.2	6
19	Memory-Related Frontal Brainwaves Predict Transition to Mild Cognitive Impairment in Healthy Older Individuals Five Years Before Diagnosis. <i>Journal of Alzheimer's Disease</i> , 2021 , 79, 531-541	4.3	6
18	Asymptotic approximation of an ionic model for cardiac restitution. <i>Nonlinear Dynamics</i> , 2008 , 51, 189-198	3.9	4
17	Social Robots for Older Adults with Dementia: A Narrative Review on Challenges & Future Directions. <i>Lecture Notes in Computer Science</i> , 2021 , 411-420	0.9	4
16	Sequence-based manipulation of robotic arm control in brain machine interface. <i>International Journal of Intelligent Robotics and Applications</i> , 2018 , 2, 149-160	1.7	3
15	2013 ,		3
14	Real-Time Brain Machine Interaction via Social Robot Gesture Control 2017 ,		2

13	Using dominant eigenvalue analysis to predict formation of alternans in the heart. <i>Physical Review E</i> , 2013 , 88, 052716	2.4	2
12	Dynamics and control of the two-pulse protocol in electroporation: numerical exploration. <i>Mathematical Biosciences</i> , 2011 , 232, 24-30	3.9	2
11	Assessing the Acceptability of a Humanoid Robot for Alzheimer's Disease and Related Dementia Care Using an Online Survey. <i>International Journal of Social Robotics</i> , 2011 , 1	4	2
10	Guidelines for Controlling Pore Radii From Nonlinear Analysis of a Two-Dimensional Model of Electroporation 2007 ,		2
9	Discontinuity Mapping for Near-Grazing Dynamics in Vibro-Impact Oscillators. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2009 , 275-285	0.3	2
8	Interoperable executive library for the simulation of biomedical processes. <i>Journal of Computational and Applied Mathematics</i> , 2014 , 270, 257-274	2.4	1
7	Multiparameter physiological signal reconstruction using NARX Neural Networks 2011 ,		1
6	Learning-Based Strategy Design for Robot-Assisted Reminiscence Therapy Based on a Developed Model for People with Dementia. <i>Lecture Notes in Computer Science</i> , 2021 , 432-442	0.9	1
5	Gauging Working Memory Capacity From Differential Resting Brain Oscillations in Older Individuals With A Wearable Device. <i>Frontiers in Aging Neuroscience</i> , 2021 , 13, 625006	5.3	1
4	Sharpening Working Memory With Real-Time Electrophysiological Brain Signals: Which Neurofeedback Paradigms Work?. <i>Frontiers in Aging Neuroscience</i> , 2022 , 14, 780817	5.3	0
3	Prediction of mortality associated with early onset pneumonia in Acute Myocardial Infarction. <i>Informatics in Medicine Unlocked</i> , 2019 , 16, 100211	5.3	
2	A shooting algorithm for complex immunodominance control problems. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 3897-900	0.9	
1	A computational approach for understanding immune response to multiple epitopes based on optimal control formulation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010 , 15, 4209-4218	3.7	