

Xiaopeng Zhao

List of Publications by Year in descending order

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69
papers

2,127
citations

304368

22
h-index

243296

44
g-index

70
all docs

70
docs citations

70
times ranked

2293
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive review of EEG-based brain-computer interface paradigms. <i>Journal of Neural Engineering</i> , 2019, 16, 011001.	1.8	512
2	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.	1.3	123
3	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, 153-163.	2.6	120
4	A reduced-order model for electrically actuated microplates. <i>Journal of Micromechanics and Microengineering</i> , 2004, 14, 900-906.	1.5	112
5	Human impact on the diversity and virulence of the ubiquitous zoonotic parasite <i>Toxoplasma gondii</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6956-E6963.	3.3	99
6	Cloud-ECG for real time ECG monitoring and analysis. <i>Computer Methods and Programs in Biomedicine</i> , 2013, 110, 253-259.	2.6	95
7	Unfolding degenerate grazing dynamics in impact actuators. <i>Nonlinearity</i> , 2006, 19, 399-418.	0.6	61
8	Modeling and simulation methodology for impact microactuators. <i>Journal of Micromechanics and Microengineering</i> , 2004, 14, 775-784.	1.5	60
9	Sugihara causality analysis of scalp EEG for detection of early Alzheimer's disease. <i>NeuroImage: Clinical</i> , 2015, 7, 258-265.	1.4	58
10	Co-dimension-Two Grazing Bifurcations in Single-Degree-of-Freedom Impact Oscillators. <i>Journal of Computational and Nonlinear Dynamics</i> , 2006, 1, 328-335.	0.7	46
11	A Systematic Review of Robotic Rehabilitation for Cognitive Training. <i>Frontiers in Robotics and AI</i> , 2021, 8, 605715.	2.0	45
12	Near-grazing dynamics in tapping-mode atomic-force microscopy. <i>International Journal of Non-Linear Mechanics</i> , 2007, 42, 697-709.	1.4	44
13	The influence of body mass index and velocity on knee biomechanics during walking. <i>Gait and Posture</i> , 2013, 37, 575-579.	0.6	44
14	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, 1233-1242.	1.3	41
15	Tuning Up the Old Brain with New Tricks: Attention Training via Neurofeedback. <i>Frontiers in Aging Neuroscience</i> , 2017, 9, 52.	1.7	40
16	A systematic review on hybrid EEG/fNIRS in brain-computer interface. <i>Biomedical Signal Processing and Control</i> , 2021, 68, 102595.	3.5	40
17	An agent-based model for the transmission dynamics of <i>Toxoplasma gondii</i> . <i>Journal of Theoretical Biology</i> , 2012, 293, 15-26.	0.8	34
18	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.	1.1	32

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19	Period-Doubling Bifurcation to Alternans in Paced Cardiac Tissue: Crossover from Smooth to Border-Collision Characteristics. <i>Physical Review Letters</i> , 2007, 99, 058101.	2.9	29
20	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.	0.8	26
21	Reconstruction of physiological signals using iterative retraining and accumulated averaging of neural network models. <i>Physiological Measurement</i> , 2011, 32, 661-675.	1.2	24
22	Characterization of Intermittent Contact in Tapping-Mode Atomic Force Microscopy. <i>Journal of Computational and Nonlinear Dynamics</i> , 2006, 1, 109-115.	0.7	23
23	Matrix of regularity for improving the quality of ECGs. <i>Physiological Measurement</i> , 2012, 33, 1535-1548.	1.2	22
24	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.	1.2	22
25	Adhesion mechanics of ivy nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2010, 344, 533-540.	5.0	20
26	Spatiotemporal Evolution and Prediction of $[Ca^{2+}]_i$ and APD Alternans in Isolated Rabbit Hearts. <i>Journal of Cardiovascular Electrophysiology</i> , 2013, 24, 1287-1295.	0.8	19
27	Modeling effective transmission pathways and control of the world's most successful parasite. <i>Theoretical Population Biology</i> , 2013, 86, 50-61.	0.5	19
28	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.	2.5	19
29	Control of Impact Microactuators for Precise Positioning. <i>Journal of Computational and Nonlinear Dynamics</i> , 2006, 1, 65-70.	0.7	18
30	Indeterminacy of spatiotemporal cardiac alternans. <i>Physical Review E</i> , 2008, 78, 011902.	0.8	18
31	Alternate pacing of border-collision period-doubling bifurcations. <i>Nonlinear Dynamics</i> , 2007, 50, 733-742.	2.7	15
32	Automatic detection of ECG electrode misplacement: a tale of two algorithms. <i>Physiological Measurement</i> , 2012, 33, 1549-1561.	1.2	15
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.	0.8	14
34	Control of pore radius regulation for electroporation-based drug delivery. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010, 15, 1400-1407.	1.7	13
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.	1.0	12
36	Nonlinear dynamics of periodically paced cardiac tissue. <i>Nonlinear Dynamics</i> , 2012, 68, 347-363.	2.7	12

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37	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.	1.5	12
38	Brain computer interface for gesture control of a social robot: An offline study. , 2017, , .		12
39	Brain connectivity evaluation during selective attention using EEG-based brain-computer interface. <i>Brain-Computer Interfaces</i> , 2019, 6, 25-35.	0.9	12
40	A mathematical model for within-host <i>Toxoplasma gondii</i> invasion dynamics. <i>Mathematical Biosciences and Engineering</i> , 2012, 9, 647-662.	1.0	11
41	Decoding Attentional State to Faces and Scenes Using EEG Brainwaves. <i>Complexity</i> , 2019, 2019, 1-10.	0.9	10
42	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> , 2022, 14, 1223-1237.	3.1	10
43	Small-signal amplification of period-doubling bifurcations in smooth iterated maps. <i>Nonlinear Dynamics</i> , 2007, 48, 381-389.	2.7	9
44	Cardiac Alternans Arising From an Unfolded Border-Collision Bifurcation. <i>Journal of Computational and Nonlinear Dynamics</i> , 2008, 3, 041004.	0.7	9
45	Immunodominance analysis through interactions of CD8+ T cells and DCs in lymph nodes. <i>Mathematical Biosciences</i> , 2010, 225, 53-58.	0.9	9
46	Characterizing Spatial Dynamics of Bifurcation to Alternans in Isolated Whole Rabbit Hearts Based on Alternate Pacing. <i>BioMed Research International</i> , 2015, 2015, 1-8.	0.9	9
47	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.	3.9	9
48	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.	1.2	9
49	A Real-Time Brainwave Based Neuro-Feedback System for Cognitive Enhancement. , 2015, , .		8
50	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.	1.7	8
51	Social Robots for Older Adults with Dementia: A Narrative Review on Challenges & Future Directions. <i>Lecture Notes in Computer Science</i> , 2021, , 411-420.	1.0	8
52	Asymptotic approximation of an ionic model for cardiac restitution. <i>Nonlinear Dynamics</i> , 2007, 51, 189-198.	2.7	5
53	Discontinuity Mapping for Near-Grazing Dynamics in Vibro-Impact Oscillators. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2009, , 275-285.	2.0	5
54	Sharpening Working Memory With Real-Time Electrophysiological Brain Signals: Which Neurofeedback Paradigms Work?. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, 780817.	1.7	5

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55	Real-Time Brain Machine Interaction via Social Robot Gesture Control. , 2017, , .		4
56	Sequence-based manipulation of robotic arm control in brain machine interface. International Journal of Intelligent Robotics and Applications, 2018, 2, 149-160.	1.6	4
57	Scalp EEG signal reconstruction for detection of mild cognitive impairment and early Alzheimer's disease. , 2013, , .		3
58	Dynamics and control of the two-pulse protocol in electroporation: Numerical exploration. Mathematical Biosciences, 2011, 232, 24-30.	0.9	2
59	Using dominant eigenvalue analysis to predict formation of alternans in the heart. Physical Review E, 2013, 88, 052716.	0.8	2
60	Guidelines for Controlling Pore Radii From Nonlinear Analysis of a Two-Dimensional Model of Electroporation. , 2007, , .		2
61	Learning-Based Strategy Design for Robot-Assisted Reminiscence Therapy Based on a Developed Model for People with Dementia. Lecture Notes in Computer Science, 2021, , 432-442.	1.0	2
62	Multiparameter physiological signal reconstruction using NARX Neural Networks. , 2011, , .		1
63	Interoperable executive library for the simulation of biomedical processes. Journal of Computational and Applied Mathematics, 2014, 270, 257-274.	1.1	1
64	Modelling the Nonlinear Dynamics of Electrically Driven Impact Microactuators. , 0, , .		0
65	A shooting algorithm for complex immunodominance control problems. , 2009, 2009, 3897-900.		0
66	A computational approach for understanding immune response to multiple epitopes based on optimal control formulation. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 4209-4218.	1.7	0
67	Parallel FEM Simulation of Electromechanics in the Heart. , 2011, , .		0
68	Prediction of ICU In-Hospital Mortality Using Artificial Neural Networks. , 2013, , .		0
69	Prediction of mortality associated with early onset pneumonia in Acute Myocardial Infarction. Informatics in Medicine Unlocked, 2019, 16, 100211.	1.9	0