

Kenneth A Loparo

List of Publications by Year in Descending Order

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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.

256
papers

5,824
citations

42
h-index

67
g-index

301
ext. papers

7,165
ext. citations

4.3
avg, IF

6.09
L-index

#	Paper	IF	Citations
256	Oscillation suppression effects of intermittent noisy deep brain stimulation induced by coordinated reset pattern based on a computational model. <i>Biomedical Signal Processing and Control</i> , 2022 , 73, 103466	4.9	0
255	A Two-Level Model Predictive Control-Based Approach for Building Energy Management including Photovoltaics, Energy Storage, Solar Forecasting and Building Loads. <i>Energies</i> , 2022 , 15, 3521	3.1	
254	Adaptive closed-loop control strategy inhibiting pathological basal ganglia oscillations. <i>Biomedical Signal Processing and Control</i> , 2022 , 77, 103776	4.9	1
253	Delayed Feedback-Based Suppression of Pathological Oscillations in a Neural Mass Model. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 5046-5056	10.2	4
252	Hyperventilation Increases the Randomness of Ocular Palatal Tremor Waveforms. <i>Cerebellum</i> , 2021 , 20, 780-787	4.3	2
251	Closing the loop of DBS using the beta oscillations in cortex. <i>Cognitive Neurodynamics</i> , 2021 , 15, 1157-1167	1.7	1
250	Gabapentin and memantine increases randomness of oscillatory waveform in ocular palatal tremor. <i>Journal of Computational Neuroscience</i> , 2021 , 49, 319-331	1.4	2
249	BiCoSS: Toward Large-Scale Cognition Brain With Multigranular Neuromorphic Architecture. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , PP,	10.3	54
248	A new quantitative load profile measure for demand response performance evaluation. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 121, 106073	5.1	4
247	A Highly Digital Multiantenna Ground-Penetrating Radar (GPR) System. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 7422-7436	5.2	11
246	Agent-Based Privacy Preserving Transactive Control for Managing Peak Power Consumption. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 4883-4890	10.7	4
245	Voltage Regulation of DC-Microgrid With PV and Battery. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 4662-4675	10.7	9
244	INSMA: An integrated system for multimodal data acquisition and analysis in the intensive care unit. <i>Journal of Biomedical Informatics</i> , 2020 , 106, 103434	10.2	7
243	Conversational Structure Aware and Context Sensitive Topic Model for Online Discussions 2020 ,		3
242	A Decentralized Three-Level Optimization Scheme for Optimal Planning of a Prosumer Nano-Grid. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 3421-3432	7	8
241	Transitive Topic Modeling with Conversational Structure Context: Discovering Topics that are Most Popular in Online Discussions. <i>International Journal of Semantic Computing</i> , 2020 , 14, 273-293	0.7	
240	Co-designed Incentives for an Aimed Renewable Energy Contribution and Volunteer Load Shedding. <i>IET Renewable Power Generation</i> , 2020 , 14, 2287-2295	2.9	0

239	Continuous EEG Monitoring and Quantitative EEG Techniques 2020 , 79-109		1
238	Data Collection and Analysis in the ICU 2020 , 111-134		3
237	Novel Fault Models for Electronically Coupled Distributed Energy Resources and Their Laboratory Validation. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 1209-1217	7	11
236	Application of Reinforcement Learning to Deep Brain Stimulation in a Computational Model of Parkinson's Disease. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020 , 28, 339-349	4.8	10
235	Interpretable Convolutional Neural Network Through Layer-wise Relevance Propagation for Machine Fault Diagnosis. <i>IEEE Sensors Journal</i> , 2020 , 20, 3172-3181	4	26
234	The role of coupling connections in a model of the cortico-basal ganglia-thalamocortical neural loop for the generation of beta oscillations. <i>Neural Networks</i> , 2020 , 123, 381-392	9.1	6
233	ESatellite: An AI-Driven System and Benchmark Datasets for Dynamic COVID-19 Risk Assessment in the United States. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020 , 24, 2755-2764	7.2	24
232	Neural Network-Based Closed-Loop Deep Brain Stimulation for Modulation of Pathological Oscillation in Parkinson's Disease. <i>IEEE Access</i> , 2020 , 8, 161067-161079	3.5	8
231	A Scalable Pavement Sensing, Data Analytics, and Visualization Platform for Lean Governance in Smart Communities 2020 ,		1
230	Statistical Steady-State Stability Analysis for Transmission System Planning for Offshore Wind Power Plant Integration. <i>Clean Technologies</i> , 2020 , 2, 311-332	3.4	
229	Scalable Digital Neuromorphic Architecture for Large-Scale Biophysically Meaningful Neural Network With Multi-Compartment Neurons. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 148-162	10.3	146
228	Eliminating Search Intent Bias in Learning to Rank 2020 ,		2
227	Topic Shift Detection in Online Discussions using Structural Context 2019 ,		4
226	Information Extraction from Free Text in Clinical Trials with Knowledge-Based Distant Supervision 2019 ,		9
225	Context Aware Image Annotation in Active Learning with Batch Mode 2019 ,		8
224	Bifurcation Analysis of DC Electric Power Systems for Deep Space Exploration Spacecraft 2019 ,		3
223	Resting-State Quantitative Electroencephalography Demonstrates Differential Connectivity in Adolescents with Major Depressive Disorder. <i>Journal of Child and Adolescent Psychopharmacology</i> , 2019 , 29, 370-377	2.9	7
222	Incidence, Recurrence, and Risk Factors for Peri-ictal Central Apnea and Sudden Unexpected Death in Epilepsy. <i>Frontiers in Neurology</i> , 2019 , 10, 166	4.1	31

221	Collection and Analysis of Multimodal Data for SUDEP Biomarker Discovery 2019 , 3,		1
220	Ventilatory pattern variability as a biometric for severity of acute lung injury in rats. <i>Respiratory Physiology and Neurobiology</i> , 2019 , 265, 161-171	2.8	4
219	Modeling challenges and potential solutions for integration of emerging DERs in DMS applications: power flow and short-circuit analysis. <i>Journal of Modern Power Systems and Clean Energy</i> , 2019 , 7, 1365-1384	4.3	2
218	Noise-Induced Improvement of the Parkinsonian State: A Computational Study. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 3655-3664	10.2	7
217	Integration of renewable energy systems and challenges for dynamics, control, and automation of electrical power systems. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2019 , 8, e321	4.7	19
216	. <i>IEEE Transactions on Fuzzy Systems</i> , 2019 , 27, 304-318	8.3	19
215	A Clicked-URL Feature for Transactional Query Identification 2019 ,		5
214	Power Sharing Based Control of Hybrid Wind-Diesel Standalone Systems 2019 ,		1
213	Learning - based Adaptation Framework for Elastic Software Systems 2019 ,		5
212	Opinion Spam Detection Based on Heterogeneous Information Network 2019 ,		11
211	Voltage Regulation of DC-Microgrid with PV and Battery: A Passivity Method. <i>IFAC-PapersOnLine</i> , 2019 , 52, 753-758	0.7	3
210	. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 193-202	4.3	5
209	. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 182-192	4.3	7
208	. <i>IEEE Systems Journal</i> , 2019 , 13, 3070-3079	4.3	5
207	2019 , 3, 1-4		3
206	Neonatal intermittent hypoxemia events are associated with diagnosis of bronchopulmonary dysplasia at 36 weeks postmenstrual age. <i>Pediatric Research</i> , 2019 , 85, 318-323	3.2	30
205	Forward and backward extended Prony method for complex exponential signals with/without additive noise 2019 , 86, 42-54		2
204	A swarm intelligence-based approach to anomaly detection of dynamic systems. <i>Swarm and Evolutionary Computation</i> , 2019 , 44, 806-827	9.8	4

203	Voltage and Frequency Regulation of Microgrid With Battery Energy Storage Systems. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 414-424	10.7	51
202	Real-Time Neuromorphic System for Large-Scale Conductance-Based Spiking Neural Networks. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 2490-2503	10.2	66
201	Transmission system protection screening for integration of offshore wind power plants. <i>Renewable Energy</i> , 2018 , 125, 225-233	8.1	9
200	Automated Detection of Postictal Generalized EEG Suppression. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 371-377	5	23
199	Evaluation of an automated pipeline for large-scale EEG spectral analysis: the National Sleep Research Resource. <i>Sleep Medicine</i> , 2018 , 47, 126-136	4.6	5
198	Modeling and Analysis of Beta Oscillations in the Basal Ganglia. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 1864-1875	10.3	6
197	Detecting destabilizing wheelchair conditions for maintaining seated posture. <i>Disability and Rehabilitation: Assistive Technology</i> , 2018 , 13, 178-185	1.8	4
196	Sequence Domain Calculation of Active Unbalanced Distribution Systems Affected by Complex Short Circuits. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 1891-1902	7	13
195	Periodicity: A Characteristic of Heart Rate Variability Modified by the Type of Mechanical Ventilation After Acute Lung Injury. <i>Frontiers in Physiology</i> , 2018 , 9, 772	4.6	
194	Mathematical Modeling for Description of Oscillation Suppression Induced by Deep Brain Stimulation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 , 26, 1649-1658	4.8	5
193	Cortical Structures Associated With Human Blood Pressure Control. <i>JAMA Neurology</i> , 2018 , 75, 194-202	17.2	36
192	An Information-Theoretic Framework for Complex Systems. <i>Mechanical Engineering</i> , 2018 , 140, S16-S23	0.9	
191	Post-ictal Modulation of Baroreflex Sensitivity in Patients With Intractable Epilepsy. <i>Frontiers in Neurology</i> , 2018 , 9, 793	4.1	10
190	Closed-Loop Modulation of the Pathological Disorders of the Basal Ganglia Network. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2017 , 28, 371-382	10.3	21
189	Polysomnographic Heart Rate Variability Indices and Atrial Ectopy Associated with Incident Atrial Fibrillation Risk in Older Community-dwelling Men. <i>JACC: Clinical Electrophysiology</i> , 2017 , 3, 451-460	4.6	12
188	Forward and Backward Extended Prony (FBEP) Method for Power System Small-Signal Stability Analysis. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 3618-3626	7	22
187	Neural mass models describing possible origin of the excessive beta oscillations correlated with Parkinsonian state. <i>Neural Networks</i> , 2017 , 88, 65-73	9.1	21
186	Emerging distribution systems: Modeling challenges in faulted conditions 2017 ,		1

185	Real-time personalized cardiac arrhythmia detection and diagnosis: A cloud computing architecture 2017 ,		11
184	A Framework for Patient State Tracking by Classifying Multiscalar Physiologic Waveform Features. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 2890-2900	5	5
183	Investigating Synchronous Oscillation and Deep Brain Stimulation Treatment in A Model of Cortico-Basal Ganglia Network. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017 , 25, 1950-1958	4.8	6
182	Efficient implementation of a real-time estimation system for thalamocortical hidden Parkinsonian properties. <i>Scientific Reports</i> , 2017 , 7, 40152	4.9	10
181	Cascading Failure Attacks in the Power System: A Stochastic Game Perspective. <i>IEEE Internet of Things Journal</i> , 2017 , 4, 2247-2259	10.7	44
180	0763 AUTOMATED PIPELINE FOR SPECTRAL ANALYSIS OF EEG DATA: THE NATIONAL SLEEP RESEARCH RESOURCE TOOL. <i>Sleep</i> , 2017 , 40, A283-A283	1.1	
179	The need for advanced modeling and calculation of basic EMS and DMS applications for electronically coupled energy resources 2017 ,		2
178	. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 3237-3245	7	27
177	A Multi-center Physiological Data Repository for SUDEP: Data Curation, Data Conversion and Workflow. <i>Communications in Computer and Information Science</i> , 2017 , 66-75	0.3	
176	Automated detection of atrial fibrillation from the electrocardiogram channel of polysomnograms. <i>Sleep and Breathing</i> , 2016 , 20, 515-22	3.1	2
175	. <i>IEEE Transactions on Smart Grid</i> , 2016 , 7, 1044-1056	10.7	28
174	An automated approach for bearing damage detection. <i>JVC/Journal of Vibration and Control</i> , 2016 , 22, 3253-3266	2	5
173	Feeder Reconfiguration for Unbalanced Distribution Systems With Distributed Generation: A Hierarchical Decentralized Approach. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 1633-1642	7	53
172	Design and Development of a Smart Exercise Bike for Motor Rehabilitation in Individuals with Parkinson's Disease. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016 , 21, 1650-1658	5.5	13
171	An emulator for fixed pitch wind turbine studies. <i>Renewable Energy</i> , 2016 , 87, 391-402	8.1	19
170	Analysis and Enhancements of a Prolific Macroscopic Model of Epilepsy. <i>Scientifica</i> , 2016 , 2016, 36282472.6		
169	NeuroPigPen: A Scalable Toolkit for Processing Electrophysiological Signal Data in Neuroscience Applications Using Apache Pig. <i>Frontiers in Neuroinformatics</i> , 2016 , 10, 18	3.9	8
168	A neural mass model of basal ganglia nuclei simulates pathological beta rhythm in Parkinson's disease. <i>Chaos</i> , 2016 , 26, 123113	3.3	11

167	Test and Validation of a Smart Exercise Bike for Motor Rehabilitation in Individuals With Parkinson's Disease. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016 , 24, 1254-1264	4.8	13
166	Closed-Loop Control of Tremor-Predominant Parkinsonian State Based on Parameter Estimation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016 , 24, 1109-1121	4.8	18
165	Left-insular damage, autonomic instability, and sudden unexpected death in epilepsy. <i>Epilepsy and Behavior</i> , 2016 , 55, 170-3	3.2	43
164	Transient voltage stability of offshore wind farms following faults on the collector system 2016 ,		4
163	Dynamic modeling and stability analysis of grid-connected and autonomous distributed generation system 2015 ,		2
162	Big data analytics in power distribution systems 2015 ,		43
161	Dynamical analysis of Parkinsonian state emulated by hybrid Izhikevich neuron models. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015 , 28, 10-26	3.7	13
160	Examination of Scale-Invariant Characteristics of Multi-channel ECoG Data for Epileptic Seizure Localization. <i>Journal of Medical and Biological Engineering</i> , 2015 , 35, 278-284	2.2	2
159	Impact of wind turbine generator type in large-scale offshore wind farms on voltage regulation in distribution feeders 2015 ,		6
158	Nonlinear generator excitation and superconducting magnetic energy storage control for transient stability enhancement via immersion and invariance. <i>Transactions of the Institute of Measurement and Control</i> , 2015 , 37, 1217-1231	1.8	1
157	. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 2404-2416	7	78
156	Hierarchical Decentralized Network Reconfiguration for Smart Distribution SystemsPart I: Problem Formulation and Algorithm Development. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 734-743	7	42
155	Hierarchical Decentralized Network Reconfiguration for Smart Distribution SystemsPart II: Applications to Test Systems. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 744-752	7	23
154	Evaluation of an automated single-channel sleep staging algorithm. <i>Nature and Science of Sleep</i> , 2015 , 7, 101-11	3.6	43
153	Dynamic High-Cadence Cycling Improves Motor Symptoms in Parkinson's Disease. <i>Frontiers in Neurology</i> , 2015 , 6, 194	4.1	32
152	A scalable neuroinformatics data flow for electrophysiological signals using MapReduce. <i>Frontiers in Neuroinformatics</i> , 2015 , 9, 4	3.9	12
151	Information technology in critical care: review of monitoring and data acquisition systems for patient care and research. <i>Scientific World Journal, The</i> , 2015 , 2015, 727694	2.2	49
150	Effects of environment light during sleep on autonomic functions of heart rate and breathing. <i>Sleep and Breathing</i> , 2014 , 18, 829-35	3.1	16

149	Automated removal of EKG artifact from EEG data using independent component analysis and continuous wavelet transformation. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 1634-41	5	59
148	Decentralized network reconfiguration and restoration for smart distribution systems [Part II: Distributed generation 2014 ,		1
147	Decentralized network reconfiguration and restoration for smart distribution systems [Part I: Decentralized approach 2014 ,		2
146	Heart beats in the cloud: distributed analysis of electrophysiological 'Big Data' using cloud computing for epilepsy clinical research. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2014 , 21, 263-71	8.6	44
145	Examination of scale-invariant characteristics of epileptic electroencephalograms using wavelet-based analysis. <i>Computers and Electrical Engineering</i> , 2014 , 40, 1766-1773	4.3	6
144	Modeling and simulation of power sharing and interaction between riders on a tandem bicycle 2014 ,		1
143	The Use of Software Agents for Autonomous Control of a DC Space Power System 2014 ,		3
142	Performance evaluation of an automated single-channel sleep-wake detection algorithm. <i>Nature and Science of Sleep</i> , 2014 , 6, 113-22	3.6	36
141	A method for the inclusion of sphenoidal electrodes in realistic EEG source imaging. <i>Journal of Clinical Neurophysiology</i> , 2014 , 31, 429-36	2.2	2
140	The use of heart rate variability for the early detection of treatable complications after aneurysmal subarachnoid hemorrhage. <i>Journal of Clinical Monitoring and Computing</i> , 2013 , 27, 385-93	2	13
139	Breathing irregularity during wakefulness associates with CPAP acceptance in sleep apnea. <i>Sleep and Breathing</i> , 2013 , 17, 845-52	3.1	11
138	Isoflurane and ketamine anesthesia have different effects on ventilatory pattern variability in rats. <i>Respiratory Physiology and Neurobiology</i> , 2013 , 185, 659-64	2.8	6
137	Significant postictal hypotension: expanding the spectrum of seizure-induced autonomic dysregulation. <i>Epilepsia</i> , 2013 , 54, e127-30	6.4	66
136	2013 ,		2
135	Network reconfiguration analysis with the consideration of distributed generation 2013 ,		1
134	Comparison of complexity measures using two complex system analysis methods applied to the epileptic ECoG. <i>Journal of the Korean Physical Society</i> , 2013 , 63, 1659-1665	0.6	5
133	An analysis of the kangaroo care intervention using neonatal EEG complexity: a preliminary study. <i>Clinical Neurophysiology</i> , 2013 , 124, 238-46	4.3	55
132	Age-specific periictal electroclinical features of generalized tonic-clonic seizures and potential risk of sudden unexpected death in epilepsy (SUDEP). <i>Epilepsy and Behavior</i> , 2013 , 29, 289-94	3.2	59

131	. <i>IEEE Transactions on Reliability</i> , 2013 , 62, 171-182	4.6	10
130	Variability in cadence during forced cycling predicts motor improvement in individuals with Parkinson's disease. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2013 , 21, 481-9	4.8	15
129	Quantitative analysis of the effects of iododeoxyuridine and ionising radiation treatment on the cell cycle dynamics of DNA mismatch repair deficient human colorectal cancer cells. <i>IET Systems Biology</i> , 2013 , 7, 114-24	1.4	3
128	Developing an in silico model of the modulation of base excision repair using methoxyamine for more targeted cancer therapeutics. <i>IET Systems Biology</i> , 2013 , 7, 27-37	1.4	2
127	. <i>Journal of Medical and Biological Engineering</i> , 2013 ,	2.2	2
126	Analysis of Ventilatory Pattern Variability 2013 , 79-99		
125	Entropy-based measures for quantifying sleep-stage transition dynamics: relationship to sleep fragmentation and daytime sleepiness. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 787-96	5	20
124	Counteracting rotor imbalance in a bearingless motor system with feedforward control 2012 ,		1
123	A simple heuristic method for smart distribution system reconfiguration 2012 ,		7
122	Modeling and simulation of grid-connected hybrid AC/DC microgrid 2012 ,		5
121	Cardio-ventilatory coupling in young healthy resting subjects. <i>Journal of Applied Physiology</i> , 2012 , 112, 1248-57	3.7	12
120	Optimal channel selection for analysis of EEG-sleep patterns of neonates. <i>Computer Methods and Programs in Biomedicine</i> , 2012 , 106, 14-26	6.9	17
119	The relationship between patterns of intermittent hypoxia and retinopathy of prematurity in preterm infants. <i>Pediatric Research</i> , 2012 , 72, 606-12	3.2	73
118	A method for analyzing temporal patterns of variability of a time series from Poincare plots. <i>Journal of Applied Physiology</i> , 2012 , 113, 297-306	3.7	45
117	Integration of Principles of Systems Biology and Radiation Biology: Toward Development of in silico Models to Optimize IUdR-Mediated Radiosensitization of DNA Mismatch Repair Deficient (Damage Tolerant) Human Cancers. <i>Frontiers in Oncology</i> , 2011 , 1, 20	5.3	3
116	Differences in breathing patterning during wakefulness in patients with mixed apnea-dominant vs obstructive-dominant sleep apnea. <i>Chest</i> , 2011 , 140, 54-61	5.3	26
115	Small-Signal Stability Enhancement of Power Systems with Renewable Distributed Energy Resources. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 513-518		2
114	Transient stability and voltage regulation in power systems with renewable distributed energy resources 2011 ,		7

113	Analysis of cell cycle dynamics using probabilistic cell cycle models. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 141-4	0.9	2
112	Motoring performance of a conical pole-pair separated bearingless electric machine 2011 ,		10
111	Drive latencies in hypoglossal motoneurons indicate developmental change in the brainstem respiratory network. <i>Journal of Neural Engineering</i> , 2011 , 8, 065011	5	5
110	Vagal-dependent nonlinear variability in the respiratory pattern of anesthetized, spontaneously breathing rats. <i>Journal of Applied Physiology</i> , 2011 , 111, 272-84	3.7	24
109	Physiologic brain dysmaturity in late preterm infants. <i>Pediatric Research</i> , 2011 , 70, 524-8	3.2	26
108	Levitation performance of two opposed permanent magnet pole-pair separated conical bearingless motors 2011 ,		11
107	Simulation-based environment for modeling distributed agents for smart grid energy management 2011 ,		4
106	Cyclic versus Staircase Voltammetry in Electrocatalysis: Theoretical Aspects. <i>Journal of the Electrochemical Society</i> , 2011 , 158, F15	3.9	12
105	Data Acquisition and Complex Systems Analysis in Critical Care: Developing the Intensive Care Unit of the Future. <i>Journal of Healthcare Engineering</i> , 2010 , 1, 337-355	3.7	17
104	Wavelet-based fractal analysis of multi-channel epileptic ECoG 2010 ,		1
103	A headband for classifying human postures. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 382-5	0.9	2
102	Investigation of temporal variability of epileptic EEG signals 2010 ,		3
101	Comparison of temporal variability of epileptic ECoG signals 2010 ,		3
100	Neonatal EEG/sleep state analyses: a complex phenotype of developmental neural plasticity. <i>Developmental Neuroscience</i> , 2009 , 31, 259-75	2.2	34
99	Quantifying the complexity of neural network output using entropy measures. <i>BMC Neuroscience</i> , 2009 , 10,	3.2	3
98	Automated detection of neonate EEG sleep stages. <i>Computer Methods and Programs in Biomedicine</i> , 2009 , 95, 31-46	6.9	51
97	Neurophysiologic assessment of brain maturation after an 8-week trial of skin-to-skin contact on preterm infants. <i>Clinical Neurophysiology</i> , 2009 , 120, 1812-8	4.3	114
96	Wavelet-based fractal analysis of the epileptic EEG signal 2009 ,		7

95	Bearingless Five-Axis Rotor Levitation with Two Pole Pair Separated Conical Motors 2009 ,		10
94	Investigation of Neonatal EEG Time Series Using a Modified Nonlinear Dynamical Analysis. <i>Lecture Notes in Computer Science</i> , 2009 , 326-335	0.9	
93	Nonlinear dynamical analysis of the neonatal EEG time series: the relationship between sleep state and complexity. <i>Clinical Neurophysiology</i> , 2008 , 119, 1812-1823	4.3	43
92	Post-sigh breathing behavior and spontaneous pauses in the C57BL/6J (B6) mouse. <i>Respiratory Physiology and Neurobiology</i> , 2008 , 162, 117-25	2.8	44
91	Nonlinear dynamical analysis of the neonatal EEG time series: the relationship between neurodevelopment and complexity. <i>Clinical Neurophysiology</i> , 2008 , 119, 822-36	4.3	29
90	Entropy-based Measures of EEG Arousals as Biomarkers for Sleep Dynamics: Applications to Hypertension. <i>Sleep</i> , 2008 ,	1.1	1
89	Feature identification in circadian rhythms of mice strains using in vivo information. <i>Mammalian Genome</i> , 2008 , 19, 366-77	3.2	4
88	An approach for characterizing coupling in dynamical systems. <i>Physica D: Nonlinear Phenomena</i> , 2008 , 237, 2482-2486	3.3	9
87	The effect of time delay on Approximate & Sample Entropy calculations. <i>Physica D: Nonlinear Phenomena</i> , 2008 , 237, 3069-3074	3.3	91
86	Bearing condition diagnosis and prognosis using applied nonlinear dynamical analysis of machine vibration signal. <i>Journal of Sound and Vibration</i> , 2008 , 317, 112-126	3.9	66
85	Entropy-based measures of EEG arousals as biomarkers for sleep dynamics: applications to hypertension. <i>Sleep</i> , 2008 , 31, 935-43	1.1	4
84	Nonlinear analysis of breathing patterns in development of acute and chronic lung injury. <i>FASEB Journal</i> , 2008 , 22, 756.13	0.9	
83	Effect of heart failure on cardiac and respiratory variability and cardioventilatory coupling. <i>FASEB Journal</i> , 2008 , 22, 970.26	0.9	
82	GABAergic transmission in the A5 area modulates sympatho-respiratory response to hypoxia and breathing pattern variability in rats. <i>FASEB Journal</i> , 2008 , 22, 954.6	0.9	
81	Complex systems biology approach to understanding coordination of JAK-STAT signaling. <i>BioSystems</i> , 2007 , 90, 830-42	1.9	20
80	Online tracking of bearing wear using wavelet packet decomposition and probabilistic modeling: A method for bearing prognostics. <i>Journal of Sound and Vibration</i> , 2007 , 302, 951-961	3.9	216
79	A conceptual modeling framework for the study of DNA mismatch repair pathway to improve therapeutic gain in cancer treatment 2007 ,		3
78	Probabilistic modeling of DNA mismatch repair effects on cell cycle dynamics and iododeoxyuridine-DNA incorporation. <i>Cancer Research</i> , 2007 , 67, 10993-1000	10.1	12

77	Early Detection of Lubrication Anomalies in Oil-Lubricated Bearings 2007 , 785		
76	On systems and control approaches to therapeutic gain. <i>BMC Cancer</i> , 2006 , 6, 104	4.8	7
75	Matching a wavelet to ECG signal. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 1686-9		1
74	HMM-Based Fault Detection and Diagnosis Scheme for Rolling Element Bearings. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2005 , 127, 299-306	1.6	87
73	Verification and Validation of Real-Time Adaptive Neural Networks Using ANCT Tools and Methodologies, an Application to Intelligent Flight Control Systems F-15 Project 2005 ,		5
72	Automated state analyses: proposed applications to neonatal neurointensive care. <i>Journal of Clinical Neurophysiology</i> , 2005 , 22, 256-70	2.2	27
71	Prediction of neonatal state and maturational change using dimensional analysis. <i>Journal of Clinical Neurophysiology</i> , 2005 , 22, 159-65	2.2	20
70	A new system theoretic classifier for detection and prediction of epileptic seizures. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2004 , 2006, 415-8		1
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