

# Takashi Hikihara

## 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.

203  
papers

2,041  
citations

23  
h-index

38  
g-index

238  
ext. papers

2,456  
ext. citations

1.9  
avg, IF

5.08  
L-index

#	Paper	IF	Citations
203	Routing optimization on power packet dispatching system based on energy loss minimization. <i>Nonlinear Theory and Its Applications IEICE</i> , <b>2022</b> , 13, 139-148	0.6	
202	Characterizing scale dependence of effective diffusion driven by fluid flows.. <i>Physical Review E</i> , <b>2022</b> , 105, 045103	2.4	
201	Prediction of restriction in output current by reactant flow in redox flow battery for compensating load variations. <i>International Journal of Circuit Theory and Applications</i> , <b>2021</b> , 49, 1121-1132	2	
200	Power Packet Dispatching With Shared Power Line: Experimental Verification for Industrial Applications. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , <b>2021</b> , 2, 164-172	2.6	2
199	Output Series-Parallel Connection of Passivity-Based Controlled DCDC Converters: Generalization of Asymptotic Stability. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2021</b> , 68, 1750-1759	3.9	0
198	The Broken Symmetry of Output Currents in a Matrix Converter and Its Recovery Control. <i>Journal of Circuits, Systems and Computers</i> , <b>2021</b> , 30, 2150072	0.9	
197	Decentralized algorithms for consensus-based power packet distribution. <i>Nonlinear Theory and Its Applications IEICE</i> , <b>2021</b> , 12, 181-193	0.6	
196	Electric power processing using logic operation and error correction. <i>Royal Society Open Science</i> , <b>2021</b> , 8, 202344	3.3	
195	Photo radiation pressure at resonance of frequency modulated micro cantilever. <i>Nonlinear Theory and Its Applications IEICE</i> , <b>2021</b> , 12, 718-725	0.6	0
194	Power Packet Router With Power and Signal Switches for a Single Power Packet. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2020</b> , 67, 3242-3246	3.5	1
193	Impulsive torque control of biped gait with power packets. <i>Nonlinear Dynamics</i> , <b>2020</b> , 102, 951-963	5	0
192	Power Regeneration From DC Motor With Bidirectional Router in Power Packet Dispatching System. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2020</b> , 67, 3088-3092	3.5	3
191	Phase synchronization of autonomous AC grid system with passivity-based control. <i>International Journal of Circuit Theory and Applications</i> , <b>2020</b> , 48, 906-918	2	1
190	Dynamic behaviour of a ring coupled boost converter system with passivity-based control. <i>Nonlinear Theory and Its Applications IEICE</i> , <b>2020</b> , 11, 109-122	0.6	
189	Measurement of internal magnetic flux density distribution in air-core toroidal transformer under high-frequency excitation. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 044703	1.7	
188	Parallelization of Boost and Buck Type DC-DC Converters by Individual Passivity-Based Control. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , <b>2020</b> , E103.A, 589-595	0.4	2
187	Equivalent circuit of interleaved air-core toroidal transformer derived from analogy with coupled transmission lines. <i>IEICE Electronics Express</i> , <b>2020</b> , 17, 20200262-20200262	0.5	

186	Modeling of Advective Heat Transfer in a Practical Building Atrium via Koopman Mode Decomposition. <i>Lecture Notes in Control and Information Sciences</i> , <b>2020</b> , 481-506	0.5	0
185	Two-dimensional swarm formation in time-invariant external potential: Modeling, analysis, and control. <i>Chaos</i> , <b>2020</b> , 30, 093145	3.3	0
184	Consensus-based distribution of power packets and decentralized control for routing. <i>Chaos</i> , <b>2020</b> , 30, 033115	3.3	
183	Model for charging/discharging dynamics of cells in redox flow battery with transport delay. <i>Physica Scripta</i> , <b>2019</b> , 94, 095005	2.6	2
182	Packet-based feedback control of electrical drive and its application to trajectory tracking of manipulator. <i>International Journal of Circuit Theory and Applications</i> , <b>2019</b> , 47, 612-632	2	4
181	Symmetry recovery from the viewpoint of power and frequency by extended delay feedback control. <i>Nonlinear Theory and Its Applications IEICE</i> , <b>2019</b> , 10, 131-139	0.6	1
180	On the Use of Reachable Set for Safe Operation in Microgrid. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , <b>2019</b> , 32, 137-144	0.1	0
179	Design of 6.78 MHz SiC MOSFET Class-E Inverter with a Class- $\Pi$ High-Speed Driver <b>2019</b> ,		3
178	Surface-Potential-Based Silicon Carbide Power MOSFET Model for Circuit Simulation. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 10774-10783	7.2	14
177	Analysis of dynamic characteristics of SiC Schottky barrier diodes at high switching frequency based on junction capacitance. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 04FF01	1.4	
176	Multiscale modeling of in-room temperature distribution with human occupancy data: a practical case study. <i>Journal of Building Performance Simulation</i> , <b>2018</b> , 11, 145-163	2.8	4
175	Design possibility for covert power packet transfer using asynchronous sampling. <i>Nonlinear Theory and Its Applications IEICE</i> , <b>2018</b> , 9, 374-381	0.6	
174	Skew Calibration with High-Power and High-Speed Pulse Generator for Oscilloscope. <i>IEEJ Transactions on Electronics, Information and Systems</i> , <b>2018</b> , 138, 37-40	0.1	
173	Dynamics regularization with tree-like structures. <i>Applied Mathematical Modelling</i> , <b>2018</b> , 55, 205-223	4.5	2
172	Enhancement of Driving Capability of Gate Driver Using GaN HEMTs for High-Speed Hard Switching of SiC Power MOSFETs <b>2018</b> ,		2
171	Stabilization of mode in imbalanced operation of matrix converter by time-delayed feedback control. <i>International Journal of Circuit Theory and Applications</i> , <b>2018</b> , 46, 2420-2433	2	4
170	A Flyback Converter with SiC Power MOSFET Operating at 10 MHz: Reducing Leakage Inductance for Improvement of Switching Behaviors <b>2018</b> ,		3
169	Experimental Implementation of Power Packet Density Modulation to Close-loop Control of Manipulator <b>2018</b> ,		2

168	Transient behavior of redox flow battery connected to circuit based on global phase structure. <i>Nonlinear Theory and Its Applications IEICE</i> , <b>2018</b> , 9, 137-147	0.6	1
167	Assessment of offshore wind farm characteristics with the cloud resolving storm simulator: A case study in Japan. <i>Wind Energy</i> , <b>2018</b> , 21, 531-543	3.4	1
166	Power packet transferability via symbol propagation matrix. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2018</b> , 474, 20170552	2.4	4
165	Measurement and modeling of gate-drain capacitance of silicon carbide vertical double-diffused MOSFET. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 04CR07	1.4	11
164	Reprogrammable logic-memory device of a mechanical resonator. <i>International Journal of Non-Linear Mechanics</i> , <b>2017</b> , 94, 406-416	2.8	8
163	Nonlinear Control of Combined Heat and Power Plants in a Two-site Regional Energy System. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , <b>2017</b> , 30, 157-166	0.1	0
162	Direct drive of a buck converter by delta-sigma modulation at 13.56-MHz sampling <b>2017</b> ,		2
161	Trajectory control of manipulator fed by power packets. <i>International Journal of Circuit Theory and Applications</i> , <b>2017</b> , 45, 832-842	2	5
160	A study on close-loop control of manipulator by power packet density modulation <b>2017</b> ,		2
159	High-speed driver for SiC MOSFET based on class-E inverter <b>2017</b> ,		3
158	Power Processing for Advanced Power Distribution and Control. <i>IEICE Transactions on Communications</i> , <b>2017</b> , E100.B, 941-947	0.5	11
157	Close-Loop Angle Control of Stepper Motor Fed by Power Packets. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , <b>2017</b> , E100.A, 1571-1574	0.4	4
156	Quantifying smoothing effects of wind power via Koopman mode decomposition: A numerical test with wind speed predictions in Japan. <i>Nonlinear Theory and Its Applications IEICE</i> , <b>2017</b> , 8, 342-357	0.6	3
155	Applications of Koopman Mode Decomposition to Modeling of Heat Transfer Dynamics in Building Atriums-I. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>2017</b> , 53, 123-133	0.1	3
154	Applications of Koopman Mode Decomposition to Modeling of Heat Transfer Dynamics in Building Atriums-II. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>2017</b> , 53, 188-197	0.1	
153	Analytical Method Using Impedance of Permanent Magnet Motor for Calculation of Rotor Eddy-Current Losses Caused by Carrier Harmonics. <i>IEEJ Transactions on Industry Applications</i> , <b>2017</b> , 137, 663-672	0.2	0
152	Data-Driven Partitioning of Power Networks Via Koopman Mode Analysis. <i>IEEE Transactions on Power Systems</i> , <b>2016</b> , 31, 2799-2808	7	37
151	Power packet dispatching with features on safety. <i>Nonlinear Theory and Its Applications IEICE</i> , <b>2016</b> , 7, 250-265	0.6	5

150	Applied Koopman operator theory for power systems technology. <i>Nonlinear Theory and Its Applications IEICE</i> , <b>2016</b> , 7, 430-459	0.6	45
149	Power Regulation With Predictive Dynamic Quantizer in Power Packet Dispatching System. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 7653-7661	8.9	14
148	A simulation model for SiC power MOSFET based on surface potential <b>2016</b> ,		10
147	Energy Conversion of Parametric Pendulum and its Application for Vibration Energy. <i>Nihon AEM Gakkaishi</i> , <b>2016</b> , 24, 14-21	0.2	
146	A high power curve tracer for characterizing full operational range of SiC power transistors <b>2016</b> ,		7
145	Up-Stream Dispatching of Power by Density of Power Packet. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , <b>2016</b> , E99.A, 2581-2584	0.4	3
144	Power packet dispatching with second-order clock synchronization. <i>International Journal of Circuit Theory and Applications</i> , <b>2016</b> , 44, 729-743	2	16
143	Parametric resonance of intrinsic localized modes in coupled cantilever arrays. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2016</b> , 380, 2823-2827	2.3	2
142	Analysis of transient behavior of SiC power MOSFETs based on surface potential model and its application to boost converter <b>2016</b> ,		1
141	On Koopman and dynamic mode decompositions for application to dynamic data with low spatial dimension <b>2016</b> ,		6
140	Effects of noise on symmetric intrinsic localized modes. <i>Nonlinear Dynamics</i> , <b>2016</b> , 85, 333-341	5	17
139	Energy absorption at synchronization in phase between coupled Duffing systems. <i>International Journal of Dynamics and Control</i> , <b>2015</b> , 3, 189-194	1.7	1
138	The Three-Phase Power Router and Its Operation with Matrix Converter toward Smart-Grid Applications. <i>Energies</i> , <b>2015</b> , 8, 3034-3046	3.1	4
137	High-speed gate drive circuit for SiC MOSFET by GaN HEMT. <i>IEICE Electronics Express</i> , <b>2015</b> , 12, 20150285, 20150285	5.5	10
136	A study on trajectory control of manipulator using power packet dispatching <b>2015</b> ,		4
135	Active and Reactive Power in Stochastic Resonance for Energy Harvesting. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , <b>2015</b> , E98.A, 1537-1539	0.4	
134	A Unified Definition of Collective Instabilities in Coupled Generator Networks**During part of the work on this proceeding, Y.S. was at Department of Mechanical Engineering, University of California, Santa Barbara, supported by JSPS Postdoctoral Fellowships for Research Abroad.. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 89-94	0.7	
133	Multi-Way Partitioning of Power Networks via Koopman Mode Analysis. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 421-426	0.7	1

132	Router for Power Packet Distribution Network: Design and Experimental Verification. <i>IEEE Transactions on Smart Grid</i> , <b>2015</b> , 6, 618-626	10.7	69
131	A flyback converter using power MOSFET to achieve high frequency operation beyond 13.56 MHz <b>2015</b> ,		4
130	Realization of Autonomous Clock Synchronization for Power Packet Dispatching. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , <b>2015</b> , E98.A, 749-753	0.4	8
129	Battery-Based Output Smoothing Control of Electric Power System with Multiple Homes. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , <b>2015</b> , 28, 299-309	0.1	1
128	Partitioning power grids via nonlinear Koopman Mode Analysis <b>2014</b> ,		8
127	Networked power packet dispatching system for multi-path routing <b>2014</b> ,		18
126	Harmonic Reduction and Chaotic Operation towards Application of AC/AC Converter with Feedback Control. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , <b>2014</b> , E97.A, 840-847	0.4	3
125	Direct matrix converter space vector modulation and dynamical model analysis towards steady state operation <b>2014</b> ,		2
124	Logic-memory device of a mechanical resonator. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 123104	3.4	43
123	Read and Write Operations of Memory Device Consisting of Nonlinear MEMS Resonator. <i>IEICE Proceeding Series</i> , <b>2014</b> , 1, 352-355		1
122	Logical Behavior in Memory Devices of Coupled Nonlinear MEMS Resonators. <i>IEICE Proceeding Series</i> , <b>2014</b> , 2, 30-33		1
121	Stability of Two-Sites Regional Power and Heat Supply System Numerical Simulations under Step Change of Heat Transfer Reference. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , <b>2014</b> , 27, 452-460	0.1	0
120	Synchronization in Coupled MEMS Resonators. <i>Understanding Complex Systems</i> , <b>2014</b> , 333-341	0.4	
119	A study on feedback control of intrinsic localized modes in a micro-mechanical cantilever array. <i>IEICE Proceeding Series</i> , <b>2014</b> , 2, 282-285		
118	An Influence of Second Harmonic Excitation on Rotation in Parametric Pendulum. <i>IEICE Proceeding Series</i> , <b>2014</b> , 2, 178-181		
117	Manipulation of Fluxoid by Electromagnetic Perturbation. <i>IEICE Proceeding Series</i> , <b>2014</b> , 2, 34-37		
116	A Similarity on Energy Exchange Between Resonance and Synchronization. <i>IEICE Proceeding Series</i> , <b>2014</b> , 1, 926-929		
115	A numerical study on parametric resonance of intrinsic localized modes in coupled cantilever arrays. <i>IEICE Proceeding Series</i> , <b>2014</b> , 1, 474-477		

114	AC Power Local Network with Multiple Power Routers. <i>Energies</i> , <b>2013</b> , 6, 6293-6303	3.1	14
113	AC/AC converter towards power routing systems in smart-grids: Advantage on operation by nonlinear dynamics <b>2013</b> ,		4
112	Counter operation in nonlinear micro-electro-mechanical resonators. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2013</b> , 377, 2551-2555	2.3	19
111	Discharge characteristics of multicell lithium-ion battery with nonuniform cells. <i>Journal of Power Sources</i> , <b>2013</b> , 241, 736-743	8.9	44
110	An all SiC MOSFET high performance PV converter cell <b>2013</b> ,		18
109	Design and experimental verification of power packet generation system for power packet dispatching system <b>2013</b> ,		18
108	Special Section on nonlinear vibration in mechanical system and its control &mdash; from nano to macro &mdash;. <i>Nonlinear Theory and Its Applications IEICE</i> , <b>2013</b> , 4, 183-183	0.6	
107	Indirect magnetic suspension by an actively controlled permanent magnet. <i>Nonlinear Theory and Its Applications IEICE</i> , <b>2013</b> , 4, 284-298	0.6	
106	Control of Intrinsic Localized Mode in Coupled Cantilever Array <b>2013</b> , 359-374		
105	Physical Architecture and Model-Based Evaluation of Electric Power System with Multiple Homes. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , <b>2013</b> , E96.A, 1703-1711	0.4	2
104	Tracking and Linkage Control Methods of Distributed Generation Based on Passivity Characteristics: Tolerance to Voltage Sag. <i>IEEJ Transactions on Industry Applications</i> , <b>2013</b> , 133, 685-691	0.2	
103	Local bifurcations of synchronization in self-excited and forced unidirectionally coupled micromechanical resonators. <i>Journal of Sound and Vibration</i> , <b>2012</b> , 331, 1127-1142	3.9	13
102	A Hybrid System Approach to the Analysis and Design of Power Grid Dynamic Performance. <i>Proceedings of the IEEE</i> , <b>2012</b> , 100, 225-239	14.3	39
101	Reading and writing operations of memory device in micro-electromechanical resonator. <i>IEICE Electronics Express</i> , <b>2012</b> , 9, 1230-1236	0.5	8
100	Experimental manipulation of intrinsic localized modes in macro-mechanical system. <i>Nonlinear Theory and Its Applications IEICE</i> , <b>2012</b> , 3, 233-245	0.6	6
99	Introduction to the focus issue: fifty years of chaos: applied and theoretical. <i>Chaos</i> , <b>2012</b> , 22, 047501	3.3	9
98	Feasibility of power packet dispatching at in-home DC distribution network <b>2012</b> ,		20
97	Tolerance of Delayed Feedback Control for Maintaining Periodic Rotation. <i>Procedia IUTAM</i> , <b>2012</b> , 5, 259-264		1

96	A Study on Intrinsic Localized Modes in a Macro-mechanical Cantilever Array with Tunable on-site Nonlinearity. <i>Procedia IUTAM</i> , <b>2012</b> , 5, 288-291		1
95	Thermal instability effects in SiC Power MOSFETs. <i>Microelectronics Reliability</i> , <b>2012</b> , 52, 2414-2419	1.2	37
94	Coherent Swing Instability of Interconnected Power Grids and a Mechanism of Cascading Failure <b>2012</b> , 185-202		4
93	Estimation of Power Packet Transfer Properties on Indoor Power Line Channel. <i>Energies</i> , <b>2012</b> , 5, 2141-2149	3.49	28
92	Power Packetization and Routing for Smart Management of Electricity <b>2012</b> ,		7
91	A Study on Linkage Control between Distributed Generation and Power System Network Based on Passivity Characteristics. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , <b>2012</b> , 25, 257-265	0.1	1
90	Reconstitution of Potential Function by Power Spectra of Trajectories in Nonlinear Dynamical Systems. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , <b>2012</b> , E95-A, 613-616	0.4	
89	Special Section on Science and Technology for Smart Energy Management. <i>Nonlinear Theory and Its Applications IEICE</i> , <b>2011</b> , 2, 262-262	0.6	1
88	Hybrid controller for safe microgrid operation. <i>Nonlinear Theory and Its Applications IEICE</i> , <b>2011</b> , 2, 347-362		4
87	Characterization of a MEMS resonator with extended hysteresis. <i>IEICE Electronics Express</i> , <b>2011</b> , 8, 291-298		8
86	A study of SiC Power BJT performance and robustness. <i>Microelectronics Reliability</i> , <b>2011</b> , 51, 1773-1777	1.2	4
85	Characterization of synchronization in a unidirectionally coupled system of nonlinear micromechanical resonators. <i>Sensors and Actuators A: Physical</i> , <b>2011</b> , 171, 361-369	3.9	1
84	Coherent Swing Instability of Power Grids. <i>Journal of Nonlinear Science</i> , <b>2011</b> , 21, 403-439	2.8	56
83	Tolerance of start-up control of rotation in parametric pendulum by delayed feedback. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2011</b> , 375, 1779-1783	2.3	14
82	Physical architectures and mathematical models for electric-power management of multiple homes <b>2011</b> ,		1
81	AC Power Routing System in Home Based on Demand and Supply Utilizing Distributed Power Sources. <i>Energies</i> , <b>2011</b> , 4, 717-726	3.1	35
80	Regulation of Parallel Converters with Respect to Stored Energy and Passivity Characteristics. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , <b>2011</b> , E94-A, 1010-1014	0.4	4
79	Start Control of Parametric Pendulum into Periodic Rotation. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , <b>2011</b> , 24, 54-60	0.1	3



78	Coherent Swing Instability of power systems and cascading failures <b>2010</b> ,		1
77	In-Home Power Distribution Systems by Circuit Switching and Power Packet Dispatching <b>2010</b> ,		60
76	Nonlinear Dynamics in Atomic Force Microscopy and Its Control for Nanoparticle Manipulation <b>2010</b> , 267-286		3
75	Switching characteristics of lateral-type and vertical-type SiC JFETs depending on their internal parasitic capacitances. <i>IEICE Electronics Express</i> , <b>2010</b> , 7, 1051-1057	0.5	2
74	Characterization of the gate-voltage dependency of input capacitance in a SiC MOSFET. <i>IEICE Electronics Express</i> , <b>2010</b> , 7, 480-486	0.5	9
73	Period-doubling cascades of canards from the extended Bonhoeffer-van der Pol oscillator. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2010</b> , 374, 3745-3751	2.3	26
72	Capture and release of traveling intrinsic localized mode in coupled cantilever array. <i>Chaos</i> , <b>2009</b> , 19, 013138	3.3	21
71	Global swing instability in the New England power grid model <b>2009</b> ,		7
70	Manipulation of single atoms by atomic force microscopy as a resonance effect. <i>Physical Review Letters</i> , <b>2009</b> , 102, 215502	7.4	7
69	Controlling chaos in dynamic-mode atomic force microscope. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2009</b> , 373, 3140-3144	2.3	33
68	Coupled cantilever array with tunable on-site nonlinearity and observation of localized oscillations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2009</b> , 373, 1257-1260	2.3	39
67	Measuring Terminal Capacitance and Its Voltage Dependency for High-Voltage Power Devices. <i>IEEE Transactions on Power Electronics</i> , <b>2009</b> , 24, 1486-1493	7.2	48
66	The influence of parasitic components on power MOSFET switching operation in power conversion circuits. <i>IEICE Electronics Express</i> , <b>2009</b> , 6, 1697-1701	0.5	3
65	Hybrid Model for Cascading Outage in a Power System: A Numerical Study. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , <b>2009</b> , E92-A, 871-879	0.4	13
64	Dynamics in Manipulation and Actuation of Nano-Particles. <i>Understanding Complex Systems</i> , <b>2009</b> , 287-295		54
63	Evaluation of High Frequency Switching Capability of SiC Schottky Barrier Diode, Based on Junction Capacitance Model. <i>IEEE Transactions on Power Electronics</i> , <b>2008</b> , 23, 2602-2611	7.2	19
62	. <i>IEEE Transactions on Power Electronics</i> , <b>2008</b> , 23, 1518-1525	7.2	23
61	Global swing instability of multimachine power systems <b>2008</b> ,		12

60	Verifying fault release control of power system via hybrid system reachability <b>2008</b> ,		9
59	The Origin of Nonlinear Phenomena in TCR-SVC Associated With Parametric Excitation of Intrinsic Oscillation and External Excitation. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2008</b> , 55, 2952-2958	3.9	2
58	High-temperature characteristics of SiC Schottky barrier diodes related to physical phenomena. <i>IEICE Electronics Express</i> , <b>2008</b> , 5, 198-203	0.5	6
57	A study on electro thermal response of SiC power module during high temperature operation. <i>IEICE Electronics Express</i> , <b>2008</b> , 5, 597-602	0.5	3
56	A Coupled Dynamical Model of Redox Flow Battery Based on Chemical Reaction, Fluid Flow, and Electrical Circuit. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , <b>2008</b> , E91-A, 1741-1747	0.4	49
55	Stability change of intrinsic localized mode in finite nonlinear coupled oscillators. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2008</b> , 372, 4592-4595	2.3	15
54	A Study on Dynamical Interaction Characteristics of Cell Units and Design Parameters in Coupled Redox Flow Battery System. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , <b>2008</b> , 21, 343-348	0.1	
53	Voltage Instability Analysis via Hybrid System Reachability. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , <b>2008</b> , 21, 368-376	0.1	1
52	A Study on SiC Devices in Synchronous Rectification of DC-DC Converter. <i>IEEE Applied Power Electronics Conference and Exposition</i> , <b>2007</b> ,		25
51	Power Conversion With SiC Devices at Extremely High Ambient Temperatures. <i>IEEE Transactions on Power Electronics</i> , <b>2007</b> , 22, 1321-1329	7.2	193
50	Management of localized energy in discrete nonlinear transmission lines. <i>Europhysics Letters</i> , <b>2007</b> , 80, 30002	1.6	31
49	Energy-based analysis of frequency entrainment described by van der Pol and phase-locked loop equations. <i>Chaos</i> , <b>2007</b> , 17, 023108	3.3	7
48	Evaluation of capacitance-voltage characteristics for high voltage SiC-JFET. <i>IEICE Electronics Express</i> , <b>2007</b> , 4, 517-523	0.5	12
47	Predicting Voltage Instability of Power System via Hybrid System Reachability Analysis. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	8
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45	Persistence of chaos in a time-delayed-feedback controlled Duffing system. <i>Physical Review E</i> , <b>2006</b> , 73, 036209	2.4	10
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22	An experimental spatio-temporal state transition of coupled magneto-elastic system. <i>Chaos</i> , <b>1997</b> , 7, 810-816	3.3	12
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