

Venkata Dinavahi

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.

200
papers

4,077
citations

36
h-index

56
g-index

221
ext. papers

5,239
ext. citations

4.9
avg, IF

6.42
L-index

#	Paper	IF	Citations
200	Multi-Physics Modeling and Simulation of AC-DC Grids 2022 , 359-430		
199	Many-Core Processors 2022 , 1-16		
198	Large-Scale Electromagnetic Transient Simulation of AC Systems 2022 , 71-133		
197	Large-Scale Electromagnetic Transient Simulation of DC Grids 2022 , 187-253		
196	Parallel-in-Time EMT and Transient Stability Simulation of AC-DC Grids 2022 , 313-357		
195	Heterogeneous Co-simulation of AC-DC Grids with Renewable Energy 2022 , 255-311		
194	Large-Scale Transient Stability Simulation of AC Systems 2022 , 17-69		
193	Device-Level Modeling and Transient Simulation of Power Electronic Switches 2022 , 135-186		
192	Hybrid Parallel-in-Time-and-Space Transient Stability Simulation of Large-Scale AC/DC Grids. <i>IEEE Transactions on Power Systems</i> , 2022 , 1-1	7	1
191	Real-Time ML-Assisted Hardware-in-the-Loop Electro-Thermal Emulation of LVDC Microgrid on the International Space Station. <i>IEEE Open Journal of Power Electronics</i> , 2022 , 3, 168-181	2.5	2
190	Robust Dynamic State Estimation for Power System Based on Adaptive Cubature Kalman Filter with Generalized Correntropy Loss. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022 , 1-1	5.2	2
189	Machine Learning Based Modeling for Real-Time Inferencer-In-the-Loop Hardware Emulation of High-Speed Rail Microgrid. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , 2022 , 1-1	2.6	
188	. <i>IEEE Transactions on Smart Grid</i> , 2021 , 1-1	10.7	1
187	Flexible Time-Stepping Dynamic Emulation of AC/DC Grid for Faster-Than-SCADA Applications. <i>IEEE Transactions on Power Systems</i> , 2021 , 36, 2674-2683	7	8
186	Risk-adjustable stochastic schedule based on Sobol augmented Latin hypercube sampling considering correlation of wind power uncertainties. <i>IET Renewable Power Generation</i> , 2021 , 15, 2356-2367	2.9	0
185	2021 ,		11
184	Device-Level Parallel-in-Time Simulation of MMC-Based Energy System for Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 5669-5678	6.8	2

183	Modular Assembly and Real-Time Hardware Emulation of On-the-Move Multidomain Multimachine System on More-Electric Aircraft. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 1814-1824	8.9	3
182	A Novel Linking-Domain Extraction Decomposition Method for Parallel Electromagnetic Transient Simulation of Large-Scale AC/DC Networks. <i>IEEE Transactions on Power Delivery</i> , 2021 , 36, 957-965	4.3	1
181	Component-Level Thermo-Electromagnetic Nonlinear Transient Finite Element Modeling of Solid-State Transformer for DC Grid Studies. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 938-948	8.9	9
180	Adaptive Heterogeneous Transient Analysis of Wind Farm Integrated Comprehensive AC/DC Grids. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 2370-2379	5.4	4
179	. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 2544-2553	10.7	0
178	Variable Time-Stepping Parallel Electromagnetic Transient Simulation of Hybrid AC/DC Grids. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , 2021 , 2, 90-98	2.6	3
177	A Fast Time-Step Selection Method for Explicit Solver-Based Simulation of High Frequency Low Loss Circuit and Its Application on EMI Filter. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 1659-1668	7.2	0
176	Space-Time-Parallel 3-D Finite Element Transformer Model With Adaptive TLM and Parareal Techniques for Electromagnetic Transient Analysis. <i>IEEE Open Journal of Industry Applications</i> , 2021 , 2, 143-153	4.7	1
175	Robust load frequency control for networked power system with renewable energy via fractional-order global sliding mode control. <i>IET Renewable Power Generation</i> , 2021 , 15, 1046-1057	2.9	4
174	Damping of Subsynchronous Control Interactions in Large-Scale PV Installations Through Faster-Than-Real-Time Dynamic Emulation. <i>IEEE Access</i> , 2021 , 9, 128481-128493	3.5	0
173	Decentralized stochastic programming for optimal vehicle-to-grid operation in smart grid with renewable generation. <i>IET Renewable Power Generation</i> , 2021 , 15, 746-757	2.9	2
172	Hierarchical Linking-Domain Extraction Decomposition Method for Fast and Parallel Power System Electromagnetic Transient Simulation. <i>IEEE Open Journal of Industry Applications</i> , 2021 , 2, 194-203	4.7	
171	Mitigation of Subsynchronous Interactions in Hybrid AC/DC Grid With Renewable Energy Using Faster-Than-Real-Time Dynamic Simulation. <i>IEEE Transactions on Power Systems</i> , 2021 , 36, 670-679	7	4
170	Starlink Space Network-Enhanced CyberPhysical Power System. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 3673-3675	10.7	7
169	Robust Secondary Frequency Control for Virtual Synchronous Machine-Based Microgrid Cluster Using Equivalent Modeling. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 2879-2889	10.7	5
168	Time-Stepped Finite-Element Modeling of Three-Phase Transformer for Electromagnetic Transient Emulation on FPGA. <i>IEEE Open Access Journal of Power and Energy</i> , 2021 , 8, 239-247	3.8	0
167	A Universal Wideband Device-Level Parallel Simulation Method and Conducted EMI Analysis for More Electric Aircraft Microgrid. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , 2020 , 1, 162-171	2.6	8
166	Parallel Finite Element Computation of Time-Varying Ionized Field Around Hybrid AC/DC Lines via Fine-Grained Domain Decomposition. <i>IEEE Access</i> , 2020 , 8, 91248-91256	3.5	

165	Dynamic Analysis and Model Order Reduction of Virtual Synchronous Machine Based Microgrid. <i>IEEE Access</i> , 2020 , 8, 106585-106600	3.5	8
164	Adaptive Event-Triggered Load Frequency Control of Multi-Area Power Systems Under Networked Environment via Sliding Mode Control. <i>IEEE Access</i> , 2020 , 8, 86585-86594	3.5	13
163	Comprehensive Modeling of Large Photovoltaic Systems for Heterogeneous Parallel Transient Simulation of Integrated AC/DC Grid. <i>IEEE Transactions on Energy Conversion</i> , 2020 , 35, 917-927	5.4	12
162	Cosimulation of Shifted-Frequency/Dynamic Phasor and Electromagnetic Transient Models of Hybrid LCC-MMC DC Grids on Integrated CPU/GPUs. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 6517-6530	8.9	10
161	Wideband Modeling of Power SiC mosfet Module and Conducted EMI Prediction of MVDC Railway Electrification System. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 2621-2633	2	5
160	Event-triggered load frequency control for multi-area power systems based on Markov model: a global sliding mode control approach. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 4878-4887	2.5	5
159	An Accurate and Fast Method for Conducted EMI Modeling and Simulation of MMC-Based HVdc Converter Station. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 4689-4702	7.2	18
158	. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 6173-6182	8.9	9
157	Real-Time Hardware-in-the-Loop Emulation of High-Speed Rail Power System With SiC-Based Energy Conversion. <i>IEEE Access</i> , 2020 , 8, 122348-122359	3.5	15
156	Adaptive Real-Time Hybrid Neural Network-Based Device-Level Modeling for DC Traction HIL Application. <i>IEEE Access</i> , 2020 , 8, 69543-69556	3.5	1
155	Distributionally robust multi-period energy management for CCHP-based microgrids. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 4097-4107	2.5	3
154	Matrix-Free Edge-Domain Decomposition Method for Massively Parallel 3-D Finite Element Simulation With Field-Circuit Coupling. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-9	2	4
153	. <i>IEEE Open Journal of the Industrial Electronics Society</i> , 2020 , 1, 261-270	3.6	1
152	Parallel-in-Time Object-Oriented Electromagnetic Transient Simulation of Power Systems. <i>IEEE Open Access Journal of Power and Energy</i> , 2020 , 7, 296-306	3.8	7
151	Hierarchical Device-Level Modular Multilevel Converter Modeling for Parallel and Heterogeneous Transient Simulation of HVDC Systems. <i>IEEE Open Journal of Power Electronics</i> , 2020 , 1, 312-321	2.5	4
150	Real-Time Hierarchical Neural Network Based Fault Detection and Isolation for High-Speed Railway System Under Hybrid AC/DC Grid. <i>IEEE Transactions on Power Delivery</i> , 2020 , 1-1	4.3	3
149	Deep Learning for Hardware-Based Real-Time Fault Detection and Localization of All Electric Ship MVDC Power System. <i>IEEE Open Journal of Industry Applications</i> , 2020 , 1, 194-204	4.7	2
148	Comprehensive Real-Time Hardware-In-the-Loop Transient Emulation of MVDC Power Distribution System on Nuclear Submarine. <i>IEEE Open Journal of the Industrial Electronics Society</i> , 2020 , 1, 326-339	3.6	2

147	Machine Learning Building Blocks for Real-Time Emulation of Advanced Transport Power Systems. <i>IEEE Open Journal of Power Electronics</i> , 2020 , 1, 488-498	2.5	7
146	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 725-735	2	4
145	Electrothermal Transient Behavioral Modeling of Thyristor-Based Ultrafast Mechatronic Circuit Breaker for Real-Time DC Grid Emulation. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 1660-1670	8.9	5
144	Faster-Than-Real-Time Dynamic Simulation of AC/DC Grids on Reconfigurable Hardware. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 1539-1548	7	5
143	Robust Forecasting-Aided State Estimation for Power System Against Uncertainties. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 691-702	7	18
142	PARALLEL DOMAIN-DECOMPOSITION-BASED DISTRIBUTED STATE ESTIMATION FOR LARGE-SCALE POWER SYSTEMS 2020 , 413-453		1
141	Multi-Rate Mixed-Solver for Real-Time Nonlinear Electromagnetic Transient Emulation of AC/DC Networks on FPGA-MPSoC Architecture. <i>IEEE Power and Energy Technology Systems Journal</i> , 2019 , 6, 183-194	4.3	5
140	. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-5	2	7
139	A Two-Layer Network Equivalent With Local Passivity Compensation With Applications to Hybrid Simulations of MMC-Based ACDC Grids. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 4514-4524	7	3
138	Parallel stochastic programming for energy storage management in smart grid with probabilistic renewable generation and load models. <i>IET Renewable Power Generation</i> , 2019 , 13, 774-784	2.9	5
137	Exact Nonlinear Micromodeling for Fine-Grained Parallel EMT Simulation of MTDC Grid Interaction With Wind Farm. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 6427-6436	8.9	13
136	A Fast and Stable Method for Modeling Generalized Nonlinearities in Power Electronic Circuit Simulation and Its Real-Time Implementation. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 3124-3138	7.2	15
135	Real-Time MPSoC-Based Electrothermal Transient Simulation of Fault Tolerant MMC Topology. <i>IEEE Transactions on Power Delivery</i> , 2019 , 34, 260-270	4.3	7
134	Massively Parallel Computation for 3-D Nonlinear Finite Edge Element Problem With Transmission Line Decoupling Technique. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-8	2	4
133	Unified Solver Based Real-Time Multi-Domain Simulation of Aircraft Electro-Mechanical-Actuator. <i>IEEE Transactions on Energy Conversion</i> , 2019 , 34, 2148-2157	5.4	4
132	Multistage robust energy management for microgrids considering uncertainty. <i>IET Generation, Transmission and Distribution</i> , 2019 , 13, 1906-1913	2.5	13
131	. <i>IEEE Access</i> , 2019 , 7, 135087-135098	3.5	12
130	Adaptive Robust Cubature Kalman Filter for Power System Dynamic State Estimation Against Outliers. <i>IEEE Access</i> , 2019 , 7, 105872-105881	3.5	8

129	A Multi-Domain Co-Simulation Method for Comprehensive Shifted-Frequency Phasor DC-Grid Models and EMT AC-Grid Models. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 10557-10574	7.2	13
128	Stochastic Demand Response under Random Renewable Power Generation in Smart Grid 2019 ,		1
127	Distributionally Robust Chance-Constrained Energy Management for Islanded Microgrids 2019 ,		1
126	Real-Time FPGA-Based Hardware Neural Network for Fault Detection and Isolation in More Electric Aircraft. <i>IEEE Access</i> , 2019 , 7, 159831-159841	3.5	3
125	Robust dynamic state estimation of power systems with model uncertainties based on adaptive unscented filter. <i>IET Generation, Transmission and Distribution</i> , 2019 , 13, 2455-2463	2.5	5
124	Variable Time-Stepping Modular Multilevel Converter Model for Fast and Parallel Transient Simulation of Multiterminal DC Grid. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 6661-6670	8.9	13
123	Parallel High-Fidelity Electromagnetic Transient Simulation of Large-Scale Multi-Terminal DC Grids. <i>IEEE Power and Energy Technology Systems Journal</i> , 2019 , 6, 59-70	4.3	5
122	A Generalized Parallel Transmission Line Iteration for Finite Element Analysis of Permanent Magnet Axisymmetrical Actuator. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-10	2	0
121	Real-Time HIL Emulation of Faulted Electric Machines Based on Nonlinear MEC Model. <i>IEEE Transactions on Energy Conversion</i> , 2019 , 34, 1190-1199	5.4	10
120	Real-Time Simulation of Hybrid Modular Multilevel Converters Using Shifted Phasor Models. <i>IEEE Access</i> , 2019 , 7, 2376-2386	3.5	1
119	An Efficient Hierarchical Zonal Method for Large-Scale Circuit Simulation and Its Real-Time Application on More Electric Aircraft Microgrid. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 5778-5786	8.9	9
118	Distributionally Robust Chance-Constrained Energy Management for Islanded Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 2234-2244	10.7	70
117	A Branch-and-Cut Benders Decomposition Algorithm for Transmission Expansion Planning. <i>IEEE Systems Journal</i> , 2019 , 13, 659-669	4.3	16
116	Real-Time FEM Computation of Nonlinear Magnetodynamics of Moving Structures on FPGA for HIL Emulation. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 7709-7718	8.9	11
115	Fast Batched Solution for Real-Time Optimal Power Flow With Penetration of Renewable Energy. <i>IEEE Access</i> , 2018 , 6, 13898-13910	3.5	15
114	Shifted Frequency Modeling of Hybrid Modular Multilevel Converters for Simulation of MTDC Grid. <i>IEEE Transactions on Power Delivery</i> , 2018 , 33, 1288-1298	4.3	25
113	Real-Time Device-Level Simulation of MMC-Based MVDC Traction Power System on MPSoC. <i>IEEE Transactions on Transportation Electrification</i> , 2018 , 4, 626-641	7.6	26
112	Direct Interval Forecast of Uncertain Wind Power Based on Recurrent Neural Networks. <i>IEEE Transactions on Sustainable Energy</i> , 2018 , 9, 1177-1187	8.2	79

111	Robust Massively Parallel Dynamic State Estimation of Power Systems Against Cyber-Attack. <i>IEEE Access</i> , 2018 , 6, 2984-2995	3.5	72
110	Dynamic Electro-Magnetic-Thermal Modeling of MMC-Based DCDC Converter for Real-Time Simulation of MTDC Grid. <i>IEEE Transactions on Power Delivery</i> , 2018 , 33, 1337-1347	4.3	29
109	Time-Domain Power Quality State Estimation Based on Kalman Filter Using Parallel Computing on Graphics Processing Units. <i>IEEE Access</i> , 2018 , 6, 21152-21163	3.5	10
108	Dynamic Phasor Based Interface Model for EMT and Transient Stability Hybrid Simulations. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 3930-3939	7	21
107	Real-Time Finite-Element Simulation of Electromagnetic Transients of Transformer on FPGA. <i>IEEE Transactions on Power Delivery</i> , 2018 , 33, 1991-2001	4.3	14
106	Interfacing Power System and ICT Simulators: Challenges, State-of-the-Art, and Case Studies. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 14-24	10.7	44
105	Detailed Device-Level Electrothermal Modeling of the Proactive Hybrid HVDC Breaker for Real-Time Hardware-in-the-Loop Simulation of DC Grids. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 1118-1134	7.2	38
104	. <i>IEEE Transactions on Power Delivery</i> , 2018 , 33, 119-129	4.3	6
103	Real-Time System-on-Chip Emulation of Electrothermal Models for Power Electronic Devices via Hammerstein Configuration. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2018 , 6, 203-218	5.6	14
102	. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 4660-4678	7.2	14
101	Matrix-Free Nodal Domain Decomposition With Relaxation For Massively Parallel Finite-Element Computation of EM Apparatus. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-7	2	10
100	Fast distribution network reconfiguration with graph theory. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 3286-3295	2.5	7
99	Non-linear behavioural modelling of device-level transients for complex power electronic converter circuit hardware realisation on FPGA. <i>IET Power Electronics</i> , 2018 , 11, 1566-1574	2.2	8
98	Real-Time Contingency Analysis on Massively Parallel Architectures With Compensation Method. <i>IEEE Access</i> , 2018 , 6, 44519-44530	3.5	10
97	GPU-based parallel real-time volt/var optimisation for distribution network considering distributed generators. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 4472-4481	2.5	3
96	Two-stage stochastic demand response in smart grid considering random appliance usage patterns. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 4163-4171	2.5	18
95	Design and Implementation of Real-Time Mpsoc-FPGA-Based Electromagnetic Transient Emulator of CIGRIDC Grid for HIL Application. <i>IEEE Power and Energy Technology Systems Journal</i> , 2018 , 5, 104-116	4.3	8
94	Wavelet Neural Network Based Multiobjective Interval Prediction for Short-Term Wind Speed. <i>IEEE Access</i> , 2018 , 6, 63352-63365	3.5	23

93	A Benchmark System for Hardware-in-the-Loop Testing of Distributed Energy Resources. <i>IEEE Power and Energy Technology Systems Journal</i> , 2018 , 5, 94-103	4.3	48
92	Nonlinear Axisymmetric Magnetostatic Analysis for Electromagnetic Device Using TLM-Based Finite-Element Method. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-9	2	1
91	Behavioral Device-Level Modeling of Modular Multilevel Converters in Real Time for Variable-Speed Drive Applications. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2017 , 5, 1177-1191	5.6	23
90	Dynamic Variable Time-Stepping Schemes for Real-Time FPGA-Based Nonlinear Electromagnetic Transient Emulation. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 4006-4016	8.9	17
89	. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 7711-7720	8.9	2
88	Multi-group particle swarm optimisation for transmission expansion planning solution based on LU decomposition. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 1434-1442	2.5	5
87	Solution techniques for transient stability-constrained optimal power flow [Part I. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 3177-3185	2.5	19
86	Solution techniques for transient stability-constrained optimal power flow [Part II. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 3186-3193	2.5	13
85	A comparison of implicit and explicit methods for contingency constrained unit commitment 2017 ,		1
84	Hybrid analytical model of switched reluctance machine for real-time hardware-in-the-loop simulation. <i>IET Electric Power Applications</i> , 2017 , 11, 1114-1123	1.8	9
83	Fine-Grained Network Decomposition for Massively Parallel Electromagnetic Transient Simulation of Large Power Systems. <i>IEEE Power and Energy Technology Systems Journal</i> , 2017 , 4, 51-64	4.3	22
82	Comprehensive Electromagnetic Transient Simulation of AC/DC Grid With Multiple Converter Topologies and Hybrid Modeling Schemes. <i>IEEE Power and Energy Technology Systems Journal</i> , 2017 , 4, 40-50	4.3	9
81	Sliding mode high speed control of PMSM for electric vehicle based on flux-weakening control strategy 2017 ,		4
80	Performance analysis of GPU-accelerated fast decoupled power flow using direct linear solver 2017 ,		2
79	Real-Time Nonlinear Magnetic Equivalent Circuit Model of Induction Machine on FPGA for Hardware-in-the-Loop Simulation. <i>IEEE Transactions on Energy Conversion</i> , 2016 , 31, 520-530	5.4	36
78	. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 1191-1202	8.9	23
77	Real-Time Device-Level Transient Electrothermal Model for Modular Multilevel Converter on FPGA. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 6155-6168	7.2	66
76	Nonlinear Magnetic Equivalent Circuit-Based Real-Time Sen Transformer Electromagnetic Transient Model on FPGA for HIL Emulation. <i>IEEE Transactions on Power Delivery</i> , 2016 , 31, 2483-2493	4.3	20

75	Parallel relaxation-based joint dynamic state estimation of large-scale power systems. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 452-459	2.5	32
74	Real-time digital multi-function protection system on reconfigurable hardware. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 2295-2305	2.5	11
73	Parallel Computation of Wrench Model for Commutated Magnetically Levitated Planar Actuator. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 7621-7631	8.9	13
72	Security constrained transmission expansion planning by accelerated benders decomposition 2016 ,		2
71	. <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 679-686	1.3	18
70	Extended Kalman Filter-Based Parallel Dynamic State Estimation. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 1539-1549	10.7	93
69	Real-Time FPGA-Based Analytical Space Harmonic Model of Permanent Magnet Machines for Hardware-in-the-Loop Simulation. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-9	2	21
68	A General Framework for FPGA-Based Real-Time Emulation of Electrical Machines for HIL Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 2041-2053	8.9	70
67	Real-Time Simulation Technologies for Power Systems Design, Testing, and Analysis. <i>IEEE Power and Energy Technology Systems Journal</i> , 2015 , 2, 63-73	4.3	227
66	Applications of Real-Time Simulation Technologies in Power and Energy Systems. <i>IEEE Power and Energy Technology Systems Journal</i> , 2015 , 2, 103-115	4.3	93
65	Implementation of an FPGA-Based Online Hardware-in-the-Loop Emulator Using High-Level Synthesis Tools for Resonant Power Converters Applied to Induction Heating Appliances. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 2206-2214	8.9	36
64	A Real-Time Nonlinear Hysteretic Power Transformer Transient Model on FPGA. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 3587-3597	8.9	49
63	Physics-Based Device-Level Power Electronic Circuit Hardware Emulation on FPGA. <i>IEEE Transactions on Industrial Informatics</i> , 2014 , 10, 2166-2179	11.9	35
62	Parallel Massive-Thread Electromagnetic Transient Simulation on GPU. <i>IEEE Transactions on Power Delivery</i> , 2014 , 29, 1045-1053	4.3	45
61	Low-Latency Distance Protective Relay on FPGA. <i>IEEE Transactions on Smart Grid</i> , 2014 , 5, 896-905	10.7	13
60	Hardware Emulation Building Blocks for Real-Time Simulation of Large-Scale Power Grids. <i>IEEE Transactions on Industrial Informatics</i> , 2014 , 10, 373-381	11.9	43
59	On detailed synchronous generator modeling for massively parallel dynamic state estimation 2014 ,		1
58	Low-latency distance protective relay on FPGA 2014 ,		2

57	Multi-FPGA digital hardware design for detailed large-scale real-time electromagnetic transient simulation of power systems. <i>IET Generation, Transmission and Distribution</i> , 2013 , 7, 451-463	2.5	67
56	Accelerated parallel WLS state estimation for large-scale power systems on GPU 2013 ,		13
55	Parallel Kalman filter based time-domain harmonic state estimation 2013 ,		1
54	Multi-rate real-time model-based parameter estimation and state identification for induction motors. <i>IET Electric Power Applications</i> , 2013 , 7, 77-86	1.8	25
53	Interfacing Issues in Multiagent Simulation for Smart Grid Applications. <i>IEEE Transactions on Power Delivery</i> , 2013 , 28, 1918-1927	4.3	21
52	Design of slotted permanent magnet linear synchronous motor for improved thrust density 2013 ,		4
51	Digital Hardware Emulation of Universal Machine and Universal Line Models for Real-Time Electromagnetic Transient Simulation. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 1300-1309	8.9	56
50	Experimental Validation of a Geometrical Nonlinear Permeance Network Based Real-Time Induction Machine Model. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 4049-4062	8.9	25
49	Large-Scale Transient Stability Simulation of Electrical Power Systems on Parallel GPUs. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2012 , 23, 1255-1266	3.7	54
48	Experimental validation of a geometrical nonlinear permeance network based real-time induction machine model 2012 ,		2
47	Analytical Modeling and Design Optimization of Linear Synchronous Motor With Stair-Step-Shaped Magnetic Poles for Electromagnetic Launch Applications. <i>IEEE Transactions on Plasma Science</i> , 2012 , 40, 519-527	1.3	33
46	Novel transmission line modeling method for nonlinear permeance network based simulation of induction machines 2012 ,		1
45	Large-scale transient stability simulation of electrical power systems on parallel GPUs 2012 ,		15
44	Interfacing Issues in Real-Time Digital Simulators. <i>IEEE Transactions on Power Delivery</i> , 2011 , 26, 1221-1230	4.9	96
43	Real-Time Nonlinear Transient Simulation Based on Optimized Transmission Line Modeling. <i>IEEE Transactions on Power Systems</i> , 2011 , 26, 699-709	7	6
42	FPGA-Based Real-Time Emulation of Power Electronic Systems With Detailed Representation of Device Characteristics. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 358-368	8.9	116
41	An Iterative Real-Time Nonlinear Electromagnetic Transient Solver on FPGA. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 2547-2555	8.9	33
40	Novel Transmission Line Modeling Method for Nonlinear Permeance Network Based Simulation of Induction Machines. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 2100-2108	2	17

39	An iterative real-time nonlinear electromagnetic transient solver on FPGA 2011 ,		4
38	FPGA-based real-time emulation of power electronic systems with detailed representation of device characteristics 2011 ,		5
37	SIMD-Based Large-Scale Transient Stability Simulation on the Graphics Processing Unit. <i>IEEE Transactions on Power Systems</i> , 2010 , 25, 1589-1599	7	79
36	Interfacing Techniques for Time-Domain and Frequency-Domain Simulation Methods. <i>IEEE Transactions on Power Delivery</i> , 2010 , 25, 1796-1807	4-3	12
35	Methods of Interfacing Rotating Machine Models in Transient Simulation Programs. <i>IEEE Transactions on Power Delivery</i> , 2010 , 25, 891-903	4-3	55
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