

Venkata Dinavahi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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
199	Real-Time Digital Hardware Simulation of Power Electronics and Drives. <i>IEEE Transactions on Power Delivery</i> , 2007 , 22, 1235-1246	4.3	130
198	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
197	Simulation Tools for Electromagnetic Transients in Power Systems: Overview and Challenges. <i>IEEE Transactions on Power Delivery</i> , 2009 , 24, 1657-1669	4.3	110
196	Interfacing Issues in Real-Time Digital Simulators. <i>IEEE Transactions on Power Delivery</i> , 2011 , 26, 1221-1230	4.3	96
195	FPGA-Based Real-Time EMTP. <i>IEEE Transactions on Power Delivery</i> , 2009 , 24, 892-902	4.3	95
194	Extended Kalman Filter-Based Parallel Dynamic State Estimation. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 1539-1549	10.7	93
193	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
192	. <i>IEEE Transactions on Power Delivery</i> , 2009 , 24, 2385-2395	4.3	91
191	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
190	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
189	A versatile cluster-based real-time digital simulator for power engineering research. <i>IEEE Transactions on Power Systems</i> , 2006 , 21, 455-465	7	75
188	A review of power converter topologies for wind generators 2005 ,		74
187	Robust Massively Parallel Dynamic State Estimation of Power Systems Against Cyber-Attack. <i>IEEE Access</i> , 2018 , 6, 2984-2995	3.5	72
186	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
185	Hardware-in-the-Loop Simulation of Power Electronic Systems Using Adaptive Discretization. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 1146-1158	8.9	70
184	Distributionally Robust Chance-Constrained Energy Management for Islanded Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 2234-2244	10.7	70

183	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
182	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
181	Experimental Validation of Nonlinear Control for a Voltage Source Converter. <i>IEEE Transactions on Control Systems Technology</i> , 2009 , 17, 1135-1144	4.8	65
180	Algorithms for the accounting of multiple switching events in digital simulation of power-electronic systems. <i>IEEE Transactions on Power Delivery</i> , 2005 , 20, 1157-1167	4.3	63
179	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
178	Methods of Interfacing Rotating Machine Models in Transient Simulation Programs. <i>IEEE Transactions on Power Delivery</i> , 2010 , 25, 891-903	4.3	55
177	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
176	Impact of DG Interface Controls on the Sandia Frequency Shift Antiislanding Method. <i>IEEE Transactions on Energy Conversion</i> , 2007 , 22, 792-794	5.4	52
175	Investigation of Positive Feedback Anti-Islanding Control for Multiple Inverter-Based Distributed Generators. <i>IEEE Transactions on Power Systems</i> , 2009 , 24, 785-795	7	51
174	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
173	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
172	Design of a real-time digital Simulator for a D-STATCOM system. <i>IEEE Transactions on Industrial Electronics</i> , 2004 , 51, 1001-1008	8.9	47
171	Parallel Massive-Thread Electromagnetic Transient Simulation on GPU. <i>IEEE Transactions on Power Delivery</i> , 2014 , 29, 1045-1053	4.3	45
170	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
169	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
168	Instantaneous Relaxation-Based Real-Time Transient Stability Simulation. <i>IEEE Transactions on Power Systems</i> , 2009 , 24, 1327-1336	7	39
167	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
166	Real-Time Simulation of Grid-Connected Wind Farms Using Physical Aggregation. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 3010-3021	8.9	38

165	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
164	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
163	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
162	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
161	An Iterative Real-Time Nonlinear Electromagnetic Transient Solver on FPGA. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 2547-2555	8.9	33
160	A Tap-Changing Algorithm for the Implementation of Ben π Transformer. <i>IEEE Transactions on Power Delivery</i> , 2007 , 22, 1750-1757	4.3	33
159	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
158	Real-Time Simulation of a Wind Energy System Based on the Doubly-Fed Induction Generator. <i>IEEE Transactions on Power Systems</i> , 2009 , 24, 1301-1309	7	30
157	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
156	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
155	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
154	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
153	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
152	Detailed Real-Time Transient Model of the Ben π Transformer. <i>IEEE Transactions on Power Delivery</i> , 2008 , 23, 1513-1521	4.3	24
151	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
150	. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 1191-1202	8.9	23
149	Wavelet Neural Network Based Multiobjective Interval Prediction for Short-Term Wind Speed. <i>IEEE Access</i> , 2018 , 6, 63352-63365	3.5	23
148	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

147	Interfacing Techniques for Electromagnetic Field and Circuit Simulation Programs IEEE Task Force on Interfacing Techniques for Simulation Tools. <i>IEEE Transactions on Power Delivery</i> , 2009 , 24, 939-950	4.3	22
146	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
145	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
144	Interfacing Issues in Multiagent Simulation for Smart Grid Applications. <i>IEEE Transactions on Power Delivery</i> , 2013 , 28, 1918-1927	4.3	21
143	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
142	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
141	On Real-Time Simulation for Harmonic and Flicker Assessment of an Industrial System With Bulk Nonlinear Loads. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 2998-3009	8.9	19
140	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
139	. <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 679-686	1.3	18
138	Robust Forecasting-Aided State Estimation for Power System Against Uncertainties. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 691-702	7	18
137	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
136	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
135	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
134	Real-Time Transient Simulation Based on a Robust Two-Layer Network Equivalent. <i>IEEE Transactions on Power Systems</i> , 2007 , 22, 1771-1781	7	17
133	Large-scale transient stability simulation on graphics processing units 2009 ,		16
132	A Branch-and-Cut Benders Decomposition Algorithm for Transmission Expansion Planning. <i>IEEE Systems Journal</i> , 2019 , 13, 659-669	4.3	16
131	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
130	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

129	Large-scale transient stability simulation of electrical power systems on parallel GPUs 2012 ,		15
128	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
127	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
126	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
125	. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 4660-4678	7.2	14
124	Thermo-electric co-simulation on geographically distributed real-time simulators 2009 ,		14
123	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
122	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
121	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
120	Multistage robust energy management for microgrids considering uncertainty. <i>IET Generation, Transmission and Distribution</i> , 2019 , 13, 1906-1913	2.5	13
119	Low-Latency Distance Protective Relay on FPGA. <i>IEEE Transactions on Smart Grid</i> , 2014 , 5, 896-905	10.7	13
118	Accelerated parallel WLS state estimation for large-scale power systems on GPU 2013 ,		13
117	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
116	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
115	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
114	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
113	. <i>IEEE Access</i> , 2019 , 7, 135087-135098	3.5	12
112	Interfacing Techniques for Time-Domain and Frequency-Domain Simulation Methods. <i>IEEE Transactions on Power Delivery</i> , 2010 , 25, 1796-1807	4.3	12

111	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
110	2021,		11
109	Real-time digital multi-function protection system on reconfigurable hardware. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 2295-2305	2.5	11
108	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
107	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
106	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
105	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
104	Real-Time Contingency Analysis on Massively Parallel Architectures With Compensation Method. <i>IEEE Access</i> , 2018 , 6, 44519-44530	3.5	10
103	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
102	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
101	Geographically distributed thermo-electric co-simulation of all-electric ship 2009,		9
100	A new technique to mitigate inrush current caused by transformer energization		9
99	. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 6173-6182	8.9	9
98	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
97	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
96	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
95	Dynamic Analysis and Model Order Reduction of Virtual Synchronous Machine Based Microgrid. <i>IEEE Access</i> , 2020 , 8, 106585-106600	3.5	8
94	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

93	Adaptive Robust Cubature Kalman Filter for Power System Dynamic State Estimation Against Outliers. <i>IEEE Access</i> , 2019 , 7, 105872-105881	3.5	8
92	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
91	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
90	. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-5	2	7
89	Fast distribution network reconfiguration with graph theory. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 3286-3295	2.5	7
88	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
87	An Overview of Simulation Tools for Electromagnetic Transients in Power Systems. <i>IEEE Power Engineering Society General Meeting</i> , 2007 ,		7
86	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
85	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
84	Starlink Space Network-Enhanced CyberPhysical Power System. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 3673-3675	10.7	7
83	. <i>IEEE Transactions on Power Delivery</i> , 2018 , 33, 119-129	4.3	6
82	Real-Time Nonlinear Transient Simulation Based on Optimized Transmission Line Modeling. <i>IEEE Transactions on Power Systems</i> , 2011 , 26, 699-709	7	6
81	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
80	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
79	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
78	FPGA-based real-time emulation of power electronic systems with detailed representation of device characteristics 2011 ,		5
77	Impact of Interface Controls on the Steady-State Stability of Inverter-Based Distributed Generators. <i>IEEE Power Engineering Society General Meeting</i> , 2007 ,		5
76	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

75	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
74	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
73	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
72	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
71	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
70	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
69	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
68	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
67	Sliding mode high speed control of PMSM for electric vehicle based on flux-weakening control strategy 2017 ,		4
66	Design of slotted permanent magnet linear synchronous motor for improved thrust density 2013 ,		4
65	An iterative real-time nonlinear electromagnetic transient solver on FPGA 2011 ,		4
64	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
63	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
62	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020 , 62, 725-735	2	4
61	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
60	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
59	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
58	A Two-Layer Network Equivalent With Local Passivity Compensation With Applications to Hybrid Simulations of MMC-Based AC/DC Grids. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 4514-4524	7	3

57	Simulation tools for analysis of distribution systems with distributed resources. Present and future trends 2010 ,		3
56	Applications of real-time simulation techniques for harmonics study of an industrial power system 2008 ,		3
55	An Advanced PC-Cluster Based Real-Time Simulator for Power Electronics and Drives 2006 ,		3
54	Transient analysis of systems with multiple nonlinear elements using TLM. <i>IEEE Transactions on Power Systems</i> , 2004 , 19, 2102-2103	7	3
53	Distributionally robust multi-period energy management for CCHP-based microgrids. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 4097-4107	2.5	3
52	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
51	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
50	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
49	Variable Time-Stepping Parallel Electromagnetic Transient Simulation of Hybrid ACDC Grids. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , 2021 , 2, 90-98	2.6	3
48	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
47	. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 7711-7720	8.9	2
46	Performance analysis of GPU-accelerated fast decoupled power flow using direct linear solver 2017 ,		2
45	Low-latency distance protective relay on FPGA 2014 ,		2
44	Experimental validation of a geometrical nonlinear permeance network based real-time induction machine model 2012 ,		2
43	Impact of manual versus automatic transfer switching on the reliability levels of an industrial plant		2
42	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
41	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
40	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

39	Security constrained transmission expansion planning by accelerated benders decomposition 2016 ,		2
38	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
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