

Shaahin Filizadeh

List of Publications by Year in descending order

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76
papers

1,281
citations

471509

17
h-index

377865

34
g-index

76
all docs

76
docs citations

76
times ranked

1234
citing authors

#	ARTICLE	IF	CITATIONS
1	A Fault Detection Scheme in MTDC Systems Using a Superconducting Fault Current Limiter. IEEE Systems Journal, 2022, 16, 3867-3877.	4.6	8
2	Single-Switch Resonant Soft-Switching Ultra-High Gain DC-DC Converter With Continuous Input Current. IEEE Access, 2022, 10, 33482-33491.	4.2	13
3	Average-Value Model for a Modular Multilevel Converter With Embedded Storage. IEEE Transactions on Energy Conversion, 2021, 36, 789-799.	5.2	4
4	Studies on the combination of RSFCLs and DCCBs in MMC-MTDC system protection. International Journal of Electrical Power and Energy Systems, 2021, 125, 106532.	5.5	10
5	Assessment of dynamic phasor extraction methods for power system co-simulation applications. Electric Power Systems Research, 2021, 197, 107319.	3.6	5
6	Capacitor Energy Storage Requirements in Mixed-Submodule Hybrid Cascaded MMCs. IEEE Transactions on Energy Conversion, 2020, 35, 1638-1647.	5.2	3
7	Guest Editorial: Modeling and Simulation Methods for Analysis and Design of Advanced Energy Conversion Systems. IEEE Transactions on Energy Conversion, 2020, 35, 309-311.	5.2	0
8	Impact of Circulating Currents on Capacitor Voltage Ripple and Losses in MMCs. , 2020, , .		2
9	Multi-rate co-simulation of power system transients using dynamic phasor and EMT solvers. Journal of Engineering, 2020, 2020, 854-862.	1.1	6
10	A Co-Simulation Platform for Modeling and Testing Modular Multilevel Converters and Their Controls in Large Networks. , 2020, , .		2
11	Simulation-based Optimisation of LCC-HVDC Controller Parameters using Surrogate Model Solvers. , 2019, , .		0
12	Dynamic Phasor Modeling of LCC-HVDC Systems: Unbalanced Operation and Commutation Failure. Canadian Journal of Electrical and Computer Engineering, 2019, 42, 121-131.	2.0	15
13	Alternate arm modular multilevel converter energy balancing via overlap onset control. Journal of Engineering, 2019, 2019, 1649-1655.	1.1	4
14	Performance Analysis and Operating Limits of a Dual-Inverter Open-Winding IPMSM Drive. IEEE Transactions on Energy Conversion, 2019, 34, 1655-1666.	5.2	7
15	Analysis of Submodule Capacitor Voltage Ripple and Second-Harmonic Current in MMCs. , 2019, , .		3
16	Simulation-Based Optimization of a Piezoelectric Energy Harvester using Artificial Neural Networks and Genetic Algorithm. , 2019, , .		3
17	Modeling of a Modular Multilevel Converter With Embedded Energy Storage for Electromagnetic Transient Simulations. IEEE Transactions on Energy Conversion, 2019, 34, 2096-2105.	5.2	18
18	A Universal High-Frequency Induction Machine Model and Characterization Method for Arbitrary Stator Winding Connections. IEEE Transactions on Energy Conversion, 2019, 34, 1164-1177.	5.2	36

#	ARTICLE	IF	CITATIONS
19	Independent phase current control of a three-phase VSC under unbalanced operating conditions. Journal of Engineering, 2019, 2019, 1338-1345.	1.1	1
20	Interconnection of Northern Canadian Communities to the Manitoba Hydro Power System: Evaluation of AC and DC Alternatives. , 2019, , .		2
21	Inclusion of Abnormal Operation in Modeling of LCC-HVDC Systems Using Dynamic Phasors. , 2019, , .		0
22	Design and Implementation of a Laboratory Prototype of a Modular Multilevel Converter with Embedded Storage. , 2019, , .		1
23	A Dynamic Phasor Model of an MMC With Extended Frequency Range for EMT Simulations. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 30-40.	5.4	25
24	Multimodal Design Optimization of V-Shaped Magnet IPM Synchronous Machines. IEEE Transactions on Energy Conversion, 2018, 33, 1547-1556.	5.2	23
25	Loss Evaluation for the Hybrid Cascaded MMC Under Different Voltage-Regulation Methods. IEEE Transactions on Energy Conversion, 2018, 33, 1487-1498.	5.2	24
26	Stability Analysis of a Hybrid Modular Multilevel Voltage Source Converter. , 2018, , .		0
27	Design Optimization and Performance Prediction of Synchronous Reluctance Motors. , 2018, , .		3
28	Performance Prediction of a Dual Inverter Open Winding IPMSM Drive Considering Machine's Saturation and Losses. , 2018, , .		1
29	A Comparative Study of Optimally Designed Synchronous Reluctance Machines. , 2018, , .		2
30	Analysis and Control Considerations of an Open Winding IPMSM Drive in MTPA and FW Regions. , 2018, , .		2
31	Generalised extended frequency dynamic phasor model of LCC-HVDC systems for electromagnetic transient simulations. IET Generation, Transmission and Distribution, 2018, 12, 3061-3069.	2.5	15
32	Reduced Capacitance Battery Storage DC-Link Voltage Regulation and Dynamic Improvement Using a Feedforward Control Strategy. IEEE Transactions on Energy Conversion, 2018, 33, 1659-1668.	5.2	26
33	Co-simulation of electrical networks by interfacing EMT and dynamic-phasor simulators. Electric Power Systems Research, 2018, 163, 423-429.	3.6	9
34	Real-time implementation of an enhanced dynamic phasor-based three-phase phase-locked loop for line-commutated converters. , 2018, , .		1
35	A semi-cooperative decentralized scheduling scheme for plug-in electric vehicle charging demand. International Journal of Electrical Power and Energy Systems, 2017, 88, 119-132.	5.5	20
36	Development of a hybrid simulator by interfacing dynamic phasors with electromagnetic transient simulation. IET Generation, Transmission and Distribution, 2017, 11, 2991-3001.	2.5	24

#	ARTICLE	IF	CITATIONS
37	A comparative study of optimally designed V-shaped magnet IPM synchronous motors. , 2017, , .		1
38	Capacitorâ€voltage regulation and linearâ€range extension of a hybrid cascaded modular multilevel converter. IET Generation, Transmission and Distribution, 2017, 11, 4588-4598.	2.5	3
39	Unidirectional HVdc Topology With DC Fault Ride-Through Capability. Canadian Journal of Electrical and Computer Engineering, 2017, 40, 41-49.	2.0	11
40	Modeling modular multilevel converters using extended-frequency dynamic phasors. , 2016, , .		5
41	Simulation based optimal design and sensitivity assessment of a vector-controlled induction motor drive using a multi-modal optimization algorithm. , 2015, , .		0
42	Modeling of LCC-HVDC systems using dynamic phasors. , 2015, , .		0
43	A Parallel Multimodal Optimization Algorithm for Simulation-Based Design of Power Systems. IEEE Transactions on Power Delivery, 2015, 30, 2128-2137.	4.3	16
44	Stability Analysis of Converter-Connected Battery Energy Storage Systems in the Grid. IEEE Transactions on Sustainable Energy, 2014, 5, 1204-1212.	8.8	46
45	Modeling of LCC-HVDC Systems Using Dynamic Phasors. IEEE Transactions on Power Delivery, 2014, 29, 1989-1998.	4.3	127
46	Location-Based Forecasting of Vehicular Charging Load on the Distribution System. IEEE Transactions on Smart Grid, 2014, 5, 632-641.	9.0	54
47	Analysis of waveform approximation for the AC current of a line-commutated converter. , 2013, , .		2
48	Electromagnetic Transients Simulation-Based Surrogate Models for Tolerance Analysis of FACTS Apparatus. IEEE Transactions on Power Delivery, 2013, 28, 797-806.	4.3	8
49	Characterization of prospective charging locations of plug-in vehicles using real-world driving data. , 2013, , .		1
50	Non-real-time hardware-in-loop electromagnetic transient simulation of microcontroller-based power electronic control systems. , 2013, , .		4
51	Battery-in-the-Loop Simulation of a Planetary-Gear-Based Hybrid Electric Vehicle. IEEE Transactions on Vehicular Technology, 2013, 62, 573-581.	6.3	12
52	A VSC-HVDC model with reduced computational intensity. , 2012, , .		10
53	Electromagnetic transient simulation of large-scale electrical power networks using graphics processing units. , 2012, , .		13
54	Interfacing Issues in Real-Time Digital Simulators. IEEE Transactions on Power Delivery, 2011, 26, 1221-1230.	4.3	138

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55	Simulation of large-scale electrical power networks on graphics processing units. , 2011, , .		22
56	A surrogate-model based multi-modal optimization algorithm. Engineering Optimization, 2011, 43, 779-799.	2.6	18
57	Statistical Development of a Duty Cycle for Plug-in Vehicles in a North American Urban Setting Using Fleet Information. IEEE Transactions on Vehicular Technology, 2010, 59, 3710-3719.	6.3	120
58	Interfacing methods for design-oriented electromagnetic transient simulation. , 2009, , .		0
59	Design of a bidirectional buck-boost dc/dc converter for a series hybrid electric vehicle using PSCAD/EMTDC. , 2009, , .		10
60	An adaptive multi-modal optimization algorithm for simulation-based design of power-electronic circuits. Engineering Optimization, 2009, 41, 945-969.	2.6	8
61	An Optimized Space Vector Modulation Sequence for Improved Harmonic Performance. IEEE Transactions on Industrial Electronics, 2009, 56, 2894-2903.	7.9	90
62	Techniques for Interfacing Electromagnetic Transient Simulation Programs With General Mathematical Tools IEEE Taskforce on Interfacing Techniques for Simulation Tools. IEEE Transactions on Power Delivery, 2008, 23, 2610-2622.	4.3	29
63	Support Tools for Simulation-Based Optimal Design of Power Networks With Embedded Power Electronics. IEEE Transactions on Power Delivery, 2008, 23, 1561-1570.	4.3	21
64	Simulation of a VSC transmission scheme supplying a passive load. , 2008, , .		11
65	Electromagnetic Transient Simulation of Hybrid Electric Vehicles. , 2007, , .		4
66	Electromagnetic Transient Simulation of a Back-to-Back Voltage Source Converter Based Transmission Scheme. , 2007, , .		3
67	Analysis of Bifurcation and Stability in a Simple Power System Using MATCONT. , 2007, , .		7
68	On the Chaotic Behaviour of Buck Converters. , 2007, , .		2
69	Transient Simulation of an AC Synchronous Permanent Magnet Motor Drive for an All-Electric All-Terrain Vehicle. , 2007, , .		3
70	Analysis and Design of Vehicular Power Systems Using PSCAD/EMTDC. , 2007, , .		0
71	Modeling and Transient Simulation of an All-Electric All-Terrain Vehicle (ATV). , 2007, , .		3
72	An Optimization-Enabled Electromagnetic Transient Simulation-Based Methodology for HVDC Controller Design. IEEE Transactions on Power Delivery, 2007, 22, 2559-2566.	4.3	53

#	ARTICLE	IF	CITATIONS
73	Digital implementation and transient simulation of space-vector modulated converters. , 2006, , .		9
74	Optimization-enabled electromagnetic transient simulation. IEEE Transactions on Power Delivery, 2005, 20, 512-518.	4.3	79
75	Harmonic Performance Analysis of an OPWM-Controlled STATCOM in Network Applications. IEEE Transactions on Power Delivery, 2005, 20, 1001-1008.	4.3	18
76	Optimal design of power electronic systems using electromagnetic transient simulation. , 0, , .		2