Mariesa Crow

List of Publications by Year in descending order

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140	6,418	38	75
papers	citations	h-index	g-index
140	140	140	5233
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	The Future Renewable Electric Energy Delivery and Management (FREEDM) System: The Energy Internet. Proceedings of the IEEE, 2011, 99, 133-148.	16.4	1,232
2	Battery Energy Storage System (BESS) and Battery Management System (BMS) for Grid-Scale Applications. Proceedings of the IEEE, 2014, 102, 1014-1030.	16.4	468
3	STATCOM control for power system voltage control applications. IEEE Transactions on Power Delivery, 2000, 15, 1311-1317.	2.9	364
4	A Comparison of Diode-Clamped and Cascaded Multilevel Converters for a STATCOM With Energy Storage. IEEE Transactions on Industrial Electronics, 2006, 53, 1512-1521.	5.2	276
5	Integration of a StatCom and battery energy storage. IEEE Transactions on Power Systems, 2001, 16, 254-260.	4.6	197
6	Stochastic Optimization of Renewable-Based Microgrid Operation Incorporating Battery Operating Cost. IEEE Transactions on Power Systems, 2016, 31, 2289-2296.	4.6	168
7	Optimal Sizing of a Vanadium Redox Battery System for Microgrid Systems. IEEE Transactions on Sustainable Energy, 2015, 6, 729-737.	5.9	160
8	Improving Voltage Stability by Reactive Power Reserve Management. IEEE Transactions on Power Systems, 2005, 20, 338-345.	4.6	144
9	The Matrix Pencil for Power System Modal Extraction. IEEE Transactions on Power Systems, 2005, 20, 501-502.	4.6	125
10	Nonlinear Control of FACTS Controllers for Damping Interarea Oscillations in Power Systems. IEEE Transactions on Power Delivery, 2010, 25, 3113-3121.	2.9	119
11	Fault Detection and Mitigation in Multilevel Converter STATCOMs. IEEE Transactions on Industrial Electronics, 2011, 58, 1307-1315.	5.2	117
12	A Reconfigurable FACTS System for University Laboratories. IEEE Transactions on Power Systems, 2004, 19, 120-128.	4.6	109
13	The parallel implementation of the waveform relaxation method for transient stability simulations. IEEE Transactions on Power Systems, 1990, 5, 922-932.	4.6	108
14	Comparison of ultracapacitor electric circuit models. , 2008, , .		103
15	Structure-Preserved Power System Transient Stability Using Stochastic Energy Functions. IEEE Transactions on Power Systems, 2012, 27, 1450-1458.	4.6	102
16	An Improved UPFC Control for Oscillation Damping. IEEE Transactions on Power Systems, 2009, 24, 288-296.	4.6	94
17	Decentralized Dynamic Surface Control of Large-Scale Interconnected Systems in Strict-Feedback Form Using Neural Networks With Asymptotic Stabilization. IEEE Transactions on Neural Networks, 2011, 22, 1709-1722.	4.8	91
18	Pricing and Control in the Next Generation Power Distribution System. IEEE Transactions on Smart Grid, 2012, 3, 907-914.	6.2	90

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19	An Integrated Dynamic Voltage Restorer-Ultracapacitor Design for Improving Power Quality of the Distribution Grid. IEEE Transactions on Sustainable Energy, 2015, 6, 616-624.	5.9	89
20	A fuzzy logic based approach to direct load control. IEEE Transactions on Power Systems, 1996, 11, 708-714.	4.6	83
21	Power System Stabilization Using Adaptive Neural Network-Based Dynamic Surface Control. IEEE Transactions on Power Systems, 2011, 26, 669-680.	4.6	79
22	A Field Validated Model of a Vanadium Redox Flow Battery for Microgrids. IEEE Transactions on Smart Grid, 2014, 5, 1592-1601.	6.2	78
23	A Versatile Probability Model of Photovoltaic Generation Using Pair Copula Construction. IEEE Transactions on Sustainable Energy, 2015, 6, 1337-1345.	5.9	70
24	Online Volt-Var Control for Distribution Systems With Solid-State Transformers. IEEE Transactions on Power Delivery, 2016, 31, 343-350.	2.9	70
25	Electric Vehicle Scheduling Considering Co-optimized Customer and System Objectives. IEEE Transactions on Sustainable Energy, 2018, 9, 410-419.	5.9	66
26	A Novel Approach to Interarea Oscillation Damping by Unified Power Flow Controllers Utilizing Ultracapacitors. IEEE Transactions on Power Systems, 2010, 25, 404-412.	4.6	65
27	Performance Characterization for Photovoltaic-Vanadium Redox Battery Microgrid Systems. IEEE Transactions on Sustainable Energy, 2014, 5, 1379-1388.	5.9	65
28	Power System Voltage Regulation via STATCOM Internal Nonlinear Control. IEEE Transactions on Power Systems, 2011, 26, 1252-1262.	4.6	64
29	Performance Prediction of a Vanadium Redox Battery for Use in Portable, Scalable Microgrids. IEEE Transactions on Smart Grid, 2012, 3, 2109-2116.	6.2	63
30	Cost-Constrained Dynamic Optimal Electric Vehicle Charging. IEEE Transactions on Sustainable Energy, 2017, 8, 716-724.	5.9	63
31	An Ultracapacitor Integrated Power Conditioner for Intermittency Smoothing and Improving Power Quality of Distribution Grid. IEEE Transactions on Sustainable Energy, 2014, 5, 1145-1155.	5.9	56
32	Numerical simulation of Stochastic Differential Algebraic Equations for power system transient stability with random loads. , $2011, \dots$		53
33	Improving the Dynamic Response of a Flying-Capacitor Three-Level Buck Converter. IEEE Transactions on Power Electronics, 2013, 28, 2356-2365.	5.4	53
34	Heterogeneous Energy Storage Optimization for Microgrids. IEEE Transactions on Smart Grid, 2016, 7, 1453-1461.	6.2	52
35	The multirate method for simulation of power system dynamics. IEEE Transactions on Power Systems, 1994, 9, 1684-1690.	4.6	51
36	Comparison of Matrix Pencil and Prony methods for power system modal analysis of noisy signals. , 2011, , .		50

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37	Zero-Sum Two-Player Game Theoretic Formulation of Affine Nonlinear Discrete-Time Systems Using Neural Networks. IEEE Transactions on Cybernetics, 2013, 43, 1641-1655.	6.2	49
38	The Fokker-Planck Equation for Power System Stability Probability Density Function Evolution. IEEE Transactions on Power Systems, 2013, 28, 2994-3001.	4.6	48
39	An Improved Nonlinear STATCOM Control for Electric Arc Furnace Voltage Flicker Mitigation. IEEE Transactions on Power Delivery, 2009, 24, 2284-2290.	2.9	45
40	Performance Indices for the Dynamic Performance of FACTS and FACTS with Energy Storage. Electric Power Components and Systems, 2004, 33, 299-314.	1.0	44
41	Distributed Power Balancing for the FREEDM System. , 2010, , .		44
42	Stability Design Criteria for Distribution Systems With Solid-State Transformers. IEEE Transactions on Power Delivery, 2014, 29, 0-0.	2.9	44
43	Multi-Objective Dynamic Economic Dispatch with Demand Side Management of Residential Loads and Electric Vehicles. Energies, 2017, 10, 624.	1.6	37
44	An Integrated Active Power Filter–Ultracapacitor Design to Provide Intermittency Smoothing and Reactive Power Support to the Distribution Grid. IEEE Transactions on Sustainable Energy, 2014, 5, 1116-1125.	5.9	33
45	Economic Scheduling of Residential Plug-In (Hybrid) Electric Vehicle (PHEV) Charging. Energies, 2014, 7, 1876-1898.	1.6	31
46	A Variable Partitioning Strategy for the Multirate Method in Power Systems. IEEE Transactions on Power Systems, 2008, 23, 259-266.	4.6	30
47	Decentralized Power Sharing Control for Parallel-Connected Inverters in Islanded Single-Phase Micro-Grids. IEEE Transactions on Smart Grid, 2018, 9, 6721-6730.	6.2	29
48	The Waveform Relaxation method for systems of differential/algebraic equations. Mathematical and Computer Modelling, 1994, 19, 67-84.	2.0	28
49	Novel Dynamic Representation and Control of Power Systems With FACTS Devices. IEEE Transactions on Power Systems, 2010, 25, 1542-1554.	4.6	28
50	Performance evaluation of energy efficient lighting associated with renewable energy applications. Renewable Energy, 2012, 44, 423-430.	4.3	26
51	Robust Current Control of Grid-Tied Inverters for Renewable Energy Integration Under Non-Ideal Grid Conditions. IEEE Transactions on Sustainable Energy, 2020, 11, 477-488.	5.9	26
52	Computational Methods for Electric Power Systems. , 0, , .		26
53	Intelligent Energy Management of the FREEDM System. , 2010, , .		21
54	Optimization in energy and power management for renewable-diesel microgrids using Dynamic Programming algorithm. , 2012, , .		18

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55	An analysis of power system transient stability using stochastic energy functions. International Transactions on Electrical Energy Systems, 2013, 23, 151-165.	1.2	18
56	Flexible method for power network planning using the unascertained number. Electric Power Systems Research, 2004, 68, 41-46.	2.1	17
57	Distributed Generation and Storage Optimal Control With State Estimation. IEEE Transactions on Smart Grid, 2013, 4, 2266-2273.	6.2	17
58	Stability Assessment Extensions for Single-Phase Distribution Solid-State Transformers. IEEE Transactions on Power Delivery, 2015, 30, 1636-1638.	2.9	17
59	Computational Methods for Electric Power Systems. , 0, , .		17
60	Nonlinear parameter estimation of excitation systems. IEEE Transactions on Power Systems, 2000, 15, 1225-1231.	4.6	16
61	Distributed Grid Intelligence for future microgrid with renewable sources and storage. , 2010, , .		15
62	The New Centurions. IEEE Power and Energy Magazine, 2010, 8, 20-26.	1.6	15
63	The Existence of Multiple Equilibria in the UPFC Power Injection Model. IEEE Transactions on Power Systems, 2007, 22, 2280-2282.	4.6	14
64	A novel PLL system based on adaptive resonant filter. , 2008, , .		14
65	Zero-sum two-player game theoretic formulation of affine nonlinear discrete-time systems using neural networks., 2010,,.		14
66	A Novel Real-Time Approach to Unified Power Flow Controller Validation. IEEE Transactions on Power Systems, 2010, 25, 1892-1901.	4.6	14
67	A Balance-of-Plant Vanadium Redox Battery System Model. IEEE Transactions on Sustainable Energy, 2015, 6, 557-564.	5.9	14
68	Microgrid application with computer models and power management integrated using PSCAD/EMTDC. , 2011, , .		13
69	A Feedback Linearization Based Unified Power Flow Controller Internal Controller for Power Flow Control. Electric Power Components and Systems, 2012, 40, 628-647.	1.0	13
70	A Transactive Operating Model for Smart Airport Parking Lots. IEEE Power and Energy Technology Systems Journal, 2018, 5, 157-166.	3.5	13
71	Mitigating Event Confidentiality Violations in Smart Grids: An Information Flow Security-Based Approach. IEEE Transactions on Smart Grid, 2013, 4, 1227-1234.	6.2	12
72	Decentralized DC Voltage and Power Sharing Control of the Parallel Grid Converters in Multi-Terminal DC Power Integration System. IEEE Transactions on Sustainable Energy, 2019, 10, 1971-1980.	5.9	12

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73	Neural Network Based Decentralized Controls of Large Scale Power Systems., 2007,,.		11
74	Optimal Placement and Control of Unified Power Flow Control devices using Evolutionary Computing and Sequential Quadratic Programming. , 2006, , .		10
75	Damping inter-area oscillations in power systems by STATCOMs. , 2008, , .		10
76	Design of a Conditioner for smoothing wind turbine output power. , 2010, , .		10
77	Modeling of multi-terminal VSC-based HVDC system. , 2016, , .		10
78	Tightening QC Relaxations of AC Optimal Power Flow Problems via Complex Per Unit Normalization. IEEE Transactions on Power Systems, 2021, 36, 281-291.	4.6	10
79	Empirical Investigation of Non-Convexities in Optimal Power Flow Problems. , 2018, , .		10
80	A feasibility study of on-line excitation system parameter estimation. IEEE Transactions on Power Systems, 1998, 13, 910-916.	4.6	9
81	Cascading Line Outage Prevention with Multiple UPFCs. , 2007, , .		9
82	A comparison of linear and nonlinear STATCOM control for power quality enhancement. , 2008, , .		9
83	An analysis of the impact of plug-in hybrid electric vehicles on power system stability. , 2009, , .		9
84	A novel phase-locked-loop and its application in STATCOM system. , 2010, , .		9
85	Adaptive quadrant filter based phase locked loop system. , 2010, , .		9
86	Predicting performance of a renewable energy-powered microgrid throughout the United States using typical meteorological year 3 data. Renewable Energy, 2013, 55, 189-195.	4.3	9
87	Clustering-based methodology for optimal residential time of use design structure. , 2014, , .		9
88	A Novel Flow Invariants-Based Approach to Microgrid Management. IEEE Transactions on Smart Grid, 2015, 6, 516-525.	6.2	8
89	Dynamics of voltage instability and collapse. International Journal of Electrical Power and Energy Systems, 1994, 16, 235-241.	3.3	7
90	An energy based approach to undervoltage load shedding. Electric Power Systems Research, 1995, 32, 11-18.	2.1	7

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91	An Open Framework for Highly Concurrent Real-Time Hardware-in-the-Loop Simulation. , 2008, , .		7
92	Integrating research results into a power engineering curriculum. IEEE Transactions on Power Systems, 1999, 14, 404-411.	4.6	6
93	Dynamic response improvement in a buck type converter using capacitor current feed-forward control. , 2010, , .		6
94	Programmed for Success: Educating Tomorrow's Workforce [From the Guest Editor. IEEE Power and Energy Magazine, 2010, 8, 14-17.	1.6	6
95	Development of a Mobile Water Disinfection Unit Powered by Renewable Energy. Journal of Energy Engineering - ASCE, 2011, 137, 207-213.	1.0	6
96	Computer models for microgrid applications. , 2011, , .		6
97	Discussion on Effective Control of Inter-Area Oscillations by UPFCs. , 2007, , .		5
98	Optimal placement and signal selection for wide-area controlled UPFCs for damping power system oscillations. , 2009, , .		5
99	Vulnerability analysis of a smart grid with monitoring and control system. , 2013, , .		5
100	Comparison of Various Trilinear Monomial Envelopes for Convex Relaxations of Optimal Power Flow Problems. , $2018, \ldots$		5
101	New Infeed Correction Methods for Distance Protection in Distribution Systems. Energies, 2021, 14, 4652.	1.6	5
102	Voltage collapse. IEEE Potentials, 1994, 13, 18-21.	0.2	4
103	Damping inter-area oscillations by UPFCs based on selected global measurements. , 2008, , .		4
104	Dynamic response improvement in a three-level buck type converter. , 2010, , .		4
105	Feedback linearization internal control for the unified power flow controller. , 2010, , .		4
106	Investigation on singularity of stochastic differential algebraic power system model. , $2011, \ldots$		4
107	Using Conditional Probability to Predict Solar-Powered Pump-and-Treat Performance. Journal of Hazardous, Toxic, and Radioactive Waste, 2013, 17, 31-37.	1.2	4
108	Multi-objective electric vehicle scheduling considering customer and system objectives. , 2017, , .		4

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109	Synchronverter-based Control of Multi-Port Autonomous Reconfigurable Solar Plants (MARS). , 2020, , .		4
110	Impact of Load Tap Changing Transformers on Power Transfer Capability. Electric Power Components and Systems, 2004, 32, 1331-1346.	1.0	3
111	Symbolic Reduction for High-Speed Power System Simulation. Simulation, 2008, 84, 297-309.	1.1	3
112	Test bed evaluation of future power distribution systems with renewable resources., 2009,,.		3
113	Decentralized control of large scale interconnected systems using adaptive neural network-based dynamic surface control., 2009,,.		3
114	Dynamic placement and signal selection for UPFCs in wide-area controlled power systems. , 2010, , .		3
115	An automated forward operating base electrical distribution system simulator. , 2012, , .		3
116	The Fokker-Planck equation for power system stability probability density function evolution. , 2014, , .		3
117	Capture Zone Comparison for Photovoltaic Microgrid-Powered Pump and Treat Remediation. Journal of Hazardous, Toxic, and Radioactive Waste, 2014, 18, .	1.2	3
118	An integrated active power filter-ultracapacitor design to provide intermittency smoothing and reactive power support to the distribution grid. , 2015, , .		3
119	Economic and battery health conscious vehicle-to-grid electric vehicle operation. , 2016, , .		3
120	A Chain Method for Preconditioned Iterative Linear Solvers for Power System Matrices. IEEE Transactions on Power Systems, 2018, 33, 166-173.	4.6	3
121	The Effect of Various UPFC Operating Points on Transient Stability. , 2006, , .		2
122	Comparisons Of An Adaptive Neural Network Based Controller And An Optimized Conventional Power System Stabilizer. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	2
123	Development of a FACTS Real-Time Hardware-in-the-Loop Simulation. , 2007, , .		2
124	A hardware-in-loop FACTS control system design for real-time power system simulation. , 2009, , .		2
125	Dynamic response improvement in H-bridge enhanced buck converter., 2012,,.		2
126	Novel dynamic representation and control of power networks embedded with FACTS devices. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	1

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127	Power engineering education: Challenges and opportunities. , 2008, , .		1
128	Hamiltonian theory based coordinated nonlinear control of generator excitation and STATCOMs. , 2010, , .		1
129	Fokker-Planck equation application to analysis of a simplified wind turbine model. , 2012, , .		1
130	Modeling of vanadium redox battery by field analysis and neural network approach. , 2014, , .		1
131	Computationally efficient solvers for power system applications. , 2015, , .		1
132	An ultracapacitor integrated power conditioner for intermittency smoothing and improving power quality of distribution grid. , 2015 , , .		1
133	A First Course in Power: Can a Single Course Serve All Students?. , 2007, , .		O
134	Questioning the metrics for performance evaluation. , 2008, , .		0
135	Proposal writing from three perspectives: Technical Communication, Engineering, and science. , 2009, , .		O
136	Ultracapacitor frequency analysis and its equivalent circuit modeling. , 2009, , .		0
137	Distributed Power Generation at State Facilities: Economic Analysis of Savings and Carbon Credits. , 2009, , .		O
138	A Mobile Emergency Drinking Water System Powered by Renewable Energy. , 2009, , .		0
139	Distribution system operation with solid state controller and energy storage management. , 2012, , .		0
140	A Solid State Transformer Model for Proper Integration to Distribution Networks. , 2019, , .		0