

# m jaya Bharata Reddy

## List of Publications by Year in descending order

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96  
papers

1,807  
citations

304701

22  
h-index

302107

39  
g-index

98  
all docs

98  
docs citations

98  
times ranked

1430  
citing authors

#	ARTICLE	IF	CITATIONS
1	Distance Protection Methodology for Detection of Faulted Phase and Fault Along With Power Swing Using Apparent Impedance. IEEE Access, 2022, 10, 43583-43597.	4.2	5
2	A real-time DWT and traveling waves-based multi-functional scheme for transmission line protection reinforcement. Electrical Engineering, 2021, 103, 965-981.	2.0	13
3	Dynamic State Estimation of Synchronous Generator Rotor Angle Using PMU and EKF Under Stressed Conditions. Lecture Notes in Electrical Engineering, 2021, , 213-222.	0.4	0
4	Performance Evaluation of R-PLL for Robust Sensorless Operation of DFIG under Harmonics, DC Offset and Phase Jump in Grid Voltage. , 2021, , .		2
5	Experimental study on the charging and discharging behaviour of capricâ€“lauric acid/oleic acid mixture in a cold thermal energy storage system for cold storage applications. Materials Today: Proceedings, 2021, 46, 10022-10029.	1.8	4
6	EHV/UHV Transmission Line Protection Using Traveling Waves. Lecture Notes in Electrical Engineering, 2021, , 565-572.	0.4	1
7	Probabilistic Study of Undervoltage Load Shedding Scheme to Mitigate the Impact of Protection System Hidden Failures. IEEE Systems Journal, 2020, 14, 862-869.	4.6	8
8	Role of microphasor measurement unit for decision making based on enhanced situational awareness of a modern distribution system. , 2020, , 181-199.		5
9	Synchrophasor Measurement-Assisted System Integrity Protection Scheme for Smart Power Grid. Journal of Control, Automation and Electrical Systems, 2020, 31, 207-225.	2.0	8
10	PMU-based intelligent island detection â€“ the first crucial step toward enhancing grid resilience with MG. IET Smart Grid, 2020, 3, 162-173.	2.2	12
11	Synchrophasor Sensors Assisted Novel Algorithm for Power System Protection Reinforcement and Health Monitoring. IEEE Sensors Journal, 2020, 20, 8213-8222.	4.7	1
12	A Real-Time Synchronized Harmonic Phasor Measurements-Based Fault Location Method for Transmission Lines. Journal of Control, Automation and Electrical Systems, 2019, 30, 1082-1093.	2.0	5
13	Analysis and Modeling of Protection System Hidden Failures and Its Impact on Power System Cascading Events. Journal of Control, Automation and Electrical Systems, 2019, 30, 277-291.	2.0	6
14	A Real-Time Synchrophasor-Based Zone-3 Supervision of Distance Relays Under Load Encroachment Condition. IEEE Systems Journal, 2019, 13, 4227-4235.	4.6	16
15	MPPT algorithm for thermoelectric generators based on parabolic extrapolation. IET Generation, Transmission and Distribution, 2019, 13, 821-828.	2.5	9
16	Islanding detection in a distribution system: A pattern assessment based approach using Concordia analysis. , 2019, , .		1
17	Guest Editorial: Emerging Trends in System Integrity Protection Schemes (SIPS) for Improving the Performance of Smart Grid. IET Generation, Transmission and Distribution, 2019, 13, 1191-1193.	2.5	1
18	Islanding detection using bi-directional energy meter in a DFIG based active distribution network. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
19	Standards and Communication Systems in Smart Grid. Energy Systems in Electrical Engineering, 2019, , 283-327.	0.7	0
20	How Is Earthing Done?. IEEE Potentials, 2018, 37, 42-46.	0.3	5
21	Shifting of research trends in islanding detection method - a comprehensive survey. Protection and Control of Modern Power Systems, 2018, 3, .	7.5	99
22	Real-time condition monitoring of substation equipment using thermal cameras. IET Generation, Transmission and Distribution, 2018, 12, 895-902.	2.5	30
23	Phasor Measurement Sensor-Based Angular Stability Retention System for Smart Power Grids With High Penetration of Microgrids. IEEE Sensors Journal, 2018, 18, 764-772.	4.7	5
24	Online Fault Detection and Diagnosis in Photovoltaic Systems Using Wavelet Packets. IEEE Journal of Photovoltaics, 2018, 8, 257-265.	2.5	113
25	Enhanced Power Output from the PV with Low Input Ripple DC-DC Converter. Electric Power Components and Systems, 2018, 46, 1288-1299.	1.8	4
26	Robust fault analysis in transmission lines using Synchrophasor measurements. Protection and Control of Modern Power Systems, 2018, 3, .	7.5	15
27	Recent Trends on Performance Analysis of Latency on Wide Area Technologies in Smart Grids. , 2018, , .		1
28	PMU based Distance Protection Methodology to Avert Malfunction due to FACTS controllers. , 2018, , .		2
29	Fuzzy Reliability Analysis of Unit Commitment Problem Considering Uncertain Outage Replacement Rate and Load Representation. , 2018, , .		0
30	Smart inadvertent islanding detection employing p-type PMU for an active distribution network. IET Generation, Transmission and Distribution, 2018, 12, 4615-4625.	2.5	26
31	An Effective Switching Algorithm for Single Phase Matrix Converter in Induction Heating Applications. Electronics (Switzerland), 2018, 7, 149.	3.1	21
32	PMU based adaptive zone settings of distance relays for protection of multi-terminal transmission lines. Protection and Control of Modern Power Systems, 2018, 3, .	7.5	10
33	Real-Time Wide-Area Disturbance Monitoring and Protection Methodology for EHV Transmission lines. INAE Letters, 2018, 3, 87-106.	1.0	3
34	Remote monitoring system for real time detection and classification of transmission line faults in a power grid using PMU measurements. Protection and Control of Modern Power Systems, 2018, 3, .	7.5	40
35	Automatic licence plate detection using adaptive neuro fuzzy inference system and wavelet packets. Australian Journal of Multi-Disciplinary Engineering, 2017, 13, 2-17.	0.8	2
36	An on-line geographical information system-based condition monitoring system for 11-kv distribution line insulator. IEEE Electrical Insulation Magazine, 2017, 33, 26-32.	0.8	8

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37	An adaptive supervised wide-area backup protection scheme for transmission lines protection. Protection and Control of Modern Power Systems, 2017, 2, .	7.5	10
38	Sliding Mode Control of Single-Phase Grid-Connected Quasi-Z-Source Inverter. IEEE Access, 2017, 5, 10232-10240.	4.2	51
39	Sensor-Less Estimation of Rotor Position in a Doubly Fed Induction Machine. , 2017, , 171-204.		1
40	Synchrophasor Assisted Adaptive Relaying Methodology to Prevent Zone-3 Mal-operation During Load Encroachment. IEEE Sensors Journal, 2017, , 1-1.	4.7	14
41	Efficiency enhancement of thermal power plants using refrigerant-R600a in condenser section. , 2017, , .		0
42	Real-time implementation of phasor measurement unit using NI CompactRIO. , 2017, , .		1
43	A wavelet-adaptive network based fuzzy inference system for location of faults in parallel transmission lines. , 2016, , .		12
44	An adaptive secure-dependable wide-area backup protection scheme for transmission lines using Multi-Phasor Measurement Units. , 2016, , .		2
45	A novel transmission line protection using DOST and SVM. Engineering Science and Technology, an International Journal, 2016, 19, 1027-1039.	3.2	18
46	Real-time fault analysis of transmission lines using wavelet multi-resolution analysis based frequency-domain approach. IET Science, Measurement and Technology, 2016, 10, 693-703.	1.6	30
47	A case study on optimal phasor measurement unit placement for emerging Indian national smart grid. , 2016, , .		4
48	A wavelet based novel technique for detection and classification of parallel transmission line faults. , 2016, , .		5
49	Fault Classification in Transmission Lines Using Wavelet Multiresolution Analysis. IEEE Potentials, 2016, 35, 38-44.	0.3	24
50	Detection of islanding in microgrid using wavelet-MRA. , 2015, , .		1
51	Pragmatic multi-stage simulated annealing for optimal placement of synchrophasor measurement units in smart power grids. Frontiers in Energy, 2015, 9, 148-161.	2.3	6
52	Intelligent optimization of renewable resource mixes incorporating the effect of fuel risk, fuel cost and CO2 emission. Frontiers in Energy, 2015, 9, 91-105.	2.3	16
53	A Control Strategy for Hybrid Autonomous Power System with a Battery Management Scheme. Electric Power Components and Systems, 2015, 43, 1159-1172.	1.8	4
54	Adaptive fault identification and classification methodology for smart power grids using synchronous phasor angle measurements. IET Generation, Transmission and Distribution, 2015, 9, 133-145.	2.5	66

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55	A Dual DC Output Power Supply for a Stand-alone Photovoltaic System. <i>Electric Power Components and Systems</i> , 2015, 43, 939-950.	1.8	5
56	Renewable Power Generation Indian Scenario: A Review. <i>Electric Power Components and Systems</i> , 2015, 43, 1205-1213.	1.8	20
57	Fault Detection and Localization Methodology for Self-healing in Smart Power Grids Incorporating Phasor Measurement Units. <i>Electric Power Components and Systems</i> , 2015, 43, 695-710.	1.8	24
58	Transmission line fault detection and localisation methodology using PMU measurements. <i>IET Generation, Transmission and Distribution</i> , 2015, 9, 1033-1042.	2.5	86
59	A Novel Topological Genetic Algorithm-Based Phasor Measurement Unit Placement and Scheduling Methodology for Enhanced State Estimation. <i>Electric Power Components and Systems</i> , 2015, 43, 1843-1858.	1.8	16
60	A multifunctional real-time power quality monitoring system using Stockwell transform. <i>IET Science, Measurement and Technology</i> , 2014, 8, 155-169.	1.6	25
61	Smart Fault Location for Smart Grid Operation Using RTUs and Computational Intelligence Techniques. <i>IEEE Systems Journal</i> , 2014, 8, 1260-1271.	4.6	78
62	Wavelet based transmission line fault analysis: A literature survey. , 2014, , .		5
63	Impact of adaptive relaying in Smart Grid. , 2014, , .		3
64	Letter to the Editor: Stability Concerns in Smart Grid with Emerging Renewable Energy Technologies. <i>Electric Power Components and Systems</i> , 2014, 42, 418-425.	1.8	32
65	Stability Control of Smart Power Grids with Artificial Intelligence and Wide-area Synchrophasor Measurements. <i>Electric Power Components and Systems</i> , 2014, 42, 1095-1106.	1.8	6
66	Renewable energy utilization using low power microgrid system. , 2013, , .		4
67	Well-being analysis of GSI transformer insulation incorporating the impact on power generation using fuzzy logic. <i>Frontiers in Energy</i> , 2013, 7, 288-299.	2.3	3
68	Optimal redundant placement of PMUs in Indian power grid " northern, eastern and north-eastern regions. <i>Frontiers in Energy</i> , 2013, 7, 413-428.	2.3	17
69	Applications of type-2 fuzzy logic in power systems: A literature survey. , 2013, , .		3
70	Novel multi-stage simulated annealing for optimal placement of PMUs in conjunction with conventional measurements. , 2013, , .		11
71	Condition monitoring of 11 kV distribution system insulators incorporating complex imagery using combined DOST-SVM approach. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2013, 20, 664-674.	2.9	64
72	Robust transmission line fault classification using wavelet multi-resolution analysis. <i>Computers and Electrical Engineering</i> , 2013, 39, 1219-1247.	4.8	45

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73	Optimal placement of PMUs for the smart grid implementation in Indian power grid – A case study. <i>Frontiers in Energy</i> , 2013, 7, 358-372.	2.3	23
74	Power quality analysis using Discrete Orthogonal S-transform (DOST). , 2013, 23, 616-626.		56
75	Hardware implementation of grid connected PV system with energy management scheme. , 2013, , .		8
76	Optimal placement of phasor measurement units for Tamil Nadu state of Indian power grid. , 2012, , .		3
77	Reliability evaluation of solar photovoltaic microgrid. , 2012, , .		6
78	Generation reliability evaluation incorporating maintenance scheduling and load forecasting. , 2012, , .		3
79	Impact of distributed energy resources on distribution system reliability. , 2012, , .		3
80	Topological analysis of eastern region of Indian power grid. , 2011, , .		5
81	A DSP based frequency domain approach for non-stationary signals using S-Transform. , 2011, , .		2
82	A DOST based approach for the condition monitoring of 11 kV distribution line insulators. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2011, 18, 588-595.	2.9	59
83	A modular approach for classification and location of arcing and non-arcing faults on transmission lines. <i>International Journal of Energy Technology and Policy</i> , 2011, 7, 309.	0.2	4
84	Detection, classification and localization of power system impulsive transients using S-transform. , 2010, , .		3
85	A constant frequency hybrid exciter for an autonomous wind energy conversion system. , 2010, , .		0
86	Power quality analysis on ehv transmission line using modified S-transform. , 2010, , .		2
87	Condition monitoring of distribution line insulators using discrete s-transform. , 2010, , .		0
88	A Wavelet-Support Vector Machine Combined Approach for Location of Transmission Line Faults. <i>Australian Journal of Electrical and Electronics Engineering</i> , 2009, 6, 45-54.	1.2	3
89	A DSP based frequency domain approach for classification of transmission line faults. , 2008, 18, 751-761.		8
90	Adaptive-neuro-fuzzy inference system approach for transmission line fault classification and location incorporating effects of power swings. <i>IET Generation, Transmission and Distribution</i> , 2008, 2, 235.	2.5	112

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91	Performance Evaluation of an Adaptive-Network-Based Fuzzy Inference System Approach for Location of Faults on Transmission Lines Using Monte Carlo Simulation. IEEE Transactions on Fuzzy Systems, 2008, 16, 909-919.	9.8	79
92	Reply to Discussion on "A Wavelet-neuro-fuzzy Combined Approach for Digital Relaying of Transmission Line Faults" by Tarkan Erdik and Zekai Åžen. Electric Power Components and Systems, 2008, 36, 1390-1394.	1.8	1
93	A Wavelet-neuro-fuzzy Combined Approach for Digital Relaying of Transmission Line Faults. Electric Power Components and Systems, 2007, 35, 1385-1407.	1.8	55
94	A wavelet-fuzzy combined approach for classification and location of transmission line faults. International Journal of Electrical Power and Energy Systems, 2007, 29, 669-678.	5.5	139
95	Power System Disturbance Recognition Using Wavelet and S-Transform Techniques. International Journal of Emerging Electric Power Systems, 2004, 1, .	0.8	32
96	Effect of PCM-based cold storage system under periodic and continuous operations on physico-chemical characteristics of mango ( <i>mangifera indica</i> L.) fruit and performance evaluation of mango cold storage systems. International Journal of Ambient Energy, 0, , 1-51.	2.5	1