Ashok Kumar Pradhan

List of Publications by Year
in descending order

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113	3,282	126708	161609
papers	citations	33 h-index	54 g-index

114	114	114	1804
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adaptive Phasor and Frequency-Tracking Schemes for Wide-Area Protection and Control. IEEE Transactions on Power Delivery, 2011, 26, 744-753.	2.9	148
2	Wide-Area Measurement-Based Backup Protection for Power Network With Series Compensation. IEEE Transactions on Power Delivery, 2014, 29, 1970-1977.	2.9	140
3	Synchrophasor-Assisted Zone 3 Operation. IEEE Transactions on Power Delivery, 2014, 29, 660-667.	2.9	132
4	Fuzzy Partitioning of a Real Power System for Dynamic Vulnerability Assessment. IEEE Transactions on Power Systems, 2009, 24, 1356-1365.	4.6	122
5	A Traveling Wave-Based Fault Location Method Using Unsynchronized Current Measurements. IEEE Transactions on Power Delivery, 2019, 34, 505-513.	2.9	122
6	A Fault Detection Technique for the Series-Compensated Line During Power Swing. IEEE Transactions on Power Delivery, 2013, 28, 714-722.	2.9	118
7	An Accurate Noniterative Fault-Location Technique for Low-Voltage DC Microgrid. IEEE Transactions on Power Delivery, 2016, 31, 475-481.	2.9	117
8	Protection of Smart DC Microgrid With Ring Configuration Using Parameter Estimation Approach. IEEE Transactions on Smart Grid, 2018, 9, 6328-6337.	6.2	115
9	Robust Detection and Analysis of Power System Oscillations Using the Teager-Kaiser Energy Operator. IEEE Transactions on Power Systems, 2011, 26, 323-333.	4.6	105
10	Power-Swing Detection Using Moving Window Averaging of Current Signals. IEEE Transactions on Power Delivery, 2015, 30, 368-376.	2.9	100
11	Automatic Segmentation of Large Power Systems Into Fuzzy Coherent Areas for Dynamic Vulnerability Assessment. IEEE Transactions on Power Systems, 2007, 22, 1974-1985.	4.6	99
12	A Positive-Sequence Directional Relaying Algorithm for Series-Compensated Line. IEEE Transactions on Power Delivery, 2010, 25, 2288-2298.	2.9	97
13	Differential Power-Based Symmetrical Fault Detection During Power Swing. IEEE Transactions on Power Delivery, 2012, 27, 1557-1564.	2.9	97
14	Secured Zone 3 Protection During Stressed Condition. IEEE Transactions on Power Delivery, 2015, 30, 89-96.	2.9	78
15	A Superimposed Current Based Unit Protection Scheme for DC Microgrid. IEEE Transactions on Smart Grid, 2018, 9, 3917-3919.	6.2	78
16	Real-Time Multiple Event Detection and Classification in Power System Using Signal Energy Transformations. IEEE Transactions on Industrial Informatics, 2019, 15, 1521-1531.	7.2	75
17	DC Ring Bus Microgrid Protection Using the Oscillation Frequency and Transient Power. IEEE Systems Journal, 2019, 13, 875-884.	2.9	71
18	Precise Traveling Wave-Based Transmission Line Fault Location Method Using Single-Ended Data. IEEE Transactions on Industrial Informatics, 2021, 17, 5197-5207.	7.2	54

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19	Enhanced Protection Security Using the System Integrity Protection Scheme (SIPS). IEEE Transactions on Power Delivery, 2016, 31, 228-235.	2.9	49
20	An Integrated Approach for Directional Relaying of the Double-Circuit Line. IEEE Transactions on Power Delivery, 2011, 26, 1783-1792.	2.9	47
21	A Superimposed Current Based Unit Protection Scheme for DC Microgrid. , 2019, , .		47
22	Detection and Classification of Faults in Solar PV Array Using Thevenin Equivalent Resistance. IEEE Journal of Photovoltaics, 2020, 10, 644-654.	1.5	46
23	Directional Relaying During Single-Pole Tripping Using Phase Change in Negative-Sequence Current. IEEE Transactions on Power Delivery, 2013, 28, 1548-1557.	2.9	41
24	Directional relaying for double circuit line with series compensation. IET Generation, Transmission and Distribution, 2013, 7, 405-413.	1.4	40
25	Real-Time Event Classification in Power System With Renewables Using Kernel Density Estimation and Deep Neural Network. IEEE Transactions on Smart Grid, 2019, 10, 6849-6859.	6.2	40
26	Adaptive Distance Relaying for Distribution Lines Connecting Inverter-Interfaced Solar PV Plant. IEEE Transactions on Industrial Electronics, 2021, 68, 2300-2309.	5.2	40
27	A Method for Accurate Parameter Estimation of Series Compensated Transmission Lines Using Synchronized Data. IEEE Transactions on Power Systems, 2017, 32, 4843-4850.	4.6	39
28	Wide area measurement based protection support during power swing. International Journal of Electrical Power and Energy Systems, 2014, 63, 546-554.	3.3	38
29	MVDC Microgrid Protection Using a Centralized Communication With a Localized Backup Scheme of Adaptive Parameters. IEEE Transactions on Power Delivery, 2019, 34, 869-878.	2.9	38
30	Adaptive Distance Protection for Lines Connecting Converter-Interfaced Renewable Plants. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 7088-7098.	3.7	38
31	Voltage control of PV inverter connected to unbalanced distribution system. IET Renewable Power Generation, 2019, 13, 1587-1594.	1.7	37
32	Adaptive distance relay setting for series compensated line. International Journal of Electrical Power and Energy Systems, 2013, 52, 198-206.	3.3	36
33	An Accurate Fault Location Method for Multi-Circuit Series Compensated Transmission Lines. IEEE Transactions on Power Systems, 2017, 32, 572-580.	4.6	35
34	Directional Relaying in the Presence of a Thyristor-Controlled Series Capacitor. IEEE Transactions on Power Delivery, 2013, 28, 628-636.	2.9	34
35	Mitigating Subsynchronous Resonance Using Synchrophasor Data Based Control of Wind Farms. IEEE Transactions on Power Delivery, 2020, 35, 364-376.	2.9	34
36	Distributed Synchronized Control in Grid Integrated Wind Farms to Improve Primary Frequency Regulation. IEEE Transactions on Power Systems, 2020, 35, 362-373.	4.6	32

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37	Power Network Protection Using Wide-Area Measurements Considering Uncertainty in Data Availability. IEEE Systems Journal, 2018, 12, 3358-3368.	2.9	27
38	A Three-Terminal Line Protection<?Pub _newline ?>Scheme Immune to Power Swing. IEEE Transactions on Power Delivery, 2016, 31, 999-1006.	2.9	26
39	Adaptive Zone-1 Setting Following Structural and Operational Changes in Power System. IEEE Transactions on Power Delivery, 2018, 33, 560-569.	2.9	26
40	Online voltage stability and load margin assessment using wide area measurements. International Journal of Electrical Power and Energy Systems, 2019, 108, 392-401.	3.3	26
41	Protection of Networked Microgrids Using Relays With Multiple Setting Groups. IEEE Transactions on Industrial Informatics, 2022, 18, 3713-3723.	7.2	26
42	A Cosine Similarity-Based Centralized Protection Scheme for dc Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5646-5656.	3.7	25
43	Synchronised dataâ€based adaptive backup protection for series compensated line. IET Generation, Transmission and Distribution, 2014, 8, 1979-1986.	1.4	23
44	Adaptive Relay Setting for Protection of Distribution System with Solar PV. , 2018, , .		23
45	Online identification of protection element failure using wide area measurements. IET Generation, Transmission and Distribution, 2015, 9, 115-123.	1.4	22
46	Synchrophasor-Based Intelligent Autoreclosing Scheme for Series Compensated Transmission Lines. IEEE Transactions on Power Delivery, 2017, 32, 2255-2262.	2.9	22
47	Real-Time Analysis of Power System Protection Schemes Using Synchronized Data. IEEE Transactions on Industrial Informatics, 2018, 14, 3831-3839.	7.2	21
48	Accurate Phasor Estimation During Power Swing. IEEE Transactions on Power Delivery, 2016, 31, 130-137.	2.9	20
49	Adaptive Fault Type Classification for Transmission Network Connecting Converter-Interfaced Renewable Plants. IEEE Systems Journal, 2021, 15, 4025-4036.	2.9	19
50	Parameter Estimation of Resonant Fault Current Limiter for Protection and Stability Analysis. IEEE Transactions on Power Systems, 2017, 32, 2288-2295.	4.6	18
51	Wide Area Predictive Control of Power System Considering Communication Delay and Data Drops. IEEE Transactions on Industrial Informatics, 2019, 15, 3243-3253.	7.2	18
52	Adaptive Direct Underreaching Transfer Trip Protection Scheme for the Three-Terminal Line. IEEE Transactions on Power Delivery, 2015, 30, 2383-2391.	2.9	17
53	Supervising distance relay during power swing using synchrophasor measurements. IET Generation, Transmission and Distribution, 2017, 11, 4136-4145.	1.4	17
54	Cosine Similarity Based Directional Comparison Scheme for Subcycle Transmission Line Protection. IEEE Transactions on Power Delivery, 2020, 35, 2159-2167.	2.9	16

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55	Adaptive Unit Protection for Lines Connecting Large Solar Plants Using Incremental Current Ratio. IEEE Systems Journal, 2022, 16, 3272-3283.	2.9	16
56	Detecting fault during power swing for a series compensated line. , 2011, , .		15
57	Model Free Traveling Wave Based Fault Location Method for Series Compensated Transmission Line. IEEE Access, 2020, 8, 193128-193137.	2.6	15
58	An Adaptive Underfrequency Load Shedding Scheme in the Presence of Solar Photovoltaic Plants. IEEE Systems Journal, 2021, 15, 1235-1244.	2.9	15
59	Adaptive Î± â€plane line differential protection. IET Generation, Transmission and Distribution, 2017, 11, 2468-2477.	1.4	14
60	A Local measurement based protection technique for distribution system with photovoltaic plants. IET Renewable Power Generation, 2020, 14, 996-1003.	1.7	14
61	Model Verification of Fixed Series Compensation Devices Using Synchronized Data. IEEE Transactions on Power Delivery, 2016, 31, 174-181.	2.9	13
62	Positive Sequence Relaying Method for Solar Photovoltaic Integrated Distribution System. IEEE Transactions on Power Delivery, 2021, 36, 3519-3528.	2.9	11
63	Faulty Line Identification Algorithm for Secured Backup Protection Using PMUs. Electric Power Components and Systems, 2017, 45, 491-504.	1.0	10
64	Resilient protection scheme preserving system integrity during stressed condition. IET Generation, Transmission and Distribution, 2019, 13, 3188-3194.	1.4	10
65	A Spectrum Similarity Approach for Identifying Coherency Change Patterns in Power System Due to Variability in Renewable Generation. IEEE Transactions on Power Systems, 2019, 34, 3769-3779.	4.6	10
66	Travellingâ€waveâ€based protection of transmission line using singleâ€end data. IET Generation, Transmission and Distribution, 2019, 13, 4659-4666.	1.4	10
67	Power quality disturbances classification using support vector machines with optimised time-frequency kernels. International Journal of Power Electronics, 2012, 4, 181.	0.1	9
68	Faulted section identification for DC distribution systems using smart meter data. IET Generation, Transmission and Distribution, 2018, 12, 1030-1037.	1.4	9
69	Realâ€time event identification using synchrophasor data from selected buses. IET Generation, Transmission and Distribution, 2018, 12, 1664-1671.	1.4	9
70	Model-free angle stability assessment using wide area measurements. International Journal of Electrical Power and Energy Systems, 2020, 120, 105972.	3.3	9
71	Reducing current transformer saturation effect in phasor measurement unit. International Transactions on Electrical Energy Systems, 2016, 26, 1397-1407.	1.2	8
72	Travelling Wave Based Directional Relaying Without Using Voltage Transients. IEEE Transactions on Power Delivery, 2021, 36, 3274-3277.	2.9	8

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73	PCA-LSTM Learning Networks With Markov Chain Models for Online Classification of Cyber-Induced Outages in Power System. IEEE Systems Journal, 2021, 15, 3948-3957.	2.9	7
74	Accurate Superimposed Component Estimation for Improved Relay Performance During Power Swing. IEEE Systems Journal, 2022, 16, 6119-6129.	2.9	7
75	Maximum efficiency of flexible AC transmission systems. International Journal of Electrical Power and Energy Systems, 2006, 28, 581-588.	3.3	6
76	PMU based real time power system state estimation using ePHASORsim. , 2016, , .		6
77	A comparative study of voltage stability indices used for power system operation. , 2016, , .		6
78	Supervisory Protection of Islanded Network Using Synchrophasor Data. IEEE Transactions on Smart Grid, 2019, 10, 1772-1780.	6.2	6
79	Synchrophasor-Assisted Prediction of Stability/Instability of a Power System. International Journal of Emerging Electric Power Systems, 2013, 14, 1-8.	0.6	5
80	Time-Domain Protection and Fault Location of Wye-Connected Shunt Capacitor Banks Using Superimposed Current and Differential Voltage. IEEE Transactions on Power Delivery, 2021, 36, 3486-3495.	2.9	5
81	Wavelet probability distribution mapping for detection and correction of dynamic data injection attacks in WAMS. International Journal of Electrical Power and Energy Systems, 2022, 134, 107447.	3.3	5
82	Bus protection in systems with inverter interfaced renewables using composite sequence currents. International Journal of Electrical Power and Energy Systems, 2022, 136, 107665.	3.3	5
83	Protecting Distribution Systems With Inverter-Interfaced PV Plants Using Q-Axis Components. IEEE Systems Journal, 2022, 16, 1763-1773.	2.9	4
84	A Traveling Wave Based Method for Protection of Shunt Capacitor Bank. IEEE Transactions on Power Delivery, 2022, 37, 2599-2609.	2.9	4
85	Time-Domain Techniques for Line Protection Using Three-Dimensional Cartesian Coordinates. IEEE Transactions on Power Delivery, 2022, 37, 3740-3751.	2.9	4
86	Wide Area backup protection using weighted apparent impedance. , 2015, , .		3
87	Improved Transverse Current Differential Protection Resistant to Power Swing. INAE Letters, 2016, 1, 53-58.	1.0	3
88	Wide-area measurement system-based supervision of protection schemes with minimum number of phasor measurement units. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160295.	1.6	3
89	Testing a communication assisted protection scheme for AC microgrid in a laboratory setup. , 2017, , .		3
90	Investigating the impact of protection system reinforcement cost on the consumers associated with renewable integrated distribution network. IET Generation, Transmission and Distribution, 2019, 13, 1572-1588.	1.4	3

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91	A Hybrid Time-Domain Protection Scheme for Series Compensated Transmission Lines. IEEE Transactions on Power Delivery, 2022, 37, 1823-1833.	2.9	3
92	Time-Domain Directional Relaying Using Only Fault Current for Distribution System With PV Plant. IEEE Transactions on Power Delivery, 2022, 37, 2867-2874.	2.9	3
93	Differential power based symmetrical fault detection during power swing. , 2013, , .		2
94	Adaptive Voltage Restrained Overcurrent Relaying for Protection of Distribution System with PV Plant. , 2021, , .		2
95	Stability assessment using synchrophasor data. , 2011, , .		1
96	Directional relaying during single-pole tripping using phase-change in negative sequence current. , 2015, , .		1
97	Network protection security enhancement based on power flow assessment. , 2016, , .		1
98	Guest Editorial Special Section on Frontiers of Power System Protection. IEEE Transactions on Power Delivery, 2016, 31, 1785-1786.	2.9	1
99	Adaptive Zone-1 Setting Following Structural and Operational Changes in Power System. , 2018, , .		1
100	A Method for Accurate Parameter Estimation of Series Compensated Transmission Lines Using Synchronized Data. , 2018, , .		1
101	Synchrophasor Data Based Distributed Droop Control in Grid Integrated Wind Farms to Improve Primary Frequency Response. , 2019, , .		1
102	Online Voltage Stability Assessment using Wide Area Measurements. , 2019, , .		1
103	Subcycle transmission line protection using time-domain similarity measure. International Journal of Electrical Power and Energy Systems, 2022, 137, 107766.	3.3	1
104	Fast and Sensitive Time-Domain Protection of Shunt Capacitor Banks. , 2021, , .		1
105	Faulted Section Identification in Mixed Lines Using One End Current Traveling Waves. IEEE Systems Journal, 2023, 17, 1443-1452.	2.9	1
106	Directional relaying of series compensated line using an integrated approach. , 2011, , .		0
107	Enhanced alpha plane line protection. , 2016, , .		0
108	Effects of line parameter and fault location errors on model verification of fixed series compensation. , 2016, , .		0

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109	A Transfer Trip Scheme to Supervise Zone 3 Operation. INAE Letters, 2016, 1, 9-13.	1.0	0
110	Improving PV Array Output During Partial Shading using Voltage Balancing Approach. , 2018, , .		0
111	Performance Analysis Of P-V And Q-F Droop Control Strategy In An Islanded Resistive Microgrid During Partial Shading On Photovoltaic Plant. , 2018, , .		0
112	A State Predictive Approach to Mitigate Communication Latency and Data Loss for Wide Area Control of Power System. , 2019, , .		0
113	Line Protection Challenges and Its Mitigation in a New Grid Scenario. , 2021, , .		0