

Anjan Bose

List of Publications by Year in descending order

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53
papers

2,799
citations

331670

21
h-index

330143

37
g-index

53
all docs

53
docs citations

53
times ranked

2569
citing authors

#	ARTICLE	IF	CITATIONS
1	Smart Transmission Grid Applications and Their Supporting Infrastructure. IEEE Transactions on Smart Grid, 2010, 1, 11-19.	9.0	499
2	Design of Wide-Area Damping Controllers for Interarea Oscillations. IEEE Transactions on Power Systems, 2008, 23, 1136-1143.	6.5	339
3	Bandwidth and Latency Requirements for Smart Transmission Grid Applications. IEEE Transactions on Smart Grid, 2012, 3, 1344-1352.	9.0	291
4	A Linearized OPF Model With Reactive Power and Voltage Magnitude: A Pathway to Improve the MW-Only DC OPF. IEEE Transactions on Power Systems, 2018, 33, 1734-1745.	6.5	211
5	Smart Generation and Transmission With Coherent, Real-Time Data. Proceedings of the IEEE, 2011, 99, 928-951.	21.3	140
6	Transition to a Two-Level Linear State Estimator—Part II: Algorithm. IEEE Transactions on Power Systems, 2011, 26, 54-62.	6.5	94
7	Mixed-integer second-order cone programming model for VAR optimisation and network reconfiguration in active distribution networks. IET Generation, Transmission and Distribution, 2016, 10, 1938-1946.	2.5	92
8	Optimal power flow based on successive linear approximation of power flow equations. IET Generation, Transmission and Distribution, 2016, 10, 3654-3662.	2.5	86
9	Distribution Automation Strategies Challenges and Opportunities in a Changing Landscape. IEEE Transactions on Smart Grid, 2015, 6, 2157-2165.	9.0	84
10	Security, trust, and QoS in next-generation control and communication for large power systems. International Journal of Critical Infrastructures, 2008, 4, 3.	0.2	70
11	Distribution Automation Strategies: Evolution of Technologies and the Business Case. IEEE Transactions on Smart Grid, 2015, 6, 2166-2175.	9.0	68
12	Decentralized Communication and Control Systems for Power System Operation. IEEE Transactions on Smart Grid, 2015, 6, 885-893.	9.0	68
13	Optimal Power Flow in AC-DC Grids With Discrete Control Devices. IEEE Transactions on Power Systems, 2018, 33, 1461-1472.	6.5	68
14	Optimal Reactive Power Dispatch With Accurately Modeled Discrete Control Devices: A Successive Linear Approximation Approach. IEEE Transactions on Power Systems, 2017, 32, 2435-2444.	6.5	67
15	Modeling and Analysis of HVDC Converter by Three-Phase Dynamic Phasor. IEEE Transactions on Power Delivery, 2014, 29, 3-12.	4.3	62
16	Risk-Based Probabilistic Quantification of Power Distribution System Operational Resilience. IEEE Systems Journal, 2020, 14, 3506-3517.	4.6	55
17	Design, Testing, and Implementation of a Linear State Estimator in a Real Power System. IEEE Transactions on Smart Grid, 2017, 8, 1782-1789.	9.0	51
18	LMP Revisited: A Linear Model for the Loss-Embedded LMP. IEEE Transactions on Power Systems, 2017, 32, 4080-4090.	6.5	50

#	ARTICLE	IF	CITATIONS
19	Transmission capacity in power networks. International Journal of Electrical Power and Energy Systems, 1998, 20, 99-110.	5.5	44
20	Paving the Way for Advanced Distribution Management Systems Applications: Making the Most of Models and Data. IEEE Power and Energy Magazine, 2020, 18, 63-75.	1.6	43
21	Smart grid communication requirements for the high voltage power system. , 2011, , .		31
22	Engineering the Future. IEEE Power and Energy Magazine, 2010, 8, 27-35.	1.6	26
23	A Novel On-Line Substation Instrument Transformer Health Monitoring System Using Synchrophasor Data. IEEE Transactions on Power Delivery, 2019, 34, 1451-1459.	4.3	26
24	Reinventing the utility for distributed energy resources: A proposal for retail electricity markets. Advances in Applied Energy, 2021, 2, 100026.	13.2	23
25	GridCloud: Infrastructure for Cloud-Based Wide Area Monitoring of Bulk Electric Power Grids. IEEE Transactions on Smart Grid, 2019, 10, 2170-2179.	9.0	21
26	The Effects of External Modeling Errors on On-Line Security Analysis. IEEE Transactions on Power Systems, 1986, 1, 227-231.	6.5	20
27	Load modeling and voltage optimization using smart meter infrastructure. , 2013, , .		17
28	A Distributed Multi-Control-Center Dynamic Power Flow Algorithm Based on Asynchronous Iteration Scheme. IEEE Transactions on Power Systems, 2018, 33, 1716-1724.	6.5	17
29	Secure Loss of Excitation Detection Method for Synchronous Generators During Power Swing Conditions. IEEE Transactions on Energy Conversion, 2018, 33, 1907-1916.	5.2	17
30	Probabilistic Quantification of Power Distribution System Operational Resilience. , 2019, , .		12
31	Multiple Communication Topologies for PMU-Based Applications: Introduction, Analysis and Simulation. IEEE Transactions on Smart Grid, 2020, 11, 5051-5061.	9.0	12
32	Power System Model Development for the Control Center Security Analysis Functions. IEEE Transactions on Power Systems, 1986, 1, 308-313.	6.5	11
33	A Framework for Coordinated Self-Assembly of Networked Microgrids Using Consensus Algorithms. IEEE Access, 2022, 10, 3864-3878.	4.2	11
34	Discussion of the solvability of HVDC systems power flow with a sequential method. Electric Power Systems Research, 2012, 92, 155-161.	3.6	10
35	On-line short-circuit current analysis and preventive control to extend equipment life. IET Generation, Transmission and Distribution, 2013, 7, 69-75.	2.5	9
36	Implementing multi-settlement decentralized electricity market design for transactive communities with imperfect communication. Applied Energy, 2022, 306, 117979.	10.1	9

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37	Topology error identification using a two-stage DC state estimator. Electric Power Systems Research, 2005, 74, 167-175.	3.6	7
38	Model-Free Voltage Control for Inverter-Based Energy Resources: Algorithm, Simulation and Field Test Verification. IEEE Transactions on Energy Conversion, 2021, 36, 1207-1215.	5.2	6
39	Analysis of the Volt/VAr control scheme for smart distribution feeders. , 2012, , .		5
40	Distributed Optimization for Power Distribution Systems with Cyber-Physical Co-Simulation. , 2021, , .		5
41	Parallel processing in dynamic simulation of power systems. Sadhana - Academy Proceedings in Engineering Sciences, 1993, 18, 815-841.	1.3	4
42	Improved continuation power flow method for AC/DC power system. , 2011, , .		4
43	New computer applications for system operations using phasor measurements. , 2012, , .		3
44	Effects on state estimation of time-skew errors in inter-utility data exchange. Electric Power Systems Research, 1991, 22, 165-171.	3.6	2
45	Renewable energy integration and the control and protection paradigms of the future. , 2012, , .		2
46	Erkios: End-to-end field-based RAS testing. , 2015, , .		2
47	Optimal reactive power dispatch with accurately modeled discrete control devices: A successive linear approximation approach. , 2017, , .		2
48	A Framework to Quantify the Value of Operational Resilience for Electric Power Distribution Systems. , 2020, , .		2
49	Risk-driven Planning for System Upgrades to Enhance Resilience of Distribution Systems. , 2020, , .		1
50	New modelling, analysis and computation techniques needed for power system control centres. International Journal of Electrical Power and Energy Systems, 1993, 15, 163-168.	5.5	0
51	Wide area control framework design considering different feedback time delays. , 2012, , .		0
52	A Distributed Multi-control-center Dynamic Power Flow Algorithm Based on Asynchronous Iteration Scheme. , 2018, , .		0
53	Distributed Generator Sizing for Joint Optimization of Resilience and Voltage Regulation. , 2018, , .		0