

Guangya Yang

List of Publications by Year in descending order

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102
papers

3,172
citations

185998

28
h-index

174990

52
g-index

104
all docs

104
docs citations

104
times ranked

2713
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of Challenges and Research Opportunities for Voltage Control in Smart Grids. IEEE Transactions on Power Systems, 2019, 34, 2790-2801.	4.6	270
2	Future low-inertia power systems: Requirements, issues, and solutions - A review. Renewable and Sustainable Energy Reviews, 2020, 124, 109773.	8.2	219
3	A Decentralized Storage Strategy for Residential Feeders With Photovoltaics. IEEE Transactions on Smart Grid, 2014, 5, 974-981.	6.2	168
4	A Review on Grid-Connected Converter Control for Short-Circuit Power Provision Under Grid Unbalanced Faults. IEEE Transactions on Power Delivery, 2018, 33, 649-661.	2.9	137
5	Combination of Synchronous Condenser and Synthetic Inertia for Frequency Stability Enhancement in Low-Inertia Systems. IEEE Transactions on Sustainable Energy, 2019, 10, 997-1005.	5.9	125
6	Probabilistic Forecasting of Photovoltaic Generation: An Efficient Statistical Approach. IEEE Transactions on Power Systems, 2017, 32, 2471-2472.	4.6	124
7	Optimal controller design of a doubly-fed induction generator wind turbine system for small signal stability enhancement. IET Generation, Transmission and Distribution, 2010, 4, 579.	1.4	116
8	Demand profile study of battery electric vehicle under different charging options. , 2012, , .		95
9	A Modified Differential Evolution Algorithm With Fitness Sharing for Power System Planning. IEEE Transactions on Power Systems, 2008, 23, 514-522.	4.6	93
10	Aggregator Operation in the Balancing Market Through Network-Constrained Transactive Energy. IEEE Transactions on Power Systems, 2019, 34, 4071-4080.	4.6	93
11	Application of Network-Constrained Transactive Control to Electric Vehicle Charging for Secure Grid Operation. IEEE Transactions on Sustainable Energy, 2017, 8, 505-515.	5.9	88
12	EV Charging Facilities and Their Application in LV Feeders With Photovoltaics. IEEE Transactions on Smart Grid, 2013, 4, 1533-1540.	6.2	85
13	A Scenario-Based Approach for Energy Storage Capacity Determination in LV Grids With High PV Penetration. IEEE Transactions on Smart Grid, 2014, 5, 1514-1522.	6.2	82
14	Voltage regulation in LV grids by coordinated volt-var control strategies. Journal of Modern Power Systems and Clean Energy, 2014, 2, 319-328.	3.3	82
15	Transactive control: a framework for operating power systems characterized by high penetration of distributed energy resources. Journal of Modern Power Systems and Clean Energy, 2017, 5, 451-464.	3.3	81
16	Transactive Energy Supported Economic Operation for Multi-Energy Complementary Microgrids. IEEE Transactions on Smart Grid, 2021, 12, 4-17.	6.2	80
17	A review of offshore wind farm layout optimization and electrical system design methods. Journal of Modern Power Systems and Clean Energy, 2019, 7, 975-986.	3.3	78
18	TCSC Allocation Based on Line Flow Based Equations Via Mixed-Integer Programming. IEEE Transactions on Power Systems, 2007, 22, 2262-2269.	4.6	64

#	ARTICLE	IF	CITATIONS
19	Impact of VSC Control Strategies and Incorporation of Synchronous Condensers on Distance Protection Under Unbalanced Faults. IEEE Transactions on Industrial Electronics, 2019, 66, 1108-1118.	5.2	64
20	Improvement of Local Voltage in Feeders With Photovoltaic Using Electric Vehicles. IEEE Transactions on Power Systems, 2013, 28, 3515-3516.	4.6	55
21	Offshore Wind Farm-Grid Integration: A Review on Infrastructure, Challenges, and Grid Solutions. IEEE Access, 2021, 9, 102811-102827.	2.6	50
22	Transactive Energy for Aggregated Electric Vehicles to Reduce System Peak Load Considering Network Constraints. IEEE Access, 2020, 8, 31519-31529.	2.6	48
23	Voltage rise mitigation for solar PV integration at LV grids. Journal of Modern Power Systems and Clean Energy, 2015, 3, 411-421.	3.3	46
24	Probabilistic Forecasting Based Sizing and Control of Hybrid Energy Storage for Wind Power Smoothing. IEEE Transactions on Sustainable Energy, 2021, 12, 1841-1852.	5.9	46
25	Allocation of synchronous condensers for restoration of system short-circuit power. Journal of Modern Power Systems and Clean Energy, 2018, 6, 17-26.	3.3	32
26	Cable routing optimization for offshore wind power plants via wind scenarios considering power loss cost model. Applied Energy, 2019, 254, 113719.	5.1	32
27	Optimal Wind-Solar Capacity Allocation With Coordination of Dynamic Regulation of Hydropower and Energy Intensive Controllable Load. IEEE Access, 2020, 8, 110129-110139.	2.6	32
28	Co-optimized trading of hybrid wind power plant with retired EV batteries in energy and reserve markets under uncertainties. International Journal of Electrical Power and Energy Systems, 2020, 117, 105631.	3.3	31
29	Investigation on the Combined Effect of VSC-Based Sources and Synchronous Condensers Under Grid Unbalanced Faults. IEEE Transactions on Power Delivery, 2019, 34, 1898-1908.	2.9	30
30	Synchronous Condenser Allocation for Improving System Short Circuit Ratio. , 2018, , .		29
31	Multi-time Scale Energy Management Strategy of Aggregator Characterized by Photovoltaic Generation and Electric Vehicles. Journal of Modern Power Systems and Clean Energy, 2020, 8, 727-736.	3.3	26
32	LSTM-based Energy Management for Electric Vehicle Charging in Commercial-building Prosumers. Journal of Modern Power Systems and Clean Energy, 2021, 9, 1205-1216.	3.3	24
33	Transactive Energy Sharing in a Microgrid via an Enhanced Distributed Adaptive Robust Optimization Approach. IEEE Transactions on Smart Grid, 2022, 13, 2279-2293.	6.2	23
34	Probabilistic Wind Power Forecasting with Hybrid Artificial Neural Networks. Electric Power Components and Systems, 2016, 44, 1656-1668.	1.0	22
35	Multi-agents modelling of EV purchase willingness based on questionnaires. Journal of Modern Power Systems and Clean Energy, 2015, 3, 149-159.	3.3	20
36	Decentralized Energy Storage in Residential Feeders with Photovoltaics. , 2015, , 277-294.		19

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37	Frequency stability enhancement for low inertia systems using synthetic inertia of wind power. , 2017, , .		19
38	Identifying and Ranking Sources of SSR Based on the Concept of Subsynchronous Power. IEEE Transactions on Power Delivery, 2020, 35, 258-268.	2.9	19
39	Simultaneous Optimisation of Cable Connection Schemes and Capacity for Offshore Wind Farms via a Modified Bat Algorithm. Applied Sciences (Switzerland), 2019, 9, 265.	1.3	18
40	Hardware- and Software-in-the-Loop Simulation for Parameterizing the Model and Control of Synchronous Condensers. IEEE Transactions on Sustainable Energy, 2019, 10, 1593-1602.	5.9	17
41	A co-ordinated dispatch model for electricity and heat in a Microgrid via particle swarm optimization. Transactions of the Institute of Measurement and Control, 2013, 35, 44-55.	1.1	16
42	Adaptive ultra-short-term wind power prediction based on risk assessment. CSEE Journal of Power and Energy Systems, 2016, 2, 59-64.	1.7	16
43	Voltage unbalance mitigation in LV networks using three-phase PV systems. , 2015, , .		15
44	A review of cyber-physical energy system security assessment. , 2017, , .		15
45	Frequency stability improvement of low inertia systems using synchronous condensers. , 2016, , .		14
46	A Technical & Economic Evaluation of Inertial Response From Wind Generators and Synchronous Condensers. IEEE Access, 2021, 9, 7183-7192.	2.6	14
47	Investigation of PMU Performance Under TVE criterion. , 2010, , .		13
48	Distributionally robust chance-constrained flexibility planning for integrated energy system. International Journal of Electrical Power and Energy Systems, 2022, 135, 107417.	3.3	13
49	Effect of reactive power management of PV inverters on need for energy storage. , 2013, , .		12
50	Network constrained transactive control for electric vehicles integration. , 2015, , .		12
51	A Distributed Transactive Energy Mechanism for Integrating PV and Storage Prosumers in Market Operation. Engineering, 2022, 12, 171-182.	3.2	12
52	Storage application in smart grid with high PV and EV penetration. , 2013, , .		11
53	Hardware-in-the-loop tests on distance protection considering VSC fault-ride-through control strategies. Journal of Engineering, 2018, 2018, 824-829.	0.6	11
54	Economic Assessment of Network-Constrained Transactive Energy for Managing Flexible Demand in Distribution Systems. Energies, 2017, 10, 711.	1.6	10

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55	Distributed congestion management of distribution networks to integrate prosumers energy operation. IET Generation, Transmission and Distribution, 2020, 14, 2988-2996.	1.4	10
56	A Network-Constrained Rolling Transactive Energy Model for EV Aggregators Participating in Balancing Market. IEEE Access, 2020, 8, 47720-47729.	2.6	10
57	Applying Synchronous Condenser for Damping Provision in Converter-dominated Power System. Journal of Modern Power Systems and Clean Energy, 2021, 9, 639-647.	3.3	10
58	Flexibility Prediction of Aggregated Electric Vehicles and Domestic Hot Water Systems in Smart Grids. Engineering, 2021, 7, 1101-1114.	3.2	10
59	Interval estimation of voltage magnitude in radial distribution feeder with minimal data acquisition requirements. International Journal of Electrical Power and Energy Systems, 2019, 113, 281-287.	3.3	9
60	Data-driven approaches for optimizing EV aggregator power profile in energy and reserve market. International Journal of Electrical Power and Energy Systems, 2021, 129, 106808.	3.3	9
61	Analysis of thevenin equivalent network of a distribution system for solar integration studies. , 2012, , .		8
62	Battery parameterisation based on differential evolution via a boundary evolution strategy. Journal of Power Sources, 2014, 245, 583-593.	4.0	8
63	Effects of centralized and local PV plant control for voltage regulation in LV feeder based on cyber-physical simulations. Journal of Modern Power Systems and Clean Energy, 2018, 6, 979-991.	3.3	8
64	Multi-agent modeling and analysis of EV users'™ travel willingness based on an integrated causal/statistical/behavioral model. Journal of Modern Power Systems and Clean Energy, 2018, 6, 1255-1263.	3.3	8
65	Fault Analysis Method Considering Dual-Sequence Current Control of VSCs under Unbalanced Faults. Energies, 2018, 11, 1660.	1.6	7
66	Addressing the Security of a Future Sustainable Power System: The Danish SOSPO Project. , 2012, , .		6
67	Comparative study of different transformer connections for railway power supply-mitigation of voltage unbalance. , 2015, , .		6
68	A Hybrid System Consisting of Synchronous Condenser and Battery - Enhanced Services for Weak Systems. , 2019, , .		6
69	A Coordinated Heat and Electricity Dispatching Model for Microgrid Operation via PSO. Communications in Computer and Information Science, 2010, , 213-219.	0.4	6
70	Resilience is inversely associated with self-harm behaviors among Chinese adolescents with childhood maltreatment. PeerJ, 2020, 8, e9800.	0.9	6
71	Application of functional modelling for monitoring of WTC in a cyber-physical environment. IET Cyber-Physical Systems: Theory and Applications, 2019, 4, 79-87.	1.9	5
72	Guest Editorial Introduction to the Special Section on Transactive Approaches to Integration of Flexible Demand and Distributed Generation. IEEE Transactions on Power Systems, 2019, 34, 3991-3993.	4.6	5

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73	Challenges and Research Opportunities of Frequency Control in Low Inertia Systems. E3S Web of Conferences, 2019, 115, 02001.	0.2	5
74	TCSC allocation based on line flow based equations via mixed-integer programming. , 2008, , .		4
75	Enhancing Short-Circuit Level and Dynamic Reactive Power Exchange in GB Transmission Networks under Low Inertia Scenarios. , 2019, , .		4
76	Convex optimization of virtual storage system scheduling in market environment. Journal of Modern Power Systems and Clean Energy, 2019, 7, 1744-1748.	3.3	4
77	Talega SynCon - Power Grid Support for Renewable-based Systems. , 2019, , .		4
78	Impedance scan and characterization of Type 4 wind power plants through aggregated model. , 2019, , .		4
79	Test Platform for Rapid Prototyping of Digital Control for Power Electronic Converters. , 2019, , .		4
80	Investigation of grid-connected voltage source converter performance under unbalanced faults. , 2016, , .		3
81	Distance relay performance in future converter dominated power systems. , 2017, , .		3
82	Cable Connection Scheme Optimization for Offshore Wind Farm Considering Wake Effect. , 2018, , .		3
83	Cable Connection Optimization for Heterogeneous Offshore Wind Farms via a Voronoi Diagram Based Adaptive Particle Swarm Optimization with Local Search. Energies, 2021, 14, 644.	1.6	3
84	Talega SynCon - Power Grid Support for Renewable-based Systems. , 2020, , .		3
85	Power System Stability Impact Assessment for the Current Limits of Grid Supporting Voltage-Source Converters. , 2021, , .		3
86	A Novel TCSC Planning Model Based on Line Flow Equations Via MILP. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	2
87	Experimental Study on EV Purchases Assisted by Multi-agents Representing a Set of Questionnaires. Communications in Computer and Information Science, 2014, , 449-459.	0.4	2
88	Cooperation of Offshore Wind Farm with Battery Storage in Multiple Electricity Markets. , 2018, , .		2
89	Solar PV plant for supplying ancillary services in distribution systems. Journal of Engineering, 2019, 2019, 4946-4949.	0.6	2
90	Static Operational Impacts of Residential Solar PV Plants on the Medium Voltage Distribution Grids—A Case Study Based on the Danish Island Bornholm. Energies, 2019, 12, 1458.	1.6	2

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91	Evaluation of HVDC system's impact and quantification of synchronous compensation for distance protection. IET Renewable Power Generation, 2022, 16, 1925-1940.	1.7	2
92	Implementation of a Simplified State Estimator for Wind Turbine Monitoring on an Embedded System. , 2017, , .		1
93	Control parameterisation for POD via softwareâ€”inâ€”theâ€”loop simulation. Journal of Engineering, 2019, 2019, 4864-4868.	0.6	1
94	Improved MIMO Modeling and Enhanced Transient Performance of Phase-Locked Loop During Grid Fault. IEEE Transactions on Industrial Electronics, 2022, 69, 3711-3721.	5.2	1
95	Augmented Power Dispatch for Resilient Operation through Controllable Series Compensation and N-1-1 Contingency Assessment. Energies, 2021, 14, 4756.	1.6	1
96	Influence of collection network parameters on performance of distance protection directional elements in offshore wind farms. , 2020, , .		1
97	Modeling and testing of EVs â€” Preliminary study and laboratory development. , 2011, , .		0
98	Test of PV inverters under unbalanced operation. Journal of Engineering, 2019, 2019, 5325-5329.	0.6	0
99	Modelling and Passivity Analysis of VSC Output Impedance under SRF and \hat{I}^2 Control Frames. , 2019, , .		0
100	LSTM Network-Based Method for Flexibility Prediction of Aggregated Electric Vehicles in Smart Grid. Lecture Notes in Electrical Engineering, 2021, , 962-974.	0.3	0
101	Optimal Scheduling of PV and Battery Storage at Distribution Network considering Grid Tariffs. , 2018, , .		0
102	Battery Energy Storage System Modelling in DIgSILENT PowerFactory. Power Systems, 2021, , 177-200.	0.3	0