

Yang Du

List of Publications by Year in descending order

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43
papers

1,577
citations

361413

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580821

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g-index

43
all docs

43
docs citations

43
times ranked

1324
citing authors

#	ARTICLE	IF	CITATIONS
1	Air quality forecasting with hybrid LSTM and extended stationary wavelet transform. Building and Environment, 2022, 213, 108822.	6.9	33
2	Reference-Voltage-Line-Aided Power Incremental Algorithm for Photovoltaic GMPPT and Partial Shading Detection. IEEE Transactions on Sustainable Energy, 2022, 13, 1756-1770.	8.8	9
3	Potential Benefits for Residential Building with Photovoltaic Battery System Participation in Peer-to-Peer Energy Trading. Energies, 2022, 15, 3913.	3.1	4
4	Towards the applicability of solar nowcasting: A practice on predictive PV power ramp-rate control. Renewable Energy, 2022, 195, 147-166.	8.9	9
5	A Comparative Study on Photovoltaic MPPT Algorithms Under EN50530 Dynamic Test Procedure. IEEE Transactions on Power Electronics, 2021, 36, 4153-4168.	7.9	67
6	Deep Learning Based Multistep Solar Forecasting for PV Ramp-Rate Control Using Sky Images. IEEE Transactions on Industrial Informatics, 2021, 17, 1397-1406.	11.3	84
7	Deep Learning Enhanced Solar Energy Forecasting with AI-Driven IoT. Wireless Communications and Mobile Computing, 2021, 2021, 1-11.	1.2	23
8	Coordinated Frequency Regulation Using Solar Forecasting Based Virtual Inertia Control for Islanded Microgrids. IEEE Transactions on Sustainable Energy, 2021, 12, 2393-2403.	8.8	13
9	Self-Tuning MPPT Scheme Based on Reinforcement Learning and Beta Parameter in Photovoltaic Power Systems. IEEE Transactions on Power Electronics, 2021, 36, 13826-13838.	7.9	17
10	A Low-cost and Stand-alone Ground Based Sensing Station for Efficient Solar Forecasting in PV Power Systems. , 2021, , .		0
11	Transient DC Bias Elimination of Dual-Active-Bridge DC-DC Converter With Improved Triple-Phase-Shift Control. IEEE Transactions on Industrial Electronics, 2020, 67, 8587-8598.	7.9	67
12	Power ramp-rates of utility-scale PV systems under passing clouds: Module-level emulation with cloud shadow modeling. Applied Energy, 2020, 268, 114980.	10.1	33
13	Forecasting-Based Power Ramp-Rate Control Strategies for Utility-Scale PV Systems. IEEE Transactions on Industrial Electronics, 2019, 66, 1862-1871.	7.9	78
14	MPPT Perturbation Optimization of Photovoltaic Power Systems Based on Solar Irradiance Data Classification. IEEE Transactions on Sustainable Energy, 2019, 10, 514-521.	8.8	59
15	Sensor network based PV power nowcasting with spatio-temporal preselection for grid-friendly control. Applied Energy, 2019, 255, 113760.	10.1	26
16	Short-Term Photovoltaic Power Forecasting Based on Long Short Term Memory Neural Network and Attention Mechanism. IEEE Access, 2019, 7, 78063-78074.	4.2	240
17	A novel global maximum power point tracking algorithm for photovoltaic system with variable perturbation frequency and zero oscillation. Solar Energy, 2019, 181, 345-356.	6.1	31
18	Modeling and Evaluation of Real-Time Energy Management Systems for Microgrids. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
19	Forecasting Based Virtual Inertia Control of PV Systems for Islanded Micro-Grid. , 2019, , .		6
20	Design and Simulation of Peer-to-Peer Energy Trading Framework with Dynamic Electricity Price. , 2019, , .		9
21	A Hybrid LSTM Neural Network for Energy Consumption Forecasting of Individual Households. IEEE Access, 2019, 7, 157633-157642.	4.2	136
22	Cloud motion tracking system using low-cost sky imager for PV power ramp-rate control. , 2018, , .		10
23	A Novel Power Incremental GMPPT Method based on Modified Voltage Lines for Photovoltaic System. , 2018, , .		5
24	Cloud Motion Forecasting and Cloud Base Height Estimation Using Two Low-Cost Sky Cameras. , 2018, , .		9
25	Multi-Step Short-Term Power Consumption Forecasting with a Hybrid Deep Learning Strategy. Energies, 2018, 11, 3089.	3.1	124
26	Designing Localized MPPT for PV Systems Using Fuzzy-Weighted Extreme Learning Machine. Energies, 2018, 11, 2615.	3.1	42
27	Design of a novel MPPT algorithm based on the two stage searching method for PV systems under partial shading. , 2017, , .		19
28	Hierarchical coordinated control for DC microgrid with crowbar and load shedding control. , 2017, , .		3
29	Forecasting based power ramp-rate control for PV systems without energy storage. , 2017, , .		27
30	Power ramp-rate control based on power forecasting for PV grid-tied systems with minimum energy storage. , 2017, , .		16
31	Exploring the effectiveness of student-generated video tutorials in electronic lab-based teaching. , 2017, , .		4
32	An Improved MPPT Method for PV System With Fast-Converging Speed and Zero Oscillation. IEEE Transactions on Industry Applications, 2016, 52, 5051-5064.	4.9	92
33	Photovoltaic Modified \hat{I}^2 -Parameter-based MPPT Method with Fast Tracking. Journal of Power Electronics, 2016, 16, 9-17.	1.5	22
34	DC-link voltage control strategy for reducing capacitance and total harmonic distortion in single-phase grid-connected photovoltaic inverters. IET Power Electronics, 2015, 8, 1386-1393.	2.1	46
35	Perturbation optimization of maximum power point tracking of photovoltaic power systems based on practical solar irradiance data. , 2015, , .		18
36	Closed-Form Solution of Time-Varying Model and Its Applications for Output Current Harmonics in Two-Stage PV Inverter. IEEE Transactions on Sustainable Energy, 2015, 6, 142-150.	8.8	37

#	ARTICLE	IF	CITATIONS
37	Interleaved Flyback Micro-inverter with Primary Side Current Control for PV Application. , 2014, , .		0
38	Control approach to achieve burst mode operation with DC-link voltage protection in single-phase two-stage PV inverters. , 2014, , .		1
39	Modeling and analysis of current harmonic distortion from grid connected PV inverters under different operating conditions. Solar Energy, 2013, 94, 182-194.	6.1	68
40	A study on the harmonic issues at CSIRO Microgrid. , 2011, , .		2
41	Battery-integrated boost converter utilizing distributed MPPT configuration for photovoltaic systems. Solar Energy, 2011, 85, 1992-2002.	6.1	69
42	Analysis of a battery-integrated boost converter for module-based series connected photovoltaic system. , 2010, , .		12
43	Harmonic Distortion Caused by Single-Phase Grid-Connected PV Inverter. , 0, , .		7