

# Peng Wang

## List of Publications by Citations

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116  
papers

4,232  
citations

35  
h-index

62  
g-index

125  
ext. papers

5,920  
ext. citations

6.8  
avg, IF

6.41  
L-index

#	Paper	IF	Citations
116	A Hybrid AC/DC Microgrid and Its Coordination Control. <i>IEEE Transactions on Smart Grid</i> , <b>2011</b> , 2, 278-286	10.7	694
115	Implementation of Hierarchical Control in DC Microgrids. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 4032-4042	8.9	203
114	Harmonizing AC and DC: A Hybrid AC/DC Future Grid Solution. <i>IEEE Power and Energy Magazine</i> , <b>2013</b> , 11, 76-83	2.4	171
113	Distributed Control for Autonomous Operation of a Three-Port AC/DC/DS Hybrid Microgrid. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 1279-1290	8.9	143
112	A Decentralized Dynamic Power Sharing Strategy for Hybrid Energy Storage System in Autonomous DC Microgrid. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 5930-5941	8.9	140
111	Hierarchical Control of Hybrid Energy Storage System in DC Microgrids. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 4915-4924	8.9	133
110	A Novel Composite Nonlinear Controller for Stabilization of Constant Power Load in DC Microgrid. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 752-761	10.7	128
109	Transportable Energy Storage for More Resilient Distribution Systems With Multiple Microgrids. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 3331-3341	10.7	99
108	Distributed Secondary Control for Power Allocation and Voltage Restoration in Islanded DC Microgrids. <i>IEEE Transactions on Sustainable Energy</i> , <b>2018</b> , 9, 1857-1869	8.2	89
107	A Decentralized Power Management Strategy for Hybrid Energy Storage System With Autonomous Bus Voltage Restoration and State-of-Charge Recovery. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 7098-7108	8.9	85
106	. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 30, 1109-1119	7.2	78
105	Short-Term and Medium-Term Reliability Evaluation for Power Systems With High Penetration of Wind Power. <i>IEEE Transactions on Sustainable Energy</i> , <b>2014</b> , 5, 896-906	8.2	78
104	A Uniform Control Strategy for the Interlinking Converter in Hierarchical Controlled Hybrid AC/DC Microgrids. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 6188-6197	8.9	77
103	Wind Power Forecasting Using Neural Network Ensembles With Feature Selection. <i>IEEE Transactions on Sustainable Energy</i> , <b>2015</b> , 6, 1447-1456	8.2	72
102	Improvement of Frequency Regulation in VSG-Based AC Microgrid Via Adaptive Virtual Inertia. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 1589-1602	7.2	72
101	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 1-1	8.9	66
100	. <i>IEEE Transactions on Energy Conversion</i> , <b>2016</b> , 31, 392-400	5.4	63

99	Distributed Control for a Modular Multilevel Converter. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 5578-5591	7.2	61
98	A Decentralized Control Strategy for Economic Operation of Autonomous AC, DC, and Hybrid AC/DC Microgrids. <i>IEEE Transactions on Energy Conversion</i> , <b>2017</b> , 32, 1345-1355	5.4	60
97	. <i>IEEE Transactions on Smart Grid</i> , <b>2016</b> , 7, 273-281	10.7	53
96	SoC-Based Droop Coefficients Stability Region Analysis of the Battery for Stand-Alone Supply Systems With Constant Power Loads. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 7866-7879	7.2	53
95	Feedback Linearization-Based Current Control Strategy for Modular Multilevel Converters. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 161-174	7.2	52
94	Rolling Optimization of Mobile Energy Storage Fleets for Resilient Service Restoration. <i>IEEE Transactions on Smart Grid</i> , <b>2020</b> , 11, 1030-1043	10.7	51
93	Seamless Fault-Tolerant Operation of a Modular Multilevel Converter With Switch Open-Circuit Fault Diagnosis in a Distributed Control Architecture. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 7058-7070	7.2	50
92	. <i>IEEE Transactions on Smart Grid</i> , <b>2015</b> , 1-1	10.7	50
91	A Distributed Power Management Strategy for Multi-Paralleled Bidirectional Interlinking Converters in Hybrid AC/DC Microgrids. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 5696-5711	10.7	49
90	Reduced-Order Transfer Function Model of the Droop-Controlled Inverter via Jordan Continued-Fraction Expansion. <i>IEEE Transactions on Energy Conversion</i> , <b>2020</b> , 35, 1585-1595	5.4	48
89	A Decentralized Control Strategy for Autonomous Transient Power Sharing and State-of-Charge Recovery in Hybrid Energy Storage Systems. <i>IEEE Transactions on Sustainable Energy</i> , <b>2017</b> , 8, 1443-1452	8.2	46
88	An Integral Droop for Transient Power Allocation and Output Impedance Shaping of Hybrid Energy Storage System in DC Microgrid. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 6262-6277	7.2	46
87	Distributed Operation Management of Battery Swapping-Charging Systems. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 5320-5333	10.7	42
86	A Distributed Control Architecture for Global System Economic Operation in Autonomous Hybrid AC/DC Microgrids. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 2603-2617	10.7	42
85	Implementation of Bidirectional Resonant DC Transformer in Hybrid AC/DC Micro-Grid. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 1532-1542	10.7	41
84	Time-Delay Stability Analysis for Hybrid Energy Storage System With Hierarchical Control in DC Microgrids. <i>IEEE Transactions on Smart Grid</i> , <b>2018</b> , 9, 6633-6645	10.7	40
83	One-Cycle-Controlled Three-Phase PWM Rectifiers With Improved Regulation Under Unbalanced and Distorted Input-Voltage Conditions. <i>IEEE Transactions on Power Electronics</i> , <b>2010</b> , 25, 2786-2796	7.2	39
82	Unreliability cost assessment of an electric power system using reliability network equivalent approaches. <i>IEEE Transactions on Power Systems</i> , <b>2002</b> , 17, 549-556	7	37

81	Reduced-Order Aggregate Model for Large-Scale Converters With Inhomogeneous Initial Conditions in DC Microgrids. <i>IEEE Transactions on Energy Conversion</i> , <b>2021</b> , 36, 2473-2484	5.4	35
80	Intelligent Power Sharing of DC Isolated Microgrid Based on Fuzzy Sliding Mode Droop Control. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 2396-2406	10.7	33
79	A Semi-Consensus Strategy Toward Multi-Functional Hybrid Energy Storage System in DC Microgrids. <i>IEEE Transactions on Energy Conversion</i> , <b>2020</b> , 35, 336-346	5.4	33
78	Two-Level Distributed Volt/Var Control Using Aggregated PV Inverters in Distribution Networks. <i>IEEE Transactions on Power Delivery</i> , <b>2020</b> , 35, 1844-1855	4.3	30
77	A hybrid AC/DC micro-grid architecture, operation and control <b>2011</b> ,		28
76	Modular Multilevel Converter Synthetic Inertia-Based Frequency Support for Medium-Voltage Microgrids. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 8992-9002	8.9	27
75	A Multi-State Model for Transmission System Resilience Enhancement Against Short-Circuit Faults Caused by Extreme Weather Events. <i>IEEE Transactions on Power Delivery</i> , <b>2021</b> , 36, 2374-2385	4.3	27
74	Allocation of Centrally Switched Fault Current Limiters Enabled by 5G in Transmission System. <i>IEEE Transactions on Power Delivery</i> , <b>2021</b> , 36, 3231-3241	4.3	27
73	Reliability Evaluation of Power Systems Considering Restructuring and Renewable Generators. <i>IEEE Transactions on Power Systems</i> , <b>2012</b> , 27, 243-250	7	26
72	Large-Signal Stability of Interleave Boost Converter System With Constant Power Load Using Sliding-Mode Control. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 9450-9459	8.9	26
71	. <i>IEEE Transactions on Energy Conversion</i> , <b>2015</b> , 30, 1338-1347	5.4	25
70	Power Decoupling Control for Modular Multilevel Converter. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 9296-9309	7.2	25
69	A Decentralized Composite Controller for Unified Voltage Control With Global System Large-Signal Stability in DC Microgrids. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 5075-5091	10.7	25
68	Mitigation of DC and Harmonic Currents Generated by Voltage Measurement Errors and Grid Voltage Distortions in Transformerless Grid-Connected Inverters. <i>IEEE Transactions on Energy Conversion</i> , <b>2018</b> , 33, 801-813	5.4	25
67	. <i>IEEE Transactions on Power Systems</i> , <b>2019</b> , 34, 1966-1979	7	24
66	A Novel Assorted Nonlinear Stabilizer for DCDC Multilevel Boost Converter With Constant Power Load in DC Microgrid. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 11181-11192	7.2	23
65	Coordinated secondary control for autonomous hybrid three-port AC/DC/DS microgrid. <i>CSEE Journal of Power and Energy Systems</i> , <b>2018</b> , 4, 1-10	2.3	23
64	A Distributed and Robust Energy Management System for Networked Hybrid AC/DC Microgrids. <i>IEEE Transactions on Smart Grid</i> , <b>2020</b> , 11, 3496-3508	10.7	23

63	The SVC Additional Adaptive Voltage Controller of Isolated Wind-Diesel Power System Based on Double Sliding-Mode Optimal Strategy. <i>IEEE Transactions on Sustainable Energy</i> , <b>2018</b> , 9, 24-34	8.2	20
62	A Module-Based Approach for Stability Analysis of Complex More-Electric Aircraft Power System. <i>IEEE Transactions on Transportation Electrification</i> , <b>2017</b> , 3, 901-919	7.6	19
61	Nodal Reliability Evaluation of Interdependent Gas and Power Systems Considering Cascading Effects. <i>IEEE Transactions on Smart Grid</i> , <b>2020</b> , 11, 4090-4104	10.7	18
60	. <i>IEEE Transactions on Industrial Informatics</i> , <b>2020</b> , 16, 1483-1494	11.9	18
59	Pad-Based Stability Analysis for a Modular Multilevel Converter Considering the Time Delay in the Digital Control System. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 5242-5253	8.9	18
58	An Improved Control Strategy of Three-Phase PWM Rectifiers Under Input Voltage Distortions and DC-Offset Measurement Errors. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2017</b> , 5, 1164-1176	5.6	17
57	Distributed Supervisory Secondary Control for a DC Microgrid. <i>IEEE Transactions on Energy Conversion</i> , <b>2020</b> , 35, 1736-1746	5.4	15
56	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 4600-4612	8.9	15
55	. <i>IEEE Transactions on Power Systems</i> , <b>2019</b> , 34, 3264-3273	7	14
54	Feasible Power-Flow Solution Analysis of DC Microgrids Under Droop Control. <i>IEEE Transactions on Smart Grid</i> , <b>2020</b> , 11, 2771-2781	10.7	14
53	A Fast Contingency Screening Technique for Generation System Reliability Evaluation. <i>IEEE Transactions on Power Systems</i> , <b>2013</b> , 28, 4127-4133	7	14
52	Decentralized Economic Operation Control for Hybrid AC/DC Microgrid. <i>IEEE Transactions on Sustainable Energy</i> , <b>2020</b> , 11, 1898-1910	8.2	14
51	Comprehensive Coordinated Frequency Control of Symmetrical CLLC-DC Transformer in Hybrid AC/DC Microgrids. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 10374-10384	7.2	13
50	Control Strategy to Compensate for Current and Voltage Measurement Errors in Three-Phase PWM Rectifiers. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 2879-2889	4.3	12
49	Stability Analysis of PV Generators With Consideration of P&O-Based Power Control. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 6483-6492	8.9	12
48	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 1388-1400	8.9	12
47	Stochastic Scheduling of Mobile Energy Storage in Coupled Distribution and Transportation Networks for Conversion Capacity Enhancement. <i>IEEE Transactions on Smart Grid</i> , <b>2021</b> , 12, 117-130	10.7	12
46	Reliability evaluation of restructured power systems using a novel optimal power-flow-based approach. <i>IET Generation, Transmission and Distribution</i> , <b>2013</b> , 7, 192-199	2.5	11

45	Convergence Analysis of Newton-Raphson Method in Feasible Power-Flow for DC Network. <i>IEEE Transactions on Power Systems</i> , <b>2020</b> , 35, 4100-4103	7	11
44	Nodal Reliability Evaluation for a VSC-MTDC-Based Hybrid AC/DC Power System. <i>IEEE Transactions on Power Systems</i> , <b>2020</b> , 35, 2300-2312	7	10
43	Spatial and Temporal Reliability and Damage Assessment of Transmission Networks Under Hurricanes. <i>IEEE Transactions on Smart Grid</i> , <b>2020</b> , 11, 1044-1054	10.7	10
42	Hierarchical control of active hybrid energy storage system (HESS) in DC microgrids <b>2014</b> ,		9
41	Deception Attack Detection of Isolated DC Microgrids Under Consensus- Based Distributed Voltage Control Architecture. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , <b>2021</b> , 11, 155-167	5.27	9
40	A Bidirectional DCDC Converter With High Voltage Conversion Ratio and Zero Ripple Current for Battery Energy Storage System. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 8012-8027	7.2	9
39	Coordination secondary control for autonomous hybrid AC/DC microgrids with global power sharing operation <b>2016</b> ,		9
38	Line Inductance Stability Operation Domain Assessment for Weak Grids With Multiple Constant Power Loads. <i>IEEE Transactions on Energy Conversion</i> , <b>2021</b> , 36, 1045-1055	5.4	9
37	A Distributed Cooperative Control Algorithm for Optimal Power Flow and Voltage Regulation in DC Power System. <i>IEEE Transactions on Power Delivery</i> , <b>2020</b> , 35, 892-903	4.3	8
36	. <i>IEEE Transactions on Sustainable Energy</i> , <b>2020</b> , 11, 2345-2355	8.2	8
35	Secondary control for DC microgrids: A review <b>2016</b> ,		8
34	Resilience Assessment of Interdependent Energy Systems Under Hurricanes. <i>IEEE Transactions on Power Systems</i> , <b>2020</b> , 35, 3682-3694	7	7
33	Stability-Oriented Droop Coefficients Region Identification for Inverters Within Weak Grid: An Impedance-Based Approach. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 51, 2258-2268	7.3	7
32	Toward Large-Signal Stabilization of Floating Dual Boost Converter-Powered DC Microgrids Feeding Constant Power Loads. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 9, 580-589	5.6	7
31	Dual-Predictive Control with Adaptive Error Correction Strategy for AC Microgrids. <i>IEEE Transactions on Power Delivery</i> , <b>2021</b> , 1-1	4.3	7
30	Vehicle-Vehicle Energy Interaction Converter of Electric Vehicles: A Disturbance Observer Based Sliding Mode Control Algorithm. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 1-1	6.8	7
29	Risk-based many-objective configuration of power system fault current limiters utilising NSGA-III. <i>IET Generation, Transmission and Distribution</i> , <b>2020</b> , 14, 5646-5654	2.5	6
28	New Analysis Framework for Transient Stability Evaluation of DC Microgrids. <i>IEEE Transactions on Smart Grid</i> , <b>2020</b> , 11, 2794-2804	10.7	6

27	Resilient Unit Commitment for Day-Ahead Market Considering Probabilistic Impacts of Hurricanes. <i>IEEE Transactions on Power Systems</i> , <b>2021</b> , 36, 1082-1094	7	6
26	Distributed Uniform Control for Parallel Bidirectional Interlinking Converters for Resilient Operation of Hybrid AC/DC Microgrid. <i>IEEE Transactions on Sustainable Energy</i> , <b>2021</b> , 1-1	8.2	6
25	Steady-state Stability Assessment of AC-busbar Plug-in Electric Vehicle Charging Station with Photovoltaic. <i>Journal of Modern Power Systems and Clean Energy</i> , <b>2020</b> , 8, 884-894	4	5
24	Calculation of DC Bias Reactive Power Loss of Converter Transformer via Finite Element Analysis. <i>IEEE Transactions on Power Delivery</i> , <b>2021</b> , 36, 751-759	4.3	5
23	Multifrequency Modulation to Achieve an Individual and Continuous Power Distribution for Simultaneous MR-WPT System With an Inverter. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 12440-12455	7.2	5
22	. <i>IEEE Transactions on Power Delivery</i> , <b>2021</b> , 1-1	4.3	5
21	Fixed and Smooth-Switch-Sequence Modulation for Voltage Balancing Based on Single-Phase Three-Level Neutral-Point-Clamped Cascaded Rectifier. <i>IEEE Transactions on Industry Applications</i> , <b>2020</b> , 1-1	4.3	4
20	Distributed Dynamic Event-Triggered Control for Voltage Restoration and Current Sharing in DC Microgrids. <i>IEEE Transactions on Sustainable Energy</i> , <b>2022</b> , 13, 619-628	8.2	4
19	A Modulation Reference Compensation Method to Realize Fully Decoupled Power Control for Modular Multilevel Converters. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 7230-7241	7.2	3
18	Coordinated control of series compensation link and bus interface converter in the ACDC hybrid microgrid. <i>Journal of Power Electronics</i> , <b>2020</b> , 20, 590-600	0.9	2
17	Feasible Power-Flow Solution Analysis of DC Microgrid Considering Distributed Generations Under MPPT Control. <i>IEEE Transactions on Smart Grid</i> , <b>2022</b> , 13, 139-148	10.7	2
16	Metrics and quantification of power-line and pipeline resiliency in integrated gas and power systems. <i>IET Generation, Transmission and Distribution</i> , <b>2021</b> , 15, 3001	2.5	2
15	A Compact Interlinking Converter Modular for Hybrid AC/DC/DS Microgrids with a Decentralized Power Management Strategy <b>2019</b> ,		2
14	A Decentralized Automatic Load Power Allocation Strategy for Hybrid Energy Storage System. <i>IEEE Transactions on Energy Conversion</i> , <b>2021</b> , 36, 2227-2238	5.4	2
13	An Autonomous Control Scheme of Global Smooth Transitions for Bidirectional DC-DC Converter in DC Microgrid. <i>IEEE Transactions on Energy Conversion</i> , <b>2021</b> , 36, 950-960	5.4	2
12	Resilient Operation of an MMC With Communication Interruption in a Distributed Control Architecture. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 12057-12069	7.2	2
11	A Modulized Three-Port Interlinking Converter for Hybrid AC/DC/DS Microgrids Featured With a Decentralized Power Management Strategy. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 12430-12440	8.9	2
10	A distributed control architecture for hybrid AC/DC microgrid economic operation <b>2018</b> ,		1

9	Energy-Management Strategy of Battery Energy Storage Systems in DC Microgrids: A Distributed Dynamic Event-Triggered $\mathcal{H}_\infty$ Consensus Control. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 1-10	7.3	1
8	Stability-Oriented Minimum Switching/Sampling Frequency for Cyber-Physical Systems: Grid-Connected Inverters Under Weak Grid. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2021</b> , 1-10	3.9	1
7	Short-term reliability evaluation of integrated electricity and gas systems considering dynamics of gas flow. <i>IET Generation, Transmission and Distribution</i> , <b>2021</b> , 15, 2857-2871	2.5	1
6	Transportable Energy Storage for More Resilient Distribution Systems with Multiple Microgrids <b>2019</b> ,		1
5	Unified Active Damping Control Algorithm of Inverter for LCL Resonance and Mechanical Torsional Vibration Suppression. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	1
4	Modular Circulating Current and Second Harmonic Current Suppression Strategy by Virtual Impedance for DC Solid-State Transformer. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 11921-11933 <sup>2</sup>	7.2	1
3	Proactive Resilient Day-ahead Unit Commitment with Cloud Computing Data Centers. <i>IEEE Transactions on Industry Applications</i> , <b>2022</b> , 1-1	4.3	0
2	Analysis of Persistent Oscillation Mechanism and Low Frequency Coupling Characteristics of Power System From the Perspective of Grid-Connected Converter. <i>IEEE Access</i> , <b>2021</b> , 9, 167545-167555	3.5	0
1	Generalized Extended State Observer-Based Distributed Attack-Resilient Control for DC Microgrids. <i>IEEE Transactions on Sustainable Energy</i> , <b>2022</b> , 1-1	8.2	0