Yicheng Liao

List of Publications by Year
in descending order

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27	1,077	623734	1058476
papers	citations	14 h-index	14 g-index

27	27	27	681
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Grid-Synchronization Stability of Converter-Based Resourcesâ€"An Overview. IEEE Open Journal of Industry Applications, 2020, 1, 115-134.	6.5	329
2	Low-Frequency Stability Analysis of Single-Phase System With dq-Frame Impedance Approachâ€"Part I: Impedance Modeling and Verification. IEEE Transactions on Industry Applications, 2018, 54, 4999-5011.	4.9	96
3	Impedance-Based Stability Analysis for Interconnected Converter Systems With Open-Loop RHP Poles. IEEE Transactions on Power Electronics, 2020, 35, 4388-4397.	7.9	82
4	Vehicle-Grid System Modeling and Stability Analysis With Forbidden Region-Based Criterion. IEEE Transactions on Power Electronics, 2017, 32, 3499-3512.	7.9	70
5	Stability Research of High-Speed Railway EMUs and Traction Network Cascade System Considering Impedance Matching. IEEE Transactions on Industry Applications, 2016, 52, 4315-4326.	4.9	68
6	Low-Frequency Stability Analysis of Single-Phase System With dq-Frame Impedance Approachâ€"PartÂII: Stability and Frequency Analysis. IEEE Transactions on Industry Applications, 2018, 54, 5012-5024.	4.9	60
7	Suppression of Low-Frequency Oscillation in Traction Network of High-Speed Railway Based on Auto-Disturbance Rejection Control. IEEE Transactions on Transportation Electrification, 2016, 2, 244-255.	7.8	59
8	Passivity-Based Analysis and Design of Linear Voltage Controllers For Voltage-Source Converters. IEEE Open Journal of the Industrial Electronics Society, 2020, 1, 114-126.	6.8	47
9	Stationary-Frame Complex-Valued Frequency-Domain Modeling of Three-Phase Power Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1922-1933.	5.4	39
10	A Model-Based Predictive Direct Power Control for Traction Line-Side Converter in High-Speed Railway. IEEE Transactions on Industry Applications, 2017, 53, 4934-4943.	4.9	34
11	Sub-Synchronous Control Interaction in Grid-Forming VSCs with Droop Control. , 2019, , .		34
12	Vehicle-Grid System Stability Analysis Based on Norm Criterion and Suppression of Low-Frequency Oscillation With MMC-STATCOM. IEEE Transactions on Transportation Electrification, 2018, 4, 757-766.	7.8	32
13	Complex-Valued Multifrequency Admittance Model of Three-Phase VSCs in Unbalanced Grids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1934-1946.	5.4	28
14	Small-Signal Modeling of AC Power Electronic Systems: Critical Review and Unified Modeling. IEEE Open Journal of Power Electronics, 2021, 2, 424-439.	5.7	23
15	General Rules of Using Bode Plots for Impedance-Based Stability Analysis. , 2018, , .		17
16	Evaluation of Voltage Regulators for Dual-Loop Control of Voltage-Controlled VSCs. , 2019, , .		16
17	Frequency-Domain Participation Analysis for Electronic Power Systems. IEEE Transactions on Power Electronics, 2022, 37, 2531-2537.	7.9	16
18	A dq-Frame impedance measurement method based on Hilbert transform for single-phase vehicle-grid system. , 2017, , .		6

#	Article	IF	Citations
19	Harmonic Transfer-Function Model of Three-Phase Synchronous Reference Frame PLL under Unbalanced Grid Conditions. , 2019, , .		5
20	Passivity Analysis and Enhancement of Voltage Control for Voltage-Source Converters. , 2019, , .		5
21	Near-Synchornous Resonance Interaction of Paralleled Grid-forming Converters in Islanded Operation. , 2019, , .		4
22	A model-based predictive direct power control for traction line-side converter in high-speed railway. , 2016, , .		3
23	Vehicle-grid system stability analysis considering impedance specification based on norm criterion. , 2016, , .		2
24	The stability research of high-speed railway EMUs and traction network cascade system. , 2015, , .		1
25	HSS Modeling and Stability Analysis of Single-Phase PFC Converters. , 2022, , .		1
26	Stability and robustness improvement of power converters. , 2021, , 303-337.		0
27	Vector-Norm Based Truncation of Harmonic Transfer Functions in Black-Box Electronic Power Systems. IEEE Open Journal of the Industrial Electronics Society, 2022, 3, 163-173.	6.8	0