Hao Yuan

List of Publications by Year
in descending order

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35	2,314	236833 25	395590 33
papers	citations	h-index	g-index

35	35	35	1576
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modeling of Grid-Connected VSCs for Power System Small-Signal Stability Analysis in DC-Link Voltage Control Timescale. IEEE Transactions on Power Systems, 2017, 32, 3981-3991.	4.6	231
2	Modeling of Grid-Connected DFIG-Based Wind Turbines for DC-Link Voltage Stability Analysis. IEEE Transactions on Sustainable Energy, 2015, 6, 1325-1336.	5.9	193
3	On Inertial Dynamics of Virtual-Synchronous-Controlled DFIG-Based Wind Turbines. IEEE Transactions on Energy Conversion, 2015, 30, 1691-1702.	3.7	182
4	Virtual Synchronous Control for Grid-Connected DFIG-Based Wind Turbines. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 932-944.	3.7	176
5	Inertia Provision and Estimation of PLL-Based DFIG Wind Turbines. IEEE Transactions on Power Systems, 2017, 32, 510-521.	4.6	134
6	Small Signal Dynamics of DFIG-Based Wind Turbines During Riding Through Symmetrical Faults in Weak AC Grid. IEEE Transactions on Energy Conversion, 2017, 32, 720-730.	3.7	115
7	Modeling of Type 3 Wind Turbines With df/dt Inertia Control for System Frequency Response Study. IEEE Transactions on Power Systems, 2017, 32, 2799-2809.	4.6	114
8	Improved Nearest-Level Modulation for a Modular Multilevel Converter With a Lower Submodule Number. IEEE Transactions on Power Electronics, 2016, 31, 5369-5377.	5.4	110
9	Small Signal Instability of PLL-Synchronized Type-4 Wind Turbines Connected to High-Impedance AC Grid During LVRT. IEEE Transactions on Energy Conversion, 2016, 31, 1676-1687.	3.7	109
10	Modeling of DFIG-Based Wind Turbine for Power System Transient Response Analysis in Rotor Speed Control Timescale. IEEE Transactions on Power Systems, 2018, 33, 6795-6805.	4.6	102
11	Analysis and Enhanced Control of Hybrid-MMC-Based HVDC Systems During Asymmetrical DC Voltage Faults. IEEE Transactions on Power Delivery, 2017, 32, 1394-1403.	2.9	93
12	Feedforward Current References Control for DFIG-Based Wind Turbine to Improve Transient Control Performance During Grid Faults. IEEE Transactions on Energy Conversion, 2018, 33, 670-681.	3.7	80
13	Impact of Inertia Control of DFIG-Based WT on Electromechanical Oscillation Damping of SG. IEEE Transactions on Power Systems, 2018, 33, 3450-3459.	4.6	67
14	Modeling of DFIG-Based WTs for Small-Signal Stability Analysis in DVC Timescale in Power Electronized Power Systems. IEEE Transactions on Energy Conversion, 2017, 32, 1151-1165.	3.7	66
15	Fault Current Analysis of Type-3 WTs Considering Sequential Switching of Internal Control and Protection Circuits in Multi Time Scales During LVRT. IEEE Transactions on Power Systems, 2018, 33, 6894-6903.	4.6	64
16	Analysis of Modal Resonance Between PLL and DC-Link Voltage Control in Weak-Grid Tied VSCs. IEEE Transactions on Power Systems, 2019, 34, 1127-1138.	4.6	64
17	Inertia and Primary Frequency Provisions of PLL-Synchronized VSC HVDC When Attached to Islanded AC System. IEEE Transactions on Power Systems, 2018, 33, 4179-4188.	4.6	54
18	Modeling and Stability Analysis of VSC Internal Voltage in DC-Link Voltage Control Timescale. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 16-28.	3.7	54

#	Article	IF	Citations
19	Modeling of DFIG Wind Turbine Based on Internal Voltage Motion Equation in Power Systems Phase-Amplitude Dynamics Analysis. IEEE Transactions on Power Systems, 2018, 33, 1484-1495.	4.6	45
20	Impacts of PLL on the DFIG-based WTG's electromechanical response under transient conditions: analysis and modeling. CSEE Journal of Power and Energy Systems, 2016, 2, 30-39.	1.7	36
21	Motion Equation Modeling of LCC-HVDC Stations for Analyzing DC and AC Network Interactions. IEEE Transactions on Power Delivery, 2020, 35, 1563-1574.	2.9	34
22	Mechanism Analysis of the Required Rotor Current and Voltage for DFIG-Based WTs to Ride-Through Severe Symmetrical Grid Faults. IEEE Transactions on Power Electronics, 2018, 33, 7300-7304.	5.4	32
23	Fundamental-Frequency Reactive Circulating Current Injection for Capacitor Voltage Balancing in Hybrid-MMC HVDC Systems During Riding Through PTG Faults. IEEE Transactions on Power Delivery, 2018, 33, 1348-1357.	2.9	30
24	Inertia Characteristic of DFIG-Based WT Under Transient Control and its Impact on the First-Swing Stability of SGs. IEEE Transactions on Energy Conversion, 2017, 32, 1502-1511.	3.7	29
25	Modeling and Analysis of Modular Multilevel Converter in DC Voltage Control Timescale. IEEE Transactions on Industrial Electronics, 2019, 66, 6449-6459.	5.2	28
26	Impact of Inertia Control of DFIG-Based WT on Torsional Vibration in Drivetrain. IEEE Transactions on Sustainable Energy, 2020, 11, 2525-2534.	5.9	22
27	Mechanism Analysis of Subsynchronous Torsional Interaction With PMSG-Based WTs and LCC-HVDC. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 1708-1724.	3.7	13
28	Nonlinear analysis of a simple amplitudeâ€“phase motion equation for power-electronics-based power system. Nonlinear Dynamics, 2019, 95, 1965-1976.	2.7	10
29	Comparative study on primary frequency control schemes for variableâ€speed wind turbines. Journal of Engineering, 2017, 2017, 1332-1337.	0.6	7
30	Comparative analysis of stability limitations in weak gridâ€connected synchronous generator, VSC, and DFIG systems considering the power flow control dynamics. IET Renewable Power Generation, 2019, 13, 94-102.	1.7	7
31	Modal analysis of a gridâ€connected DFIGâ€based WT considering multiâ€timescale control interactions. Journal of Engineering, 2017, 2017, 1118-1123.	0.6	5
32	Analytic Quantification of Interactions in MTDC Systems Based on Self-/En-Stabilizing Coefficients in DC Voltage Control Timescale. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 2980-2991.	3.7	5
33	Loss reduction analysis and control of ACâ€voltageâ€boosted FBSM MMC by injecting second harmonic circulating current. Journal of Engineering, 2019, 2019, 2328-2331.	0.6	3
34	Interaction Analysis of Multi-terminal HVDC systems in DC Voltage Control Timescale. , 2019, , .		0
35	Effect Comparison of Rectified and Inverter-fed Power Control Converters on Sub-synchronous Torsional Stability in Practical Â±500kV Lu-Gao-Zhao Three-Terminal DC Project. , 2021, , .		0