

Muyang Liu

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling of Smart Transformers for Power System Transient Stability Analysis. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 3759-3770.	5.4	2
2	Impact of PLL Frequency Limiter on Synchronization Stability of Grid Feeding Converter. IEEE Transactions on Power Systems, 2022, 37, 2487-2490.	6.5	21
3	Power system modelling as stochastic functional hybrid differential-algebraic equations. IET Smart Grid, 2022, 5, 309-331.	2.2	1
4	On-line inertia estimation of Virtual Power Plants. Electric Power Systems Research, 2022, 212, 108336.	3.6	12
5	Delay margin comparisons for power systems with constant and time-varying delays. Electric Power Systems Research, 2021, 190, 106627.	3.6	11
6	Impact of smart transformer voltage and frequency support in a high renewable penetration system. Electric Power Systems Research, 2021, 190, 106836.	3.6	21
7	Coordinated Control of Virtual Power Plants to Improve Power System Short-Term Dynamics. Energies, 2021, 14, 1182.	3.1	20
8	Modeling and Simulation of Variable Limits on Conditional Anti-Windup PI Controllers for VSC-Based Devices. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 3079-3088.	5.4	10
9	Statistics of limit root bundles relevant for exact matter spectra of F-theory MSSMs. Physical Review D, 2021, 104, .	4.7	4
10	Aggregated Model of Virtual Power Plants for Transient Frequency and Voltage Stability Analysis. IEEE Transactions on Power Systems, 2021, 36, 4366-4375.	6.5	33
11	Co-ordinated grid forming control of AC-side-connected energy storage systems for converter-interfaced generation. International Journal of Electrical Power and Energy Systems, 2021, 133, 107201.	5.5	17
12	On-Line Inertia Estimation for Synchronous and Non-Synchronous Devices. IEEE Transactions on Power Systems, 2021, 36, 2693-2701.	6.5	64
13	On the Synchronization Stability of Converters connected to Weak Resistive Grids. , 2021, , .		1
14	Impact of Virtual Power Plants on Power System Short-Term Transient Response. Electric Power Systems Research, 2020, 189, 106609.	3.6	24
15	Impact of Current Transients on the Synchronization Stability Assessment of Grid-Feeding Converters. IEEE Transactions on Power Systems, 2020, 35, 4131-4134.	6.5	35
16	Comparison of Numerical Methods and Open-Source Libraries for Eigenvalue Analysis of Large-Scale Power Systems. Applied Sciences (Switzerland), 2020, 10, 7592.	2.5	6
17	Model-Independent Derivative Control Delay Compensation Methods for Power Systems. Energies, 2020, 13, 342.	3.1	13
18	100% Converter-Interfaced generation using virtual synchronous generator control: A case study based on the Irish system. Electric Power Systems Research, 2020, 187, 106475.	3.6	26

#	ARTICLE	IF	CITATIONS
19	Modeling of Protective Relays for Transient Stability Analysis. , 2020, , .		2
20	On the Impact of the Dead-Band of Power System Stabilizers and Frequency Regulation on Power System Stability. IEEE Transactions on Power Systems, 2019, 34, 3977-3979.	6.5	21
21	A Co-Simulation Framework for Power Systems and Communication Networks. , 2019, , .		6
22	A Model-Independent Delay Compensation Method for Power Systems. , 2019, , .		1
23	Impact of Realistic Bus Frequency Measurements on Wide-Area Power System Stabilizers. , 2019, , .		4
24	On the Stability Analysis of Systems of Neutral Delay Differential Equations. Circuits, Systems, and Signal Processing, 2019, 38, 1639-1653.	2.0	44
25	Stability Analysis of Power Systems With Inclusion of Realistic-Modeling WAMS Delays. IEEE Transactions on Power Systems, 2019, 34, 627-636.	6.5	80
26	PMU-based Estimation of the Frequency of the Center of Inertia and Generator Rotor Speeds. , 2019, , .		3
27	Replacement of Synchronous Generator by Virtual Synchronous Generator in the Conventional Power System. , 2019, , .		13
28	Frequency Control Through Voltage Regulation of Power System Using SVC Devices. , 2019, , .		5
29	Voltage Frequency Control Using SVC Devices Coupled With Voltage Dependent Loads. IEEE Transactions on Power Systems, 2019, 34, 1589-1597.	6.5	31
30	Stability Analysis of Wide Area Damping Controllers with Multiple Time Delays. IFAC-PapersOnLine, 2018, 51, 504-509.	0.9	4
31	Small-signal Stability Analysis of Power Systems with Inclusion of Periodic Time-Varying Delays. , 2018, , .		7
32	Modelling, Simulation and Hardware-in-the-Loop Validation of Virtual Synchronous Generator Control in Low Inertia Power System. , 2018, , .		12
33	Small-signal stability analysis of neutral delay differential equations. , 2017, , .		5
34	Stability-constrained unit commitment with water network loads. , 2016, , .		3