Issarachai Ngamroo

List of Publications by Year
in descending order

58 papers	817 citations	623734 14 h-index	526287 27 g-index
58 all docs	58 docs citations	58 times ranked	791 citing authors

#	Article	IF	Citations
1	Coordinated Robust Control of DFIG Wind Turbine and PSS for Stabilization of Power Oscillations Considering System Uncertainties. IEEE Transactions on Sustainable Energy, 2014, 5, 823-833.	8.8	113
2	Hierarchical Co-Ordinated Wide Area and Local Controls of DFIG Wind Turbine and PSS for Robust Power Oscillation Damping. IEEE Transactions on Sustainable Energy, 2016, 7, 943-955.	8.8	94
3	Robust controller design of heat pump and plug-in hybrid electric vehicle for frequency control in a smart microgrid based on specified-structure mixed H2/Hâˆž control technique. Applied Energy, 2011, 88, 3860-3868.	10.1	69
4	Improvement of Power System Transient Stability by PV Farm With Fuzzy Gain Scheduling of PID Controller. IEEE Systems Journal, 2017, 11, 1684-1691.	4.6	61
5	Improving Low-Voltage Ride-Through Performance and Alleviating Power Fluctuation of DFIG Wind Turbine in DC Microgrid by Optimal SMES With Fault Current Limiting Function. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.7	52
6	Optimization of SMES-FCL for Augmenting FRT Performance and Smoothing Output Power of Grid-Connected DFIG Wind Turbine. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	33
7	Coordinated Control of Optimized SFCL and SMES for Improvement of Power System Transient Stability. IEEE Transactions on Applied Superconductivity, 2012, 22, 5600805-5600805.	1.7	32
8	Alleviation of Power Fluctuation in Interconnected Power Systems With Wind Farm by SMES With Optimal Coil Size. IEEE Transactions on Applied Superconductivity, 2012, 22, 5701504-5701504.	1.7	29
9	Design of Optimal SMES Controller Considering SOC and Robustness for Microgrid Stabilization. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	24
10	Twoâ€level coordinated controllers for robust interâ€area oscillation damping considering impact of local latency. IET Generation, Transmission and Distribution, 2017, 11, 4520-4530.	2.5	24
11	Optimized SFCL and SMES Units for Multimachine Transient Stabilization Based on Kinetic Energy Control. IEEE Transactions on Applied Superconductivity, 2013, 23, 5000309-5000309.	1.7	23
12	Optimal Superconducting Coil Integrated Into PV Generators for Smoothing Power and Regulating Voltage in Distribution System With PHEVs. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	21
13	Inter-Area Oscillation Damping Control Design Considering Impact of Variable Latencies. IEEE Transactions on Power Systems, 2019, 34, 481-493.	6.5	21
14	Adaptive Signal Selection of Wide-Area Damping Controllers Under Various Operating Conditions. IEEE Transactions on Industrial Informatics, 2018, 14, 639-651.	11.3	19
15	An Optimization of Superconducting Coil Installed in an HVDC-Wind Farm for Alleviating Power Fluctuation and Limiting Fault Current. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	15
16	Smallâ€signal analysis of multiple virtual synchronous machines to enhance frequency stability of gridâ€connected high renewables. IET Generation, Transmission and Distribution, 2021, 15, 1273-1289.	2.5	14
17	Simultaneous Optimization of SMES Coil Size and Control Parameters for Robust Power System Stabilization. IEEE Transactions on Applied Superconductivity, 2011, 21, 1358-1361.	1.7	12
18	EVs Charging Power Control Participating in Supplementary Frequency Stabilization for Microgrids: Uncertainty and Global Sensitivity Analysis. IEEE Access, 2021, 9, 111005-111019.	4.2	12

#	Article	IF	Citations
19	Novel Control Design for Simultaneous Damping of Inter-Area and Forced Oscillation. IEEE Transactions on Power Systems, 2021, 36, 451-463.	6.5	11
20	Two-Stage Optimization Based On SOC Control of SMES Installed in Hybrid Wind/PV System for Stabilizing Voltage and Power Fluctuations. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	11
21	Weighted least absolute value power system state estimation using rectangular coordinates and equivalent measurement functions. IEEJ Transactions on Electrical and Electronic Engineering, 2011, 6, 534-539.	1.4	10
22	Adaptive Power System Stabilizer Design Using Optimal Support Vector Machines Based on Harmony Search Algorithm. Electric Power Components and Systems, 2014, 42, 439-452.	1.8	9
23	WLAV state estimation for power system containing multitype FACTS devices. IEEJ Transactions on Electrical and Electronic Engineering, 2013, 8, 207-214.	1.4	8
24	Wide area robust centralized power oscillation dampers design for DFIG-based wind turbines. , 2014, , .		8
25	Enhancement of LVRT performance and alleviation of power fluctuation of DFIG wind turbine in DC microgrid by SMES. , 2013, , .		7
26	GPS synchronized phasor measurement units-based wide area robust PSS parameters optimization. European Transactions on Electrical Power, 2011, 21, 345-362.	1.0	6
27	Optimal fuzzy logic-based adaptive controller equipped with DFIG wind turbine for frequency control in stand alone power system. , 2013, , .		6
28	Forced Oscillation Detection Amid Communication Uncertainties. IEEE Systems Journal, 2021, 15, 4644-4655.	4.6	5
29	Inertia Assessment From Transient Measurements: Recent Perspective From Japanese WAMS. IEEE Access, 2022, 10, 66332-66344.	4.2	5
30	Improving FRT capability and alleviating output power of DFIG wind turbine by SMES-FCL. , 2015, , .		4
31	Integrated superconducting coil into PV generator for power smoothing and voltage regulation. , 2015, , .		4
32	Two-level robust coordinated stabilizing control of PSS and DFIG wind turbine for enhancing grid resiliency. , 2016, , .		4
33	Power swing and voltage stabilization by PV generator with active and reactive power controls. , 2017, , .		4
34	Wideâ€area damping controllers of wind and solar power using probabilistic signal selection. IET Renewable Power Generation, 2019, 13, 1351-1359.	3.1	4
35	Incorporating ObjectStab library and fuzzy logic toolbox for design of power system damping controller. Computer Applications in Engineering Education, 2008, 16, 243-255.	3.4	3
36	Wideâ€Area Robust SMES Controller Design using Synchronized PMUs for Stabilization of Interconnected Power System with Wind Farms. IEEJ Transactions on Electrical and Electronic Engineering, 2010, 5, 428-438.	1.4	3

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37	Optimal least squares support vector machines for SMES controller design using wide area phasor measurements. European Transactions on Electrical Power, 2012, 22, 571-588.	1.0	3
38	Model predictive control-based wind turbine blade pitch angle control for alleviation of frequency fluctuation in a smart grid. , 2014, , .		3
39	Robust decentralized power oscillation dampers design of DFIG wind turbines for stabilization of inter-area oscillation. , 2014, , .		3
40	Alleviation of power fluctuation in a microgrid by electrolyzer based on optimal fuzzy gain scheduling PID control. IEEJ Transactions on Electrical and Electronic Engineering, 2014, 9, 158-164.	1.4	3
41	Active power modulation control of hybrid PV generator-battery for power swing stabilization. , 2016, , .		3
42	Coordinated DFIG Wind Turbines and Solar PV Generators for Inter-area Oscillation Damping. , 2018, , .		3
43	Adaptive Robust Control Based on System Identification in Microgrid Considering Converter Controlled-Based Generator Modes. IEEE Access, 2021, 9, 125970-125983.	4.2	3
44	Sugeno fuzzy logic control-based smart PV generators for frequency control in loop interconnected power systems. , 2014, , .		2
45	Optimal tuning of power system stabilizers by probability method. , 2016, , .		2
46	Distributed Frequency Suppression Method using Inverter for Photovoltaic Power Generation. , 2019, , .		2
47	Multi-Objective Decentralized Model Predictive Control for Inverter Air Conditioner Control of Indoor Temperature and Frequency Stabilization in Microgrid. Energies, 2021, 14, 6969.	3.1	2
48	PSO-based Sugeno fuzzy logic controller of photovoltaic generator for frequency stabilization in stand-alone power system. , 2013, , .		1
49	Robust stabilization of multimachine power system by DFIG wind turbine equipped with power oscillation damper. , 2014, , .		1
50	Improved H<inf>2</inf>/H<inf>∞</inf> control-based robust PI controller design of SMES for suppression of power fluctuation in microgrid. , 2014, , .		1
51	Integrated Superconducting Coil into HVDC-Wind Farm for Fault Current Limiting. , 2018, , .		1
52	An Integration of Optimal Superconducting Coil Into a Photovoltaic Generator for Stabilization of Subsynchronous Resonance. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	1
53	Effective Selection Method of System Stabilization Control Function Mounted on Smart Inverter. , 2020, , .		1
54	Wide-area damping control using signal restoration under communication uncertainties. Journal of Electrical Engineering, 2020, 71, 165-174.	0.7	1

#	Article	IF	Citations
55	Fabrication of Metallic Nano-Ring Structures by Soft Stamping with the Thermal Uplifting Method. Crystals, 2022, 12, 668.	2.2	1
56	Optimization of robust power oscillation dampers for DFIG wind turbines considering N-1 outage contingencies. , 2014, , .		0
57	A Photovoltaic Generator with Superconducting Coil for Subsynchronous Resonance Damping. , 2018, , .		0
58	Adaptive Output Power Smoothing of Grid-Connected Hybrid Wind-Photovoltaic by SMES. , 2020, , .		0