Yaoyu Li

List of Publications by Year
in descending order

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84	1,963	394286	330025
papers	citations	19 h-index	37 g-index

84	84	84	1635
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Trip-Based Optimal Power Management of Plug-in Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2008, 57, 3393-3401.	3.9	357
2	A review of recent advances in wind turbine condition monitoring and fault diagnosis. , 2009, , .		317
3	Sequential ESC-Based Global MPPT Control for Photovoltaic Array With Variable Shading. IEEE Transactions on Sustainable Energy, 2011, 2, 348-358.	5.9	153
4	Extremum seeking control of COP optimization for air-source transcritical CO2 heat pump water heater system. Applied Energy, 2015, 147, 361-372.	5.1	87
5	Maximizing Wind Turbine Energy Capture Using Multivariable Extremum Seeking Control. Wind Engineering, 2009, 33, 361-387.	1.1	75
6	Extremum seeking control of a tunable thermoacoustic cooler. IEEE Transactions on Control Systems Technology, 2005, 13, 527-536.	3.2	58
7	Real-time optimization of a chilled water plant with parallel chillers based on extremum seeking control. Applied Energy, 2017, 208, 766-781.	5.1	51
8	Dynamic modeling and self-optimizing operation of chilled water systems using extremum seeking control. Energy and Buildings, 2013, 58, 172-182.	3.1	49
9	Intermediate pressure optimization for two-stage air-source heat pump with flash tank cycle vapor injection via extremum seeking. Applied Energy, 2019, 238, 612-626.	5.1	47
10	Efficient Operation of Air-Side Economizer Using Extremum Seeking Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2010, 132, .	0.9	46
11	Extremum seeking control for efficient operation of hybrid ground source heat pump system. Renewable Energy, 2016, 86, 332-346.	4.3	43
12	Adaptive Estimation-Based Leakage Detection for a Wind Turbine Hydraulic Pitching System. IEEE/ASME Transactions on Mechatronics, 2012, 17, 907-914.	3.7	40
13	Detection of Internal Resistance Change for Photovoltaic Arrays Using Extremum-Seeking Control MPPT Signals. IEEE Transactions on Control Systems Technology, 2016, 24, 325-333.	3.2	38
14	Optimal power management of plug-in HEV with intelligent transportation system. , 2007, , .		35
15	Trip Based Power Management of Plug-in Hybrid Electric Vehicle with Two-Scale Dynamic Programming. , 2007, , .		35
16	Real-time minimization of power consumption for air-source transcritical CO 2 heat pump water heater system. International Journal of Refrigeration, 2018, 85, 395-408.	1.8	33
17	Trip Based Optimal Power Management of Plug-in Hybrid Electric Vehicle with Advanced Traffic Modeling. SAE International Journal of Engines, 0, 1, 861-872.	0.4	31
18	Self-optimizing control of air-source heat pump with multivariable extremum seeking. Applied Thermal Engineering, 2015, 84, 180-195.	3.0	27

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19	Multi-model predictive control for wind turbine operation under meandering wake of upstream turbines. Control Engineering Practice, 2015, 45, 37-45.	3.2	26
20	Recent advances in dynamic modeling of HVAC equipment. Part 2: Modelica-based modeling. HVAC and R Research, 2014, 20, 150-161.	0.9	25
21	Recent advances in dynamic modeling of HVAC equipment. Part 1: Equipment modeling. HVAC and R Research, 2014, 20, 136-149.	0.9	25
22	Equalization integrated online monitoring of health map and worthiness of replacement for battery pack of electric vehicles. Journal of Power Sources, 2013, 223, 293-305.	4.0	21
23	A Multivariable Newton-Based Extremum Seeking Control for Condenser Water Loop Optimization of Chilled-Water Plant. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	0.9	20
24	Extremum seeking control for efficient operation of an air-source heat pump water heater with internal heat exchanger cycle vapor injection. International Journal of Refrigeration, 2019, 99, 153-165.	1.8	19
25	Optimizing Energy Capture of Cascaded Wind Turbine Array With Nested-Loop Extremum Seeking Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	0.9	17
26	CART3 Field Tests for Wind Turbine Region-2 Operation With Extremum Seeking Controllers. IEEE Transactions on Control Systems Technology, 2019, 27, 1744-1752.	3.2	14
27	Multiple Reference Frame-Based Torque Ripple Reduction in DFIG-DC System. IEEE Transactions on Power Electronics, 2020, 35, 4971-4983.	5.4	14
28	Real-time efficiency optimization of a cascade heat pump system via multivariable extremum seeking. Applied Thermal Engineering, 2020, 176, 115399.	3.0	13
29	The intermediate temperature optimization for cascade refrigeration system and air source heat pump via extreme seeking control. International Journal of Refrigeration, 2020, 117, 150-162.	1.8	13
30	Platform stabilization and load reduction of floating offshore wind turbines with tensionâ€leg platform using dynamic vibration absorbers. Wind Energy, 2020, 23, 711-730.	1.9	13
31	Stabilization of floating offshore wind turbines by artificial muscle based active mooring line force control. , 2016, , .		12
32	Regime-switching based vehicle-to-building operation against electricity price spikes. Energy Economics, 2017, 66, 1-8.	5.6	12
33	Platform Stabilization of Floating Offshore Wind Turbines by Artificial Muscle Based Active Mooring Line Force Control. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2765-2776.	3.7	12
34	Multi-variable extremum seeking control for a multi-functional variable refrigerant flow system. Science and Technology for the Built Environment, 2018, 24, 382-395.	0.8	11
35	Experimental Evaluation of Extremum Seeking Based Region-2 Controller for CART3 Wind Turbine. , 2016, , .		10
36	Bumpless Transfer-Based Inter-Region Controller Switching of Wind Turbines for Reducing Power and Load Fluctuation. IEEE Transactions on Sustainable Energy, 2016, 7, 23-31.	5.9	10

#	Article	IF	Citations
37	Dual-loop self-optimizing robust control of wind power generation with Doubly-Fed Induction Generator. ISA Transactions, 2015, 58, 409-420.	3.1	9
38	Experimental evaluation of anti-windup extremum seeking control for airside economizers. Control Engineering Practice, 2016, 50, 37-47.	3.2	8
39	Multi-objective Extremum Seeking Control for Enhancement of Wind Turbine Power Capture with Load Reduction. Journal of Physics: Conference Series, 2016, 753, 052025.	0.3	7
40	Optimization and sequencing of chilled-water plant based on extremum seeking control. , 2016, , .		7
41	An extremum-seeking control method driven by inputâ€“output correlation. Journal of Process Control, 2017, 58, 106-116.	1.7	7
42	Pitch and Roll Motion Control of a Floating Wind Turbine With Hybrid Actuation. , 2014, , .		6
43	Discrimination of steady state and transient state of dither extremum seeking control via sinusoidal detection. Mechanical Systems and Signal Processing, 2016, 76-77, 93-110.	4.4	6
44	Model-free control and staging for real-time energy efficient operation of a variable refrigerant flow system with multiple outdoor units. Applied Thermal Engineering, 2020, 180, 115787.	3.0	6
45	Dual-Driver Standing Wave Tube: Acoustic Impedance Matching with Robust Repetitive Control. IEEE Transactions on Control Systems Technology, 2004, 12, 869-880.	3.2	5
46	Self-Optimizing Robust Control of Wind Power Generation With Doubly-Fed Induction Generator. , 2010, , .		5
47	Individual Pitch Control for Wind Turbine Load Reduction Including Wake Modeling. Wind Engineering, 2011, 35, 715-738.	1.1	5
48	Active Vertical-Vane Control for Roll Motion of Floating Offshore Wind Turbine. , 2013, , .		5
49	Recovery of energy losses using an online data-driven optimization technique. Energy Conversion and Management, 2020, 225, 113339.	4.4	5
50	Computationally Efficient Data-Driven Surge Map Modeling for Centrifugal Air Compressors. Proceedings of the American Control Conference, 2007, , .	0.0	4
51	Active Horizontal Vane Control for Stabilizing Platform Pitch Motion of Floating Offshore Turbines. , 2014, , .		4
52	Mode switching control for a multi-functional variable refrigerant flow system. Science and Technology for the Built Environment, 2018, 24, 418-434.	0.8	4
53	Active vertical vane control for stabilizing platform roll motion of floating offshore turbines. Wind Energy, 2018, 21, 997-1010.	1.9	4
54	Platform Stabilization and Load Reduction of Floating Offshore Wind Turbines using Dynamic Vibration Absorbers. , 2018, , .		4

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55	Local self-optimizing control based on extremum seeking control. Control Engineering Practice, 2020, 99, 104394.	3.2	4
56	Integrated prognosis of AC servo motor driven linear actuator using Hidden Semi-Markov models. , 2009, , .		3
57	Extremum seeking control based integration of MPPT and degradation detection for photovoltaic arrays. , 2010, , .		3
58	Optimal energy management of hybrid power system with two-scale dynamic programming. , 2011, , .		3
59	Self-Learning Based Centrifugal Compressor Surge Mapping With Computationally Efficient Adaptive Asymmetric Support Vector Machine. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	0.9	3
60	Comparison of Several Self-Optimizing Control Methods for Efficient Operation for a Chilled Water Plant. , 2013, , .		3
61	Discrimination of Steady State and Transient State of Extremum Seeking Control via Sinusoidal Detection. , 2013, , .		3
62	Input selection for multivariable extremum seeking control with application to real-time optimization of a chilled-water plant. , 2017, , .		3
63	ESC Based Optimal Stator Frequency Control of DFIG-DC System for Efficiency Enhancement. , 2018, , .		3
64	Dither extremum seeking control of a variable refrigerant flow system with equality constraint handling. Science and Technology for the Built Environment, 2022, 28, 152-169.	0.8	3
65	Hybrid Model Predictive Control of Floating Offshore Wind Turbines With Artificial Muscle Actuated Mooring Lines. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2022, 144, .	0.9	3
66	A Multi-Variable Newton-Based Extremum Seeking Control for a Chilled Water Plant With Variable Water and Air Flow. , 2014, , .		2
67	Nacelle anemometer measurementâ€based extremumâ€seeking wind turbine regionâ€2 control for improved convergence in fluctuating wind. Wind Energy, 2020, 23, 1118-1134.	1.9	2
68	Extremum-seeking control integrated online input selection with application to a chilled-water plant. Science and Technology for the Built Environment, 2022, 28, 170-187.	0.8	2
69	Orthonormal Basis Function Based Transient Modeling for Boring Tool Degradation Monitoring. Proceedings of the American Control Conference, 2007, , .	0.0	1
70	Trip Specific Worthiness of Replacement of Individual Cells for Battery Pack in Electric Vehicles. , 2011, , .		1
71	Optimal energy management of hybrid power system with two-scale dynamic programming. , 2011, , .		1
72	Experimental Validation for the dp/dt Assumption of Heat Exchangers in Vapor Compression Refrigeration Cycles. Journal of Heat Transfer, 2012, 134, .	1.2	1

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73	Self-optimizing control and mode switching for multi-functional Variable Refrigerant Flow air conditioning systems via extremum seeking. , 2016, , .		1
74	Real-Time Optimization of Wind Farm Energy Capture With Delay Compensated Nested-Loop Extremum Seeking Control. , 2017, , .		1
75	Convergence characteristics of PI-type iterative learning control for linear time-invariant systems. , 2017, , .		1
76	Constraint Handling in ESC Control Strategies with Application to HVAC Systems. , 2018, , .		1
77	Control Oriented Dynamic Modeling of a Tension-Leg Platform Based Floating Offshore Wind Turbine With Dynamic Vibration Absorbers. , 2018, , .		1
78	Hierarchical Model Predictive Control for the Fuel Cell Hybrid Electric Vehicles. , 2018, , .		1
79	Self-optimizing Control of an Air Source Heat Pump. , 2019, , .		1
80	Power-setpoint extremum seeking control for maximizing wind power capture of turbine and farm operation. Wind Engineering, 2020, , 0309524X2097991.	1.1	1
81	Global Self-Optimizing Control with Data-Driven Optimal Selection of Controlled Variables with Application to Chiller Plant. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2021, , .	0.9	1
82	Local minimum time trajectory planning for five-axis machining with or without deflection. , 2009, , .		0
83	A comparison of two extremum seeking control strategies based on simulation and laboratory tests for heat pump air conditioning. Science and Technology for the Built Environment, 2021, 27, 641-655.	0.8	0
84	Data-Driven Self-Optimizing Control with Parametric Programming Based Constraint Handling. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2022, , .	0.9	0