

Yaoyu Li

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74
papers

1,369
citations

18
h-index

36
g-index

84
ext. papers

1,657
ext. citations

4.2
avg, IF

4.85
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 74 | A comparison of two extremum seeking control strategies based on simulation and laboratory tests for heat pump air conditioning. <i>Science and Technology for the Built Environment</i> , 2021 , 27, 641-655 ^{1.8} | | |
| 73 | Real-time efficiency optimization of a cascade heat pump system via multivariable extremum seeking. <i>Applied Thermal Engineering</i> , 2020 , 176, 115399 | 5.8 | 5 |
| 72 | The intermediate temperature optimization for cascade refrigeration system and air source heat pump via extreme seeking control. <i>International Journal of Refrigeration</i> , 2020 , 117, 150-162 | 3.8 | 5 |
| 71 | Platform Stabilization of Floating Offshore Wind Turbines by Artificial Muscle Based Active Mooring Line Force Control. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 2765-2776 | 5.5 | 3 |
| 70 | Platform stabilization and load reduction of floating offshore wind turbines with tension-leg platform using dynamic vibration absorbers. <i>Wind Energy</i> , 2020 , 23, 711-730 | 3.4 | 2 |
| 69 | Nacelle anemometer measurement-based extremum-seeking wind turbine region-2 control for improved convergence in fluctuating wind. <i>Wind Energy</i> , 2020 , 23, 1118-1134 | 3.4 | 2 |
| 68 | Local self-optimizing control based on extremum seeking control. <i>Control Engineering Practice</i> , 2020 , 99, 104394 | 3.9 | 1 |
| 67 | Multiple Reference Frame-Based Torque Ripple Reduction in DFIG-DC System. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 4971-4983 | 7.2 | 2 |
| 66 | Model-free control and staging for real-time energy efficient operation of a variable refrigerant flow system with multiple outdoor units. <i>Applied Thermal Engineering</i> , 2020 , 180, 115787 | 5.8 | 3 |
| 65 | Recovery of energy losses using an online data-driven optimization technique. <i>Energy Conversion and Management</i> , 2020 , 225, 113339 | 10.6 | 1 |
| 64 | Power-setpoint extremum seeking control for maximizing wind power capture of turbine and farm operation. <i>Wind Engineering</i> , 2020 , 0309524X2097991 | 1.2 | 0 |
| 63 | Intermediate pressure optimization for two-stage air-source heat pump with flash tank cycle vapor injection via extremum seeking. <i>Applied Energy</i> , 2019 , 238, 612-626 | 10.7 | 20 |
| 62 | Extremum seeking control for efficient operation of an air-source heat pump water heater with internal heat exchanger cycle vapor injection. <i>International Journal of Refrigeration</i> , 2019 , 99, 153-165 | 3.8 | 9 |
| 61 | CART3 Field Tests for Wind Turbine Region-2 Operation With Extremum Seeking Controllers. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 1744-1752 | 4.8 | 8 |
| 60 | Mode switching control for a multi-functional variable refrigerant flow system. <i>Science and Technology for the Built Environment</i> , 2018 , 24, 418-434 | 1.8 | 2 |
| 59 | Real-time minimization of power consumption for air-source transcritical CO ₂ heat pump water heater system. <i>International Journal of Refrigeration</i> , 2018 , 85, 395-408 | 3.8 | 18 |
| 58 | Multi-variable extremum seeking control for a multi-functional variable refrigerant flow system. <i>Science and Technology for the Built Environment</i> , 2018 , 24, 382-395 | 1.8 | 7 |

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|----|---|------|----|
| 57 | Platform Stabilization and Load Reduction of Floating Offshore Wind Turbines using Dynamic Vibration Absorbers 2018, | | 2 |
| 56 | 2018, | | 1 |
| 55 | Control Oriented Dynamic Modeling of a Tension-Leg Platform Based Floating Offshore Wind Turbine With Dynamic Vibration Absorbers 2018, | | 1 |
| 54 | ESC Based Optimal Stator Frequency Control of DFIG-DC System for Efficiency Enhancement 2018, | | 2 |
| 53 | Hierarchical Model Predictive Control for the Fuel Cell Hybrid Electric Vehicles 2018, | | 1 |
| 52 | Active vertical vane control for stabilizing platform roll motion of floating offshore turbines. <i>Wind Energy</i> , 2018 , 21, 997-1010 | 3.4 | 2 |
| 51 | Regime-switching based vehicle-to-building operation against electricity price spikes. <i>Energy Economics</i> , 2017 , 66, 1-8 | 8.3 | 10 |
| 50 | Real-time optimization of a chilled water plant with parallel chillers based on extremum seeking control. <i>Applied Energy</i> , 2017 , 208, 766-781 | 10.7 | 38 |
| 49 | An extremum-seeking control method driven by input-output correlation. <i>Journal of Process Control</i> , 2017 , 58, 106-116 | 3.9 | 3 |
| 48 | Real-Time Optimization of Wind Farm Energy Capture With Delay Compensated Nested-Loop Extremum Seeking Control 2017, | | 1 |
| 47 | Input selection for multivariable extremum seeking control with application to real-time optimization of a chilled-water plant 2017, | | 1 |
| 46 | Bumpless Transfer-Based Inter-Region Controller Switching of Wind Turbines for Reducing Power and Load Fluctuation. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 23-31 | 8.2 | 7 |
| 45 | Extremum seeking control for efficient operation of hybrid ground source heat pump system. <i>Renewable Energy</i> , 2016 , 86, 332-346 | 8.1 | 34 |
| 44 | Detection of Internal Resistance Change for Photovoltaic Arrays Using Extremum-Seeking Control MPPT Signals. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 325-333 | 4.8 | 26 |
| 43 | Optimization and sequencing of chilled-water plant based on extremum seeking control 2016, | | 6 |
| 42 | Stabilization of floating offshore wind turbines by artificial muscle based active mooring line force control 2016, | | 9 |
| 41 | Discrimination of steady state and transient state of dither extremum seeking control via sinusoidal detection. <i>Mechanical Systems and Signal Processing</i> , 2016 , 76-77, 93-110 | 7.8 | 3 |
| 40 | Experimental evaluation of anti-windup extremum seeking control for airside economizers. <i>Control Engineering Practice</i> , 2016 , 50, 37-47 | 3.9 | 5 |

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| 39 | Multi-objective Extremum Seeking Control for Enhancement of Wind Turbine Power Capture with Load Reduction. <i>Journal of Physics: Conference Series</i> , 2016 , 753, 052025 | 0.3 | 5 |
| 38 | Experimental Evaluation of Extremum Seeking Based Region-2 Controller for CART3 Wind Turbine 2016 , | | 5 |
| 37 | Dual-loop self-optimizing robust control of wind power generation with Doubly-Fed Induction Generator. <i>ISA Transactions</i> , 2015 , 58, 409-20 | 5.5 | 7 |
| 36 | Self-optimizing control of air-source heat pump with multivariable extremum seeking. <i>Applied Thermal Engineering</i> , 2015 , 84, 180-195 | 5.8 | 21 |
| 35 | Extremum seeking control of COP optimization for air-source transcritical CO2 heat pump water heater system. <i>Applied Energy</i> , 2015 , 147, 361-372 | 10.7 | 61 |
| 34 | Multi-model predictive control for wind turbine operation under meandering wake of upstream turbines. <i>Control Engineering Practice</i> , 2015 , 45, 37-45 | 3.9 | 16 |
| 33 | Optimizing Energy Capture of Cascaded Wind Turbine Array With Nested-Loop Extremum Seeking Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015 , 137, | 1.6 | 13 |
| 32 | A Multivariable Newton-Based Extremum Seeking Control for Condenser Water Loop Optimization of Chilled-Water Plant. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015 , 137, | 1.6 | 14 |
| 31 | Active Horizontal Vane Control for Stabilizing Platform Pitch Motion of Floating Offshore Turbines 2014 , | | 4 |
| 30 | A Multi-Variable Newton-Based Extremum Seeking Control for a Chilled Water Plant With Variable Water and Air Flow 2014 , | | 2 |
| 29 | Recent advances in dynamic modeling of HVAC equipment. Part 2: Modelica-based modeling. <i>HVAC and R Research</i> , 2014 , 20, 150-161 | | 15 |
| 28 | Recent advances in dynamic modeling of HVAC equipment. Part 1: Equipment modeling. <i>HVAC and R Research</i> , 2014 , 20, 136-149 | | 13 |
| 27 | Pitch and Roll Motion Control of a Floating Wind Turbine With Hybrid Actuation 2014 , | | 6 |
| 26 | Active Vertical-Vane Control for Roll Motion of Floating Offshore Wind Turbine 2013 , | | 5 |
| 25 | Dynamic modeling and self-optimizing operation of chilled water systems using extremum seeking control. <i>Energy and Buildings</i> , 2013 , 58, 172-182 | 7 | 39 |
| 24 | Equalization integrated online monitoring of health map and worthiness of replacement for battery pack of electric vehicles. <i>Journal of Power Sources</i> , 2013 , 223, 293-305 | 8.9 | 19 |
| 23 | Comparison of Several Self-Optimizing Control Methods for Efficient Operation for a Chilled Water Plant 2013 , | | 2 |
| 22 | Discrimination of Steady State and Transient State of Extremum Seeking Control via Sinusoidal Detection 2013 , | | 2 |

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|----|---|-----|-----|
| 21 | Adaptive Estimation-Based Leakage Detection for a Wind Turbine Hydraulic Pitching System. <i>IEEE/ASME Transactions on Mechatronics</i> , 2012 , 17, 907-914 | 5.5 | 31 |
| 20 | Experimental Validation for the dp/dt Assumption of Heat Exchangers in Vapor Compression Refrigeration Cycles. <i>Journal of Heat Transfer</i> , 2012 , 134, | 1.8 | 1 |
| 19 | Self-Learning Based Centrifugal Compressor Surge Mapping With Computationally Efficient Adaptive Asymmetric Support Vector Machine. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2012 , 134, | 1.6 | 3 |
| 18 | Optimal energy management of hybrid power system with two-scale dynamic programming 2011 , | | 3 |
| 17 | Trip Specific Worthiness of Replacement of Individual Cells for Battery Pack in Electric Vehicles 2011 , | | 1 |
| 16 | Individual Pitch Control for Wind Turbine Load Reduction Including Wake Modeling. <i>Wind Engineering</i> , 2011 , 35, 715-738 | 1.2 | 4 |
| 15 | Sequential ESC-Based Global MPPT Control for Photovoltaic Array With Variable Shading. <i>IEEE Transactions on Sustainable Energy</i> , 2011 , 2, 348-358 | 8.2 | 122 |
| 14 | Efficient Operation of Air-Side Economizer Using Extremum Seeking Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2010 , 132, | 1.6 | 37 |
| 13 | Self-Optimizing Robust Control of Wind Power Generation With Doubly-Fed Induction Generator 2010 , | | 2 |
| 12 | A review of recent advances in wind turbine condition monitoring and fault diagnosis 2009 , | | 230 |
| 11 | Integrated prognosis of AC servo motor driven linear actuator using Hidden Semi-Markov models 2009 , | | 1 |
| 10 | Maximizing Wind Turbine Energy Capture Using Multivariable Extremum Seeking Control. <i>Wind Engineering</i> , 2009 , 33, 361-387 | 1.2 | 57 |
| 9 | Trip-Based Optimal Power Management of Plug-in Hybrid Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2008 , 57, 3393-3401 | 6.8 | 272 |
| 8 | Trip Based Optimal Power Management of Plug-in Hybrid Electric Vehicle with Advanced Traffic Modeling. <i>SAE International Journal of Engines</i> , 2008 , 1, 861-872 | 2.4 | 14 |
| 7 | Trip Based Power Management of Plug-in Hybrid Electric Vehicle with Two-Scale Dynamic Programming 2007 , | | 27 |
| 6 | Computationally Efficient Data-Driven Surge Map Modeling for Centrifugal Air Compressors. <i>Proceedings of the American Control Conference</i> , 2007 , | 1.2 | 4 |
| 5 | Optimal power management of plug-in HEV with intelligent transportation system 2007 , | | 18 |
| 4 | Extremum seeking control of a tunable thermoacoustic cooler. <i>IEEE Transactions on Control Systems Technology</i> , 2005 , 13, 527-536 | 4.8 | 47 |

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| 3 | Dual-driver standing wave tube: acoustic impedance matching with robust repetitive control. <i>IEEE Transactions on Control Systems Technology</i> , 2004 , 12, 869-880 | 4.8 | 5 |
| 2 | Dither extremum seeking control of a variable refrigerant flow system with equality constraint handling. <i>Science and Technology for the Built Environment</i> ,1-18 | 1.8 | |
| 1 | Extremum-seeking control integrated online input selection with application to a chilled-water plant. <i>Science and Technology for the Built Environment</i> ,1-18 | 1.8 | 0 |