

# Dongmei Chen

## List of Publications by Citations

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41  
papers

862  
citations

11  
h-index

29  
g-index

47  
ext. papers

1,094  
ext. citations

3.8  
avg. IF

4.19  
L-index

#	Paper	IF	Citations
41	Battery Energy Storage for Enabling Integration of Distributed Solar Power Generation. <i>IEEE Transactions on Smart Grid</i> , <b>2012</b> , 3, 850-857	10.7	449
40	An experimental study and model validation of a membrane humidifier for PEM fuel cell humidification control. <i>Journal of Power Sources</i> , <b>2008</b> , 180, 461-467	8.9	74
39	A Thermodynamic Model of Membrane Humidifiers for PEM Fuel Cell Humidification Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2005</b> , 127, 424-432	1.6	50
38	Wind energy conversion with a variable-ratio gearbox: design and analysis. <i>Renewable Energy</i> , <b>2011</b> , 36, 1075-1080	8.1	37
37	Utilization of Optimal Control Law to Size Grid-Level Flywheel Energy Storage. <i>IEEE Transactions on Sustainable Energy</i> , <b>2013</b> , 4, 611-618	8.2	22
36	Performance of a 100kW wind turbine with a Variable Ratio Gearbox. <i>Renewable Energy</i> , <b>2012</b> , 44, 261-266	8.6	21
35	Optimal Real-Time Control of Wind Turbine During Partial Load Operation. <i>IEEE Transactions on Control Systems Technology</i> , <b>2015</b> , 23, 2216-2226	4.8	17
34	Roll-to-Roll Mechanical Peeling for Dry Transfer of Chemical Vapor Deposition Graphene. <i>Journal of Micro and Nano-Manufacturing</i> , <b>2018</b> , 6,	1.3	15
33	Stability of Wind Turbine Switching Control in an Integrated Wind Turbine and Rechargeable Battery System: A Common Quadratic Lyapunov Function Approach. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2013</b> , 135,	1.6	14
32	Dynamic Optimization of Drivetrain Gear Ratio to Maximize Wind Turbine Power Generation Part 1: System Model and Control Framework. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2013</b> , 135,	1.6	14
31	Performance Improvements of Switching Control for Wind Turbines. <i>IEEE Transactions on Sustainable Energy</i> , <b>2016</b> , 7, 526-534	8.2	11
30	A Consumer-Oriented Control Framework for Performance Analysis in Hybrid Electric Vehicles. <i>IEEE Transactions on Control Systems Technology</i> , <b>2015</b> , 23, 1451-1464	4.8	10
29	Optimal Control of a Wind Turbine With a Variable Ratio Gearbox for Maximum Energy Capture and Prolonged Gear Life. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , <b>2014</b> , 136,	2.3	10
28	Development of a real-time testing environment for battery energy storage systems in renewable energy applications <b>2011</b> ,		10
27	An Adaptive Wind Turbine Controller Considering Both the System Performance and Fatigue Loading. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2015</b> , 137,	1.6	8
26	Tradeoff analysis of energy harvesting and noise emission for distributed wind turbines. <i>Sustainable Energy Technologies and Assessments</i> , <b>2015</b> , 10, 12-21	4.7	7
25	Critical control volume sizing for improved transient thermal modeling of PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 7762-7768	6.7	7

24	Lumped-Parameter Model to Describe Dynamic Translational Interaction for High-Temperature Superconducting Bearings. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2014</b> , 24, 46-53	1.8	7
23	stability of wind turbine switching control. <i>International Journal of Control</i> , <b>2015</b> , 88, 193-203	1.5	6
22	Modeling and simulation of a PEM fuel cell humidification system <b>2004</b> ,		6
21	Roll-to-Roll Dry Transfer of Large-Scale Graphene. <i>Advanced Materials</i> , <b>2021</b> , e2106615	24	6
20	Drowsiness Detection With Electrooculography Signal Using a System Dynamics Approach. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2017</b> , 139,	1.6	5
19	Reduced-Order Dynamic Model of Permanent Magnet and HTSC Interaction in an Axisymmetric Frame. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2014</b> , 19, 1226-1233	5.5	5
18	Energy-Conscientious Trajectory Planning for an Autonomous Mobile Robot in an Asymmetric Task Space. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2021</b> , 101, 1	2.9	5
17	Dynamic programming based controllers to suppress stick-slip in a drilling system <b>2017</b> ,		4
16	An Integrated Control and Design Framework for Optimizing Energy Capture and Component Life for a Wind Turbine Variable Ratio Gearbox. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , <b>2015</b> , 137,	2.3	4
15	A Constrained Extended Kalman Filter for State-of-Charge Estimation of a Vanadium Redox Flow Battery With Crossover Effects. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2014</b> , 136,	1.6	4
14	Analysis of non-minimum phase behavior of PEM fuel cell membrane humidification systems		4
13	Fast Scheduling of Autonomous Mobile Robots Under Task Space Constraints With Priorities. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2019</b> , 141,	1.6	3
12	Adaptive Gain Modified Optimal Torque Controller for Wind Turbine Partial Load Operation <b>2014</b> ,		3
11	Membrane Electrolyte Assembly Health Estimation Method for Proton Exchange Membrane Fuel Cells. <i>Journal of Electrochemical Energy Conversion and Storage</i> , <b>2017</b> , 14,	2	3
10	Multi-disciplinary decision making and optimization for hybrid electric propulsion systems <b>2014</b> ,		3
9	Dynamic Optimization of Drivetrain Gear Ratio to Maximize Wind Turbine Power Generation Part 2: Control Design. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2013</b> , 135,	1.6	3
8	Wind Turbine Gearbox Control for Maximum Energy Capture and Prolonged Gear Life <b>2012</b> ,		3
7	Nonminimum-Phase Phenomenon of PEM Fuel Cell Membrane Humidifiers. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2008</b> , 130,	1.6	3

6	Wind Turbine Participation in Primary Frequency Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2019</b> , 141,	1.6	2
5	A Fast Algorithm on Minimum-Time Scheduling of an Autonomous Ground Vehicle Using a Traveling Salesman Framework. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2018</b> , 140,	1.6	2
4	Dynamic Performance of Lumped Parameter Model for Superconducting Levitation. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-8	1.8	2
3	Optimal Power Dispatch and Control of an Integrated Wind Turbine and Battery System. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2017</b> , 139,	1.6	1
2	The Effects of Membrane Properties and Structural Parameters on the Non-Minimum Phase Behavior of the PEM Fuel Cell Humidification System. <i>Journal of Fuel Cell Science and Technology</i> , <b>2012</b> , 9,		1
1	Maximizing Wind Energy Capture for Speed-Constrained Wind Turbines During Partial Load Operation. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2016</b> , 138,	1.6	1