

Dongmei Chen

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.

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	Roll-to-Roll Dry Transfer of Large-Scale Graphene. <i>Advanced Materials</i> , 2021 , e2106615	24	6
40	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> , 2021 , 101, 1	2.9	5
39	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> , 2019 , 141,	1.6	3
38	Wind Turbine Participation in Primary Frequency Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2019 , 141,	1.6	2
37	Roll-to-Roll Mechanical Peeling for Dry Transfer of Chemical Vapor Deposition Graphene. <i>Journal of Micro and Nano-Manufacturing</i> , 2018 , 6,	1.3	15
36	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> , 2018 , 140,	1.6	2
35	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> , 2017 , 139,	1.6	1
34	Drowsiness Detection With Electrooculography Signal Using a System Dynamics Approach. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2017 , 139,	1.6	5
33	Dynamic programming based controllers to suppress stick-slip in a drilling system 2017 ,		4
32	Membrane Electrolyte Assembly Health Estimation Method for Proton Exchange Membrane Fuel Cells. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2017 , 14,	2	3
31	Performance Improvements of Switching Control for Wind Turbines. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 526-534	8.2	11
30	Dynamic Performance of Lumped Parameter Model for Superconducting Levitation. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-8	1.8	2
29	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> , 2016 , 138,	1.6	1
28	Optimal Real-Time Control of Wind Turbine During Partial Load Operation. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 2216-2226	4.8	17
27	stability of wind turbine switching control. <i>International Journal of Control</i> , 2015 , 88, 193-203	1.5	6
26	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> , 2015 , 137,	2.3	4
25	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> , 2015 , 137,	1.6	8

24	Tradeoff analysis of energy harvesting and noise emission for distributed wind turbines. <i>Sustainable Energy Technologies and Assessments</i> , 2015 , 10, 12-21	4.7	7
23	A Consumer-Oriented Control Framework for Performance Analysis in Hybrid Electric Vehicles. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 1451-1464	4.8	10
22	Critical control volume sizing for improved transient thermal modeling of PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 7762-7768	6.7	7
21	Reduced-Order Dynamic Model of Permanent Magnet and HTSC Interaction in an Axisymmetric Frame. <i>IEEE/ASME Transactions on Mechatronics</i> , 2014 , 19, 1226-1233	5.5	5
20	Adaptive Gain Modified Optimal Torque Controller for Wind Turbine Partial Load Operation 2014 ,		3
19	Multi-disciplinary decision making and optimization for hybrid electric propulsion systems 2014 ,		3
18	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> , 2014 , 136,	1.6	4
17	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> , 2014 , 136,	2.3	10
16	Lumped-Parameter Model to Describe Dynamic Translational Interaction for High-Temperature Superconducting Bearings. <i>IEEE Transactions on Applied Superconductivity</i> , 2014 , 24, 46-53	1.8	7
15	Utilization of Optimal Control Law to Size Grid-Level Flywheel Energy Storage. <i>IEEE Transactions on Sustainable Energy</i> , 2013 , 4, 611-618	8.2	22
14	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> , 2013 , 135,	1.6	14
13	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> , 2013 , 135,	1.6	14
12	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> , 2013 , 135,	1.6	3
11	Performance of a 100kW wind turbine with a Variable Ratio Gearbox. <i>Renewable Energy</i> , 2012 , 44, 261-266	2.6	21
10	Battery Energy Storage for Enabling Integration of Distributed Solar Power Generation. <i>IEEE Transactions on Smart Grid</i> , 2012 , 3, 850-857	10.7	449
9	Wind Turbine Gearbox Control for Maximum Energy Capture and Prolonged Gear Life 2012 ,		3
8	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> , 2012 , 9,		1
7	Development of a real-time testing environment for battery energy storage systems in renewable energy applications 2011 ,		10

6	Wind energy conversion with a variable-ratio gearbox: design and analysis. <i>Renewable Energy</i> , 2011 , 36, 1075-1080	8.1	37
5	Nonminimum-Phase Phenomenon of PEM Fuel Cell Membrane Humidifiers. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2008 , 130,	1.6	3
4	An experimental study and model validation of a membrane humidifier for PEM fuel cell humidification control. <i>Journal of Power Sources</i> , 2008 , 180, 461-467	8.9	74
3	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> , 2005 , 127, 424-432	1.6	50
2	Modeling and simulation of a PEM fuel cell humidification system 2004 ,		6
1	Analysis of non-minimum phase behavior of PEM fuel cell membrane humidification systems		4