

Dongmei Chen

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,246
citations

758635

12
h-index

377514

34
g-index

47
all docs

47
docs citations

47
times ranked

1377
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Battery Energy Storage for Enabling Integration of Distributed Solar Power Generation. IEEE Transactions on Smart Grid, 2012, 3, 850-857. | 6.2 | 630 |
| 2 | An experimental study and model validation of a membrane humidifier for PEM fuel cell humidification control. Journal of Power Sources, 2008, 180, 461-467. | 4.0 | 100 |
| 3 | A Thermodynamic Model of Membrane Humidifiers for PEM Fuel Cell Humidification Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2005, 127, 424-432. | 0.9 | 62 |
| 4 | Wind energy conversion with a variable-ratio gearbox: design and analysis. Renewable Energy, 2011, 36, 1075-1080. | 4.3 | 47 |
| 5 | Utilization of Optimal Control Law to Size Grid-Level Flywheel Energy Storage. IEEE Transactions on Sustainable Energy, 2013, 4, 611-618. | 5.9 | 35 |
| 6 | Roll-to-Roll Dry Transfer of Large-Scale Graphene. Advanced Materials, 2022, 34, e2106615. | 11.1 | 32 |
| 7 | Roll-to-Roll Mechanical Peeling for Dry Transfer of Chemical Vapor Deposition Graphene. Journal of Micro and Nano-Manufacturing, 2018, 6, . | 0.8 | 26 |
| 8 | Performance of a 100kW wind turbine with a Variable Ratio Gearbox. Renewable Energy, 2012, 44, 261-266. | 4.3 | 24 |
| 9 | Optimal Real-Time Control of Wind Turbine During Partial Load Operation. IEEE Transactions on Control Systems Technology, 2015, 23, 2216-2226. | 3.2 | 23 |
| 10 | Stability of Wind Turbine Switching Control in an Integrated Wind Turbine and Rechargeable Battery System: A Common Quadratic Lyapunov Function Approach. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, . | 0.9 | 22 |
| 11 | Performance Improvements of Switching Control for Wind Turbines. IEEE Transactions on Sustainable Energy, 2016, 7, 526-534. | 5.9 | 19 |
| 12 | Dynamic Optimization of Drivetrain Gear Ratio to Maximize Wind Turbine Power Generation—Part 1: System Model and Control Framework. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, . | 0.9 | 18 |
| 13 | Development of a real-time testing environment for battery energy storage systems in renewable energy applications. , 2011, , . | | 16 |
| 14 | Modeling and simulation of a PEM fuel cell humidification system. , 2004, , . | | 15 |
| 15 | Optimal Control of a Wind Turbine With a Variable Ratio Gearbox for Maximum Energy Capture and Prolonged Gear Life. Journal of Solar Energy Engineering, Transactions of the ASME, 2014, 136, . | 1.1 | 12 |
| 16 | A Consumer-Oriented Control Framework for Performance Analysis in Hybrid Electric Vehicles. IEEE Transactions on Control Systems Technology, 2015, 23, 1451-1464. | 3.2 | 12 |
| 17 | Analysis of non-minimum phase behavior of PEM fuel cell membrane humidification systems. , 0, , . | | 10 |
| 18 | Drowsiness Detection With Electrooculography Signal Using a System Dynamics Approach. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, . | 0.9 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Fast Scheduling of Autonomous Mobile Robots Under Task Space Constraints With Priorities. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, . | 0.9 | 10 |
| 20 | A Constrained Extended Kalman Filter for State-of-Charge Estimation of a Vanadium Redox Flow Battery With Crossover Effects. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, . | 0.9 | 9 |
| 21 | Lumped-Parameter Model to Describe Dynamic Translational Interaction for High-Temperature Superconducting Bearings. IEEE Transactions on Applied Superconductivity, 2014, 24, 46-53. | 1.1 | 9 |
| 22 | Tradeoff analysis of energy harvesting and noise emission for distributed wind turbines. Sustainable Energy Technologies and Assessments, 2015, 10, 12-21. | 1.7 | 9 |
| 23 | Critical control volume sizing for improved transient thermal modeling of PEM fuel cells. International Journal of Hydrogen Energy, 2015, 40, 7762-7768. | 3.8 | 9 |
| 24 | stability of wind turbine switching control. International Journal of Control, 2015, 88, 193-203. | 1.2 | 9 |
| 25 | An Adaptive Wind Turbine Controller Considering Both the System Performance and Fatigue Loading. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, . | 0.9 | 8 |
| 26 | Energy-Conscientious Trajectory Planning for an Autonomous Mobile Robot in an Asymmetric Task Space. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 101, 1. | 2.0 | 7 |
| 27 | Dynamic programming based controllers to suppress stick-slip in a drilling system. , 2017, , . | | 6 |
| 28 | A Dynamic System Model for Roll-to-Roll Dry Transfer of Two-Dimensional Materials and Printed Electronics. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2022, 144, . | 0.9 | 6 |
| 29 | Dynamic Optimization of Drivetrain Gear Ratio to Maximize Wind Turbine Power Generationâ€”Part 2: Control Design. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, . | 0.9 | 5 |
| 30 | Multi-disciplinary decision making and optimization for hybrid electric propulsion systems. , 2014, , . | | 5 |
| 31 | Reduced-Order Dynamic Model of Permanent Magnet and HTSC Interaction in an Axisymmetric Frame. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1226-1233. | 3.7 | 5 |
| 32 | An Integrated Control and Design Framework for Optimizing Energy Capture and Component Life for a Wind Turbine Variable Ratio Gearbox. Journal of Solar Energy Engineering, Transactions of the ASME, 2015, 137, . | 1.1 | 5 |
| 33 | A Fast Algorithm on Minimum-Time Scheduling of an Autonomous Ground Vehicle Using a Traveling Salesman Framework. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, . | 0.9 | 5 |
| 34 | Wind Turbine Gearbox Control for Maximum Energy Capture and Prolonged Gear Life. , 2012, , . | | 4 |
| 35 | Nonminimum-Phase Phenomenon of PEM Fuel Cell Membrane Humidifiers. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2008, 130, . | 0.9 | 3 |
| 36 | Adaptive Gain Modified Optimal Torque Controller for Wind Turbine Partial Load Operation. , 2014, , . | | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Optimal Power Dispatch and Control of an Integrated Wind Turbine and Battery System. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, . | 0.9 | 3 |
| 38 | Membrane Electrolyte Assembly Health Estimation Method for Proton Exchange Membrane Fuel Cells. Journal of Electrochemical Energy Conversion and Storage, 2017, 14, . | 1.1 | 3 |
| 39 | The Effects of Membrane Properties and Structural Parameters on the Non-Minimum Phase Behavior of the PEM Fuel Cell Humidification System. Journal of Fuel Cell Science and Technology, 2012, 9, . | 0.8 | 2 |
| 40 | Dynamic Performance of Lumped Parameter Model for Superconducting Levitation. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-8. | 1.1 | 2 |
| 41 | Maximizing Wind Energy Capture for Speed-Constrained Wind Turbines During Partial Load Operation. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, . | 0.9 | 2 |
| 42 | Wind Turbine Participation in Primary Frequency Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, . | 0.9 | 2 |
| 43 | MIMO control of wind turbine using direct shooting method. , 2013, , . | | 1 |
| 44 | Estimation for Predictive Control and Human-in-the-Loop Operation of Rotary Steerable Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2022, 144, . | 0.9 | 1 |
| 45 | Control of a variable ratio gearbox and mechanical brake to maximize wind energy production. , 2012, , . | | 0 |
| 46 | Control Oriented Discretized Cathode Control Volume Method for Improved PEM Fuel Cell Modeling. , 2015, , . | | 0 |
| 47 | Real-Time Bradycardia Prediction in Preterm Infants Using a Dynamic System Identification Approach. Journal of Engineering and Science in Medical Diagnostics and Therapy, 2020, 3, . | 0.3 | 0 |