

Junghwan Chang

List of Publications by Year in descending order

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papers

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all docs

40
docs citations

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times ranked

367
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A New Electromagnetic Linear Actuator for Quick Latching. IEEE Transactions on Magnetics, 2007, 43, 1849-1852. | 2.1 | 55 |
| 2 | Design of a Novel Electromagnetic Energy Harvester With Dual Core for Deicing Device of Transmission Lines. IEEE Transactions on Magnetics, 2019, 55, 1-4. | 2.1 | 24 |
| 3 | Design of novel electromagnetic energy harvester to power a deicing robot and monitoring sensors for transmission lines. Energy Conversion and Management, 2019, 197, 111868. | 9.2 | 22 |
| 4 | Design and Characteristics Analysis of Coaxial Magnetic Gear for Contra-Rotating Propeller in Yacht. IEEE Transactions on Industrial Electronics, 2020, 67, 7250-7259. | 7.9 | 21 |
| 5 | Effects of Flux Modulation Poles on the Radial Magnetic Forces in Surface-Mounted Permanent-Magnet Vernier Machines. IEEE Transactions on Magnetics, 2017, 53, 1-4. | 2.1 | 19 |
| 6 | Investigation of Doubly Salient Structure for Permanent Magnet Vernier Machines Using Flux Modulation Effects. IEEE Transactions on Energy Conversion, 2019, 34, 2019-2028. | 5.2 | 19 |
| 7 | A New Approach to Detect Mover Position in Linear Motors Using Magnetic Sensors. Sensors, 2015, 15, 26694-26708. | 3.8 | 18 |
| 8 | A Novel High-Resolution Optical Encoder With Axially Stacked Coded Disk for Modular Joints: Physical Modeling and Experimental Validation. IEEE Sensors Journal, 2018, 18, 6001-6008. | 4.7 | 17 |
| 9 | Comparison of Radial Force at Modulating Pieces in Coaxial Magnetic Gear and Magnetic Geared Machine. IEEE Transactions on Magnetics, 2018, 54, 1-4. | 2.1 | 15 |
| 10 | Nonlinear modeling and performance testing of high-power electromagnetic energy harvesting system for self-powering transmission line vibration deicing robot. Mechanical Systems and Signal Processing, 2021, 151, 107369. | 8.0 | 13 |
| 11 | Design of Electromagnetic Linear Actuator Using the Equivalent Magnetic Circuit Method. IEEE Transactions on Magnetics, 2016, 52, 1-4. | 2.1 | 12 |
| 12 | Design of Linear Magnetic Position Sensor Used in Permanent Magnet Linear Machine With Consideration of Manufacturing Tolerances. IEEE Sensors Journal, 2019, 19, 5239-5248. | 4.7 | 12 |
| 13 | Comparative analysis of wave winding topologies and performance characteristics in ultra-thin printed circuit board axial-flux permanent magnet machine. IET Electric Power Applications, 2019, 13, 694-701. | 1.8 | 11 |
| 14 | Design and comparative survey of high torque coaxial permanent magnet coupling for tidal current generator. International Journal of Electrical Power and Energy Systems, 2020, 120, 105966. | 5.5 | 11 |
| 15 | Design of absolute encoder disk coding based on affine n digit N-ary gray code. , 2016, , . | | 10 |
| 16 | Analysis of the Vibration Characteristics of Coaxial Magnetic Gear. IEEE Transactions on Magnetics, 2017, 53, 1-4. | 2.1 | 10 |
| 17 | Influences of Winding MMF Harmonics on Torque Characteristics in Surface-Mounted Permanent Magnet Vernier Machines. Energies, 2017, 10, 580. | 3.1 | 10 |
| 18 | Fast Numerical Analysis of Electric Motor Using Nonlinear Model Order Reduction. IEEE Transactions on Magnetics, 2018, 54, 1-4. | 2.1 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Design of a High-Force Electromechanical Actuator for Electrically Driven Lathe Machine. IEEE Transactions on Industrial Electronics, 2020, 67, 9526-9535. | 7.9 | 8 |
| 20 | Analytical Magnetic Field Calculation of Coaxial Magnetic Gear With Flux Concentrating Rotor. IEEE Transactions on Magnetics, 2016, 52, 1-4. | 2.1 | 7 |
| 21 | Design and Parametric Study of the Magnetic Sensor for Position Detection in Linear Motor Based on Nonlinear Parametric model order reduction. Sensors, 2017, 17, 1543. | 3.8 | 6 |
| 22 | Parametric Design Analysis of Magnetic Sensor Based on Model Order Reduction and Reliability-Based Design Optimization. IEEE Transactions on Magnetics, 2018, 54, 1-4. | 2.1 | 6 |
| 23 | Precise Estimation of Initial Pole Position for Surface Permanent Magnet Synchronous Motor Based on Modified Reference Frame Method. IEEE Transactions on Magnetics, 2017, 53, 1-9. | 2.1 | 5 |
| 24 | Model-based design of variable speed non-salient pole permanent magnet synchronous generator for urban water pipeline energy harvester. International Journal of Electrical Power and Energy Systems, 2021, 125, 106402. | 5.5 | 5 |
| 25 | Computationally Efficient Stator AC Winding Loss Analysis Model for Traction Motors Used in High-Speed Railway Electric Multiple Unit. IEEE Access, 2022, 10, 28725-28738. | 4.2 | 5 |
| 26 | Novel Core Airgap Profiles Design Scheme for Winding and Thermal Loss Reduction in High-Frequency Current Transformer Sensors. IEEE Sensors Journal, 2020, 20, 892-898. | 4.7 | 3 |
| 27 | Practical Consideration and Testing of Superior High Force Electromechanical Actuator for Electrically Driven Lathe. Mechatronics, 2021, 79, 102664. | 3.3 | 3 |
| 28 | Dynamic Analysis of Surface-Mounted Permanent Magnet Type Coaxial Magnetic Gear With Damper Bar Considering Magnetic Field Modulation Effect. IEEE Access, 2022, 10, 33616-33627. | 4.2 | 3 |
| 29 | Linear position detection method using magnetic sensors for transverse flux linear motor. , 2010, , . | | 2 |
| 30 | Design and Analysis of Surface-Mounted PM Vernier Machines Considering Harmonic Characteristics of Winding MMF. Energies, 2019, 12, 897. | 3.1 | 2 |
| 31 | Development of Coursework on Studying Fugitive Dust From Construction Site Using Optical-Type Dust Sensor. IEEE Sensors Journal, 2021, 21, 17318-17326. | 4.7 | 2 |
| 32 | Influence of Structural and Physical Parameters on Working Harmonic of Flux-Modulated Linear Actuator for Energy Storage System Fire Hazard Detection Robot. IEEE Transactions on Energy Conversion, 2022, 37, 1715-1725. | 5.2 | 2 |
| 33 | Determination of Design Parameters Considering Working Harmonic and Irreversible Demagnetization for Flux-Modulated Linear Actuator. IEEE/ASME Transactions on Mechatronics, 2022, 27, 5037-5048. | 5.8 | 2 |
| 34 | Characteristics Analysis of Doubly Fed Magnetic Geared Motor Considering Winding Frequency Conditions. Energies, 2018, 11, 2564. | 3.1 | 1 |
| 35 | Efficiency Improvement Strategy for Multiple Operating Points in Doubly Fed Magnetic Geared Motor. Applied Sciences (Switzerland), 2020, 10, 2456. | 2.5 | 1 |
| 36 | Performance of Urban Water-Pipeline Energy Harvester System Considering Electromagnetic-Mechanical Design. IEEE Transactions on Energy Conversion, 2022, 37, 389-402. | 5.2 | 1 |

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|----|--|-----|-----------|
| 37 | Design procedures of transverse flux linear motor. , 2010, , . | | 0 |
| 38 | Analysis of the vibration characteristics of coaxial magnetic gear. , 2016, , . | | 0 |
| 39 | Comparison of the characteristics of coaxial magnetic gears with PM and AC excitation. , 2016, , . | | 0 |
| 40 | Indirect Method to Measure of Initial Mover Position in Flux-Modulated Linear Actuator for Five-Axis Gantry Robot Using Low-Cost Current Sensors and Considering End Effect. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 6123-6134. | 5.4 | 0 |