

He Zhang

List of Publications by Year in descending order

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73
papers

1,130
citations

394421

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414414

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73
all docs

73
docs citations

73
times ranked

1256
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling and Optimization of a Large-Load Magnetic Levitation Gravity Compensator. IEEE Transactions on Industrial Electronics, 2023, 70, 5055-5064.	7.9	2
2	Design and Analysis of a High Thrust Linear Voice Coil Motor Using for the Stiffness Test of Linear Motor Servo System. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	1
3	A Review of Computer Vision-Based Structural Deformation Monitoring in Field Environments. Sensors, 2022, 22, 3789.	3.8	20
4	Recent Progress in Sensing Technology Based on Triboelectric Nanogenerators in Dynamic Behaviors. Sensors, 2022, 22, 4837.	3.8	7
5	A Novel Dual-Consequent-Pole Transverse Flux Motor and Its Analytical Modeling. IEEE Transactions on Industrial Electronics, 2021, 68, 4141-4152.	7.9	14
6	Development, Design, and Analysis of a Dual-Consequent-Pole Transverse Flux Linear Machine for Direct-Drive Applications. IEEE Transactions on Industrial Electronics, 2021, 68, 6097-6108.	7.9	20
7	An Improved Surface Charge Model for the Static Force Calculation Among the Permanent Magnets in Magnetic Bearings or Magnetic Springs. IEEE Transactions on Magnetics, 2021, 57, 1-4.	2.1	8
8	Design and Analysis of a Novel Modular Electromagnetic Actuator for Micro-Nano Satellite Application. IEEE Transactions on Energy Conversion, 2021, 36, 402-411.	5.2	3
9	A Contact-Mode Triboelectric Nanogenerator for Energy Harvesting from Marine Pipe Vibrations. Sensors, 2021, 21, 1514.	3.8	32
10	Responses of soil respiration to rainfall depth and frequency in semiarid grassland communities. Ecohydrology, 2021, 14, e2326.	2.4	3
11	Model Improvement and Optimal Design of a Large-Load Magnetic Levitation Gravity Compensator. , 2021, , .		1
12	Evaluating the capability of a <sc>UAV</sc>-borne spectrometer for soil organic carbon mapping in bare croplands. Land Degradation and Development, 2021, 32, 4375-4389.	3.9	7
13	Mapping Canopy Heights in Dense Tropical Forests Using Low-Cost UAV-Derived Photogrammetric Point Clouds and Machine Learning Approaches. Remote Sensing, 2021, 13, 3777.	4.0	11
14	Analysis and Design of a Novel Magnetic Levitation Gravity Compensator With Low Passive Force Variation in a Large Vertical Displacement. IEEE Transactions on Industrial Electronics, 2020, 67, 4797-4805.	7.9	17
15	Study on the effect of corrosion defects on VIV behavior of marine pipe using a new defective pipe element. International Journal of Naval Architecture and Ocean Engineering, 2020, 12, 552-568.	2.3	1
16	Dynamic Analysis of Metro Train-Monolithic Bed Track System under Tunnel Differential Settlement. Shock and Vibration, 2020, 2020, 1-12.	0.6	1
17	Electromagnetic Design of a Dual-Consequent-Pole Transverse Flux Motor. IEEE Transactions on Energy Conversion, 2020, 35, 1547-1558.	5.2	10
18	Comparison of Toroidal-Winding Linear PM Vernier Machines with Typical Linear Synchronous Machines in Aspect of Thrust Force Characteristics. , 2019, , .		3

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19	Evaluating the potential of post-processing kinematic (PPK) georeferencing for UAV-based structure-from-motion (SfM) photogrammetry and surface change detection. <i>Earth Surface Dynamics</i> , 2019, 7, 807-827.	2.4	89
20	DC Drift Error Mitigation Method for Three-Phase Current Reconstruction With Single Hall Current Sensor. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-4.	2.1	23
21	Design, Analysis and Test of a Hyperbolic Magnetic Field Voice Coil Actuator for Magnetic Levitation Fine Positioning Stage. <i>Energies</i> , 2019, 12, 1830.	3.1	1
22	Design and Analysis of a Novel Linear Vernier Motor with Split Tooth Structure. , 2019, , .		6
23	Modeling and Analysis of a Large-Load Magnetic Levitation Gravity Compensator. , 2019, , .		1
24	Modelling of a Dual-side Excited Transverse Flux Permanent Magnet Linear Motor. , 2019, , .		1
25	A Portable Triboelectric Nanogenerator for Real-Time Respiration Monitoring. <i>Nanoscale Research Letters</i> , 2019, 14, 354.	5.7	61
26	Analysis of a Novel Transverse-flux Machine with Dual-tooth-slot Core Configuration for Direct-drive Applications. , 2019, , .		1
27	PWM-VSI Fault Diagnosis for a PMSM Drive Based on the Fuzzy Logic Approach. <i>IEEE Transactions on Power Electronics</i> , 2019, 34, 759-768.	7.9	137
28	An Accurate Virtual Signal Injection Control of MTPA for an IPMSM With Fast Dynamic Response. <i>IEEE Transactions on Power Electronics</i> , 2018, 33, 7916-7926.	7.9	41
29	Force characteristic analysis of a magnetic gravity compensator with annular magnet array for magnetic levitation positioning system. <i>AIP Advances</i> , 2018, 8, .	1.3	5
30	Design and Losses Analysis of a High Power Density Machine for Flooded Pump Applications. <i>IEEE Transactions on Industry Applications</i> , 2018, 54, 3260-3270.	4.9	60
31	Thrust Ripple Analysis on Toroidal-Winding Linear Permanent Magnet Vernier Machine. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 9853-9862.	7.9	40
32	Multi-Physics and Multi-Objective Optimization of a High Speed PMSM for High Performance Applications. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-5.	2.1	41
33	Electrical Machines for Automotive Electrically Assisted Turbocharging. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018, 23, 2054-2065.	5.8	34
34	Enhanced Self-Sensing Capability of Permanent-Magnet Synchronous Machines: A Novel Saliency Modulation Rotor End Approach. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 3548-3556.	7.9	9
35	Fault Signal Propagation Through the PMSM Motor Drive Systems. <i>IEEE Transactions on Industry Applications</i> , 2017, 53, 2915-2924.	4.9	5
36	CQICO and Multi-objective Thermal Optimization for High Speed PM Generator. <i>IEEE Transactions on Magnetics</i> , 2017, , 1-1.	2.1	5

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37	Force Characteristic Analysis of a Linear Magnetic Bearing With Rhombus Magnet Array for Magnetic Levitation Positioning System. IEEE Transactions on Magnetics, 2017, 53, 1-7.	2.1	7
38	Self-Excitation and Energy Recovery of Air-Core Compulsators. IEEE Transactions on Plasma Science, 2017, 45, 1168-1174.	1.3	7
39	A Fractional Slot Multiphase Air-Core Compulsator With Concentrated Winding. IEEE Transactions on Plasma Science, 2017, 45, 1387-1393.	1.3	3
40	A Novel Linear Permanent Magnet Vernier Machine With Consequent-Pole Permanent Magnets and Halbach Permanent Magnet Arrays. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	50
41	Holistic electrical machine optimization for system integration. , 2017, , .		5
42	Comparison of torque characteristic between two transverse flux motors with passive external rotor structure. , 2017, , .		3
43	Sensitivity analysis for performance and power density improvements in salient-pole synchronous generators. , 2017, , .		6
44	Investigation of a novel linear permanent magnet vernier motor. , 2017, , .		1
45	Comparative study of double-sided toroidal-winding linear PM vernier machines with different secondary configurations. , 2017, , .		8
46	Thermal investigation on HSPM with new alloy sleeve. , 2017, , .		0
47	Electromagnetic and Mechanical Characteristics Analysis of a Flat-Type Vertical-Gap Passive Magnetic Levitation Vibration Isolator. Shock and Vibration, 2016, 2016, 1-12.	0.6	2
48	A High-Precision Control for a ZVT PWM Soft-Switching Inverter to Eliminate the Dead-Time Effect. Energies, 2016, 9, 579.	3.1	6
49	Armature design of an ultra-high speed PM generator. , 2016, , .		1
50	CQICO and multi-objective thermal optimization for high speed PM generator. , 2016, , .		0
51	A new position loop stiffness testing method for linear motor servo systems. , 2015, , .		1
52	Design and construction of magnetostrictive energy harvester for power generating floor systems. , 2015, , .		7
53	The comparison study of two servo dynamic stiffness definitions in linear motor servo system. , 2015, , .		0
54	Characteristic Analysis and Control of a Hybrid Excitation Linear Eddy Current Brake. Energies, 2015, 8, 7441-7464.	3.1	12

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55	Investigation of Auxiliary Poles Optimal Design on Reduction of End Effect Detent Force for PMLSM With Typical Slot“Pole Combinations. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	26
56	Analytical Methods for Minimizing Detent Force in Long-Stator PM Linear Motor Including Longitudinal End Effects. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	29
57	Investigation of Cross-Coupling Inductances for Long-Stator PM Linear Motor Arranged in Multiple Segments. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	11
58	Nonlinear Analytical Modeling of Hybrid-Excitation Double-Sided Linear Eddy-Current Brake. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	22
59	Modeling and analysis of a novel magnetic levitation gravity compensator. , 2014, , .		0
60	Optimization of a switched reluctance motor with unequal rotor arc width. , 2014, , .		0
61	Characteristic analysis of a novel series magnetic path hybrid excitation linear eddy current brake. , 2014, , .		0
62	Research on a switched reluctance motor with auxiliary rotor teeth. , 2014, , .		1
63	A Three Degree-of-Freedom Short-Stroke Lorentz-Force-Driven Planar Motor Using a Halbach Permanent Magnet Array with Unequal Thickness. IEEE Transactions on Industrial Electronics, 2014, , 1-1.	7.9	22
64	Modeling and Analysis of a New Cylindrical Magnetic Levitation Gravity Compensator with Low Stiffness for the 6-DOF Fine Stage. IEEE Transactions on Industrial Electronics, 2014, , 1-1.	7.9	34
65	Modeling and Analysis of Force Characteristics for Hybrid Excitation Linear Eddy Current Brake. IEEE Transactions on Magnetics, 2014, 50, 1-5.	2.1	23
66	A new inductance measurement method for permanent magnet synchronous linear motor. , 2014, , .		6
67	Research on a Low Stiffness Passive Magnetic Levitation Gravity Compensation System with Opposite Stiffness Cancellation. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	6
68	Design and analysis of a bidirectional cross-linking transverse flux permanent magnet synchronous motor. , 2014, , .		5
69	Analysis and Design of Hybrid Excitation Linear Eddy Current Brake. IEEE Transactions on Energy Conversion, 2014, 29, 496-506.	5.2	37
70	Analysis and comparison of two two-dimensional Halbach permanent magnet arrays for magnetically levitated planar motor. Journal of Applied Physics, 2014, 115, .	2.5	8
71	Bidirectional Cross-Linking Transverse Flux Permanent Magnet Synchronous Motor. IEEE Transactions on Magnetics, 2013, 49, 1242-1248.	2.1	41
72	Characteristic Analysis of a Long-Stroke Synchronous Permanent Magnet Planar Motor. IEEE Transactions on Magnetics, 2012, 48, 4658-4661.	2.1	19

#	ARTICLE	IF	CITATIONS
73	Analytical calculation of the 3D magnetic field created by non-periodic permanent magnet arrays. , 2011, , .		0