

He Zhang

List of Publications by Year in descending order

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73
papers

1,130
citations

394421

19
h-index

414414

32
g-index

73
all docs

73
docs citations

73
times ranked

1256
citing authors

#	ARTICLE	IF	CITATIONS
1	PWM-VSI Fault Diagnosis for a PMSM Drive Based on the Fuzzy Logic Approach. IEEE Transactions on Power Electronics, 2019, 34, 759-768.	7.9	137
2	Evaluating the potential of post-processing kinematic (PPK) georeferencing for UAV-based structure-from-motion (SfM) photogrammetry and surface change detection. Earth Surface Dynamics, 2019, 7, 807-827.	2.4	89
3	A Portable Triboelectric Nanogenerator for Real-Time Respiration Monitoring. Nanoscale Research Letters, 2019, 14, 354.	5.7	61
4	Design and Losses Analysis of a High Power Density Machine for Flooded Pump Applications. IEEE Transactions on Industry Applications, 2018, 54, 3260-3270.	4.9	60
5	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
6	Bidirectional Cross-Linking Transverse Flux Permanent Magnet Synchronous Motor. IEEE Transactions on Magnetics, 2013, 49, 1242-1248.	2.1	41
7	An Accurate Virtual Signal Injection Control of MTPA for an IPMSM With Fast Dynamic Response. IEEE Transactions on Power Electronics, 2018, 33, 7916-7926.	7.9	41
8	Multi-Physics and Multi-Objective Optimization of a High Speed PMSM for High Performance Applications. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	41
9	Thrust Ripple Analysis on Toroidal-Winding Linear Permanent Magnet Vernier Machine. IEEE Transactions on Industrial Electronics, 2018, 65, 9853-9862.	7.9	40
10	Analysis and Design of Hybrid Excitation Linear Eddy Current Brake. IEEE Transactions on Energy Conversion, 2014, 29, 496-506.	5.2	37
11	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
12	Electrical Machines for Automotive Electrically Assisted Turbocharging. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2054-2065.	5.8	34
13	A Contact-Mode Triboelectric Nanogenerator for Energy Harvesting from Marine Pipe Vibrations. Sensors, 2021, 21, 1514.	3.8	32
14	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
15	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
16	Modeling and Analysis of Force Characteristics for Hybrid Excitation Linear Eddy Current Brake. IEEE Transactions on Magnetics, 2014, 50, 1-5.	2.1	23
17	DC Drift Error Mitigation Method for Three-Phase Current Reconstruction With Single Hall Current Sensor. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	23
18	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

#	ARTICLE	IF	CITATIONS
19	Nonlinear Analytical Modeling of Hybrid-Excitation Double-Sided Linear Eddy-Current Brake. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	22
20	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
21	A Review of Computer Vision-Based Structural Deformation Monitoring in Field Environments. Sensors, 2022, 22, 3789.	3.8	20
22	Characteristic Analysis of a Long-Stroke Synchronous Permanent Magnet Planar Motor. IEEE Transactions on Magnetics, 2012, 48, 4658-4661.	2.1	19
23	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
24	A Novel Dual-Consequent-Pole Transverse Flux Motor and Its Analytical Modeling. IEEE Transactions on Industrial Electronics, 2021, 68, 4141-4152.	7.9	14
25	Characteristic Analysis and Control of a Hybrid Excitation Linear Eddy Current Brake. Energies, 2015, 8, 7441-7464.	3.1	12
26	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
27	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
28	Electromagnetic Design of a Dual-Consequent-Pole Transverse Flux Motor. IEEE Transactions on Energy Conversion, 2020, 35, 1547-1558.	5.2	10
29	Enhanced Self-Sensing Capability of Permanent-Magnet Synchronous Machines: A Novel Saliency Modulation Rotor End Approach. IEEE Transactions on Industrial Electronics, 2017, 64, 3548-3556.	7.9	9
30	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
31	Comparative study of double-sided toroidal-winding linear PM vernier machines with different secondary configurations. , 2017, , .		8
32	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
33	Design and construction of magnetostrictive energy harvester for power generating floor systems. , 2015, , .		7
34	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
35	Self-Excitation and Energy Recovery of Air-Core Compulsators. IEEE Transactions on Plasma Science, 2017, 45, 1168-1174.	1.3	7
36	Evaluating the capability of a UAV-borne spectrometer for soil organic carbon mapping in bare croplands. Land Degradation and Development, 2021, 32, 4375-4389.	3.9	7

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37	Recent Progress in Sensing Technology Based on Triboelectric Nanogenerators in Dynamic Behaviors. <i>Sensors</i> , 2022, 22, 4837.	3.8	7
38	A new inductance measurement method for permanent magnet synchronous linear motor. , 2014, , .		6
39	Research on a Low Stiffness Passive Magnetic Levitation Gravity Compensation System with Opposite Stiffness Cancellation. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-4.	2.1	6
40	A High-Precision Control for a ZVT PWM Soft-Switching Inverter to Eliminate the Dead-Time Effect. <i>Energies</i> , 2016, 9, 579.	3.1	6
41	Sensitivity analysis for performance and power density improvements in salient-pole synchronous generators. , 2017, , .		6
42	Design and Analysis of a Novel Linear Vernier Motor with Split Tooth Structure. , 2019, , .		6
43	Design and analysis of a bidirectional cross-linking transverse flux permanent magnet synchronous motor. , 2014, , .		5
44	Fault Signal Propagation Through the PMSM Motor Drive Systems. <i>IEEE Transactions on Industry Applications</i> , 2017, 53, 2915-2924.	4.9	5
45	CQICO and Multi-objective Thermal Optimization for High Speed PM Generator. <i>IEEE Transactions on Magnetics</i> , 2017, , 1-1.	2.1	5
46	Holistic electrical machine optimization for system integration. , 2017, , .		5
47	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
48	A Fractional Slot Multiphase Air-Core Compulsator With Concentrated Winding. <i>IEEE Transactions on Plasma Science</i> , 2017, 45, 1387-1393.	1.3	3
49	Comparison of torque characteristic between two transverse flux motors with passive external rotor structure. , 2017, , .		3
50	Comparison of Toroidal-Winding Linear PM Vernier Machines with Typical Linear Synchronous Machines in Aspect of Thrust Force Characteristics. , 2019, , .		3
51	Design and Analysis of a Novel Modular Electromagnetic Actuator for Micro-Nano Satellite Application. <i>IEEE Transactions on Energy Conversion</i> , 2021, 36, 402-411.	5.2	3
52	Responses of soil respiration to rainfall depth and frequency in semiarid grassland communities. <i>Ecohydrology</i> , 2021, 14, e2326.	2.4	3
53	Electromagnetic and Mechanical Characteristics Analysis of a Flat-Type Vertical-Gap Passive Magnetic Levitation Vibration Isolator. <i>Shock and Vibration</i> , 2016, 2016, 1-12.	0.6	2
54	Modeling and Optimization of a Large-Load Magnetic Levitation Gravity Compensator. <i>IEEE Transactions on Industrial Electronics</i> , 2023, 70, 5055-5064.	7.9	2

#	ARTICLE	IF	CITATIONS
55	Research on a switched reluctance motor with auxiliary rotor teeth. , 2014, , .		1
56	A new position loop stiffness testing method for linear motor servo systems. , 2015, , .		1
57	Armature design of an ultra-high speed PM generator. , 2016, , .		1
58	Investigation of a novel linear permanent magnet vernier motor. , 2017, , .		1
59	Design, Analysis and Test of a Hyperbolic Magnetic Field Voice Coil Actuator for Magnetic Levitation Fine Positioning Stage. Energies, 2019, 12, 1830.	3.1	1
60	Modeling and Analysis of a Large-Load Magnetic Levitation Gravity Compensator. , 2019, , .		1
61	Modelling of a Dual-side Excited Transverse Flux Permanent Magnet Linear Motor. , 2019, , .		1
62	Analysis of a Novel Transverse-flux Machine with Dual-tooth-slot Core Configuration for Direct-drive Applications. , 2019, , .		1
63	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
64	Dynamic Analysis of Metro Train-Monolithic Bed Track System under Tunnel Differential Settlement. Shock and Vibration, 2020, 2020, 1-12.	0.6	1
65	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
66	Model Improvement and Optimal Design of a Large-Load Magnetic Levitation Gravity Compensator. , 2021, , .		1
67	Analytical calculation of the 3D magnetic field created by non-periodic permanent magnet arrays. , 2011, , .		0
68	Modeling and analysis of a novel magnetic levitation gravity compensator. , 2014, , .		0
69	Optimization of a switched reluctance motor with unequal rotor arc width. , 2014, , .		0
70	Characteristic analysis of a novel series magnetic path hybrid excitation linear eddy current brake. , 2014, , .		0
71	The comparison study of two servo dynamic stiffness definitions in linear motor servo system. , 2015, , .		0
72	CQICO and multi-objective thermal optimization for high speed PM generator. , 2016, , .		0

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73	Thermal investigation on HSPM with new alloy sleeve. , 2017, , .		0