

Thomas A Lipo

List of Publications by Year in descending order

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72
papers

1,948
citations

236925

25
h-index

265206

42
g-index

72
all docs

72
docs citations

72
times ranked

1132
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Dual-Stator Axial-Flux Spoke-Type Permanent Magnet Vernier Machine for Direct-Drive Applications. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	134
2	Analysis of a PM Vernier Motor With Spoke Structure. IEEE Transactions on Industry Applications, 2016, 52, 217-225.	4.9	123
3	Optimal Design of a Novel V-Type Interior Permanent Magnet Motor with Assisted Barriers for the Improvement of Torque Characteristics. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	97
4	Principle of Operation and Performance of a Synchronous Machine Employing a New Harmonic Excitation Scheme. IEEE Transactions on Industry Applications, 2015, 51, 3890-3898.	4.9	84
5	Material-Efficient Permanent-Magnet Shape for Torque Pulsation Minimization in SPM Motors for Automotive Applications. IEEE Transactions on Industrial Electronics, 2014, 61, 5779-5787.	7.9	82
6	Comparative Study on Novel Dual Stator Radial Flux and Axial Flux Permanent Magnet Motors With Ferrite Magnets for Traction Application. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	79
7	Design and Analysis of a Novel Brushless Wound Rotor Synchronous Machine. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	78
8	Novel Brushless Wound Rotor Synchronous Machine With Zero-Sequence Third-Harmonic Field Excitation. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	78
9	Analysis of Consequent Pole Spoke Type Vernier Permanent Magnet Machine With Alternating Flux Barrier Design. IEEE Transactions on Industry Applications, 2018, 54, 5918-5929.	4.9	74
10	Torque Pulsation Minimization in Spoke-type Interior Permanent Magnet Motors With Skewing and Sinusoidal Permanent Magnet Configurations. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	58
11	Design and Analysis of a Novel PM-Assisted Synchronous Reluctance Machine With Axially Integrated Magnets by the Finite-Element Method. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	50
12	A Novel Dual-Rotor, Axial Field, Fault-Tolerant Flux-Switching Permanent Magnet Machine With High-Torque Performance. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	48
13	High Torque Density and Low Torque Ripple Shaped-Magnet Machines Using Sinusoidal Plus Third Harmonic Shaped Magnets. IEEE Transactions on Industry Applications, 2019, 55, 2601-2610.	4.9	48
14	Extension of the Operating Region of an IPM Motor Utilizing Series Compensation. IEEE Transactions on Industry Applications, 2014, 50, 539-548.	4.9	46
15	Performance Improvement of Ferrite-Assisted Synchronous Reluctance Machines Using Asymmetrical Rotor Configurations. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	43
16	Optimal Design of a Grid-Connected-to-Rotor Type Doubly Fed Induction Generator for Wind Turbine Systems. IEEE Transactions on Magnetics, 2012, 48, 3124-3127.	2.1	37
17	An Improved Direct Decoupled Power Control of Doubly Fed Induction Machine Without Rotor Position Sensor and With Robustness to Parameter Variation. IEEE Transactions on Energy Conversion, 2012, 27, 873-884.	5.2	37
18	Improved Direct Torque Control for a DFIG under Symmetrical Voltage Dip With Transient Flux Damping. IEEE Transactions on Industrial Electronics, 2020, 67, 28-37.	7.9	36

#	ARTICLE	IF	CITATIONS
19	Design of an Improved Dual-Stator Ferrite Magnet Vernier Machine to Replace an Industrial Rare-Earth IPM Machine. IEEE Transactions on Energy Conversion, 2019, 34, 2062-2069.	5.2	34
20	A 32 000 r/min Axial Flux Permanent Magnet Machine for Energy Storage With Mechanical Stress Analysis. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	33
21	Cost-Effective High Torque Density Bi-Magnet Machines Utilizing Rare Earth and Ferrite Permanent Magnets. IEEE Transactions on Energy Conversion, 2020, 35, 1577-1584.	5.2	33
22	Design and Analysis of a Novel Grid-Connected to Rotor Type Doubly Fed Induction Machine. IEEE Transactions on Magnetics, 2012, 48, 919-922.	2.1	31
23	A New Hybrid Permanent Magnet Synchronous Reluctance Machine With Axially Sandwiched Magnets for Performance Improvement. IEEE Transactions on Energy Conversion, 2018, 33, 2018-2029.	5.2	31
24	EFFECT OF SATURATION THIRD HARMONIC ON THE PERFORMANCE OF SQUIRREL-CAGE INDUCTION MACHINES. Electric Power Components and Systems, 1994, 22, 155-171.	0.1	30
25	Dual-stator Interior Permanent Magnet Vernier Machine Having Torque Density and Power Factor Improvement. Electric Power Components and Systems, 2014, 42, 1717-1726.	1.8	26
26	PM Assisted, Brushless Wound Rotor Synchronous Machine. Journal of Magnetics, 2016, 21, 399-404.	0.4	25
27	Optimal Design of a Novel Asymmetrical Rotor Structure to Obtain Torque and Efficiency Improvement in Surface Inset PM Motors. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	24
28	Synchronous motor drives-a forgotten option. , 2015, , .		23
29	A Novel Technique for Two-Phase BLDC Motor to Avoid Demagnetization. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	23
30	Rotor Pole Optimization of Novel Axial-Flux Brushless Doubly Fed Reluctance Machine for Torque Enhancement. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	23
31	Reducing Torque Ripple Using Axial Pole Shaping in Interior Permanent Magnet Machines. IEEE Transactions on Industry Applications, 2020, 56, 148-157.	4.9	22
32	High torque density ferrite permanent magnet vernier motor analysis and design with demagnetization consideration. , 2015, , .		21
33	Design and Optimization of a Novel Wound Field Synchronous Machine for Torque Performance Enhancement. Energies, 2018, 11, 2111.	3.1	21
34	A Novel Two-Phase Permanent Magnet Synchronous Motor Modeling for Torque Ripple Minimization. IEEE Transactions on Magnetics, 2013, 49, 2355-2358.	2.1	19
35	Optimal Design of a Spoke-type Permanent Magnet Motor with Phase-group Concentrated-coil Windings to Minimize Torque Pulsations. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	18
36	A novel topology for a voltage source inverter with reduced transistor count and utilizing naturally commutated thyristors with simple commutation. , 2014, , .		16

#	ARTICLE	IF	CITATIONS
37	Design of Novel Axial-Flux Dual Stator Doubly Fed Reluctance Machine. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	16
38	Design of Ultrahigh Speed Axial-Flux Permanent Magnet Machine With Sinusoidal Back EMF for Energy Storage Application. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	16
39	Dual-Stator Two-Phase Permanent Magnet Machines With Phase-Group Concentrated-Coil Windings for Torque Enhancement. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	16
40	Efficiency improvement and evaluation of floating capacitor open-winding PM motor drive for EV application. , 2014, , .		15
41	Interior permanent magnet machines with rare earth and ferrite permanent magnets. , 2017, , .		15
42	Dual Third-Harmonic-Current Excitation Principle of a Brushless Synchronous Machine Based on Double Three-Phase Armature Windings. , 2019, , .		15
43	A Novel Sub-Harmonic Synchronous Machine Using Three-Layer Winding Topology. World Electric Vehicle Journal, 2022, 13, 16.	3.0	15
44	A novel two-layer winding topology for sub-harmonic synchronous machines. Electrical Engineering, 2022, 104, 3027-3035.	2.0	13
45	Experimental verification of winding switching technique to enhance maximum speed operation of surface mounted permanent magnet machines. IET Electric Power Applications, 2016, 10, 294-303.	1.8	12
46	Line-interactive Uninterruptible Power Supply System Eliminating the Inrush Current Phenomenon. Electric Power Components and Systems, 2016, 44, 1203-1214.	1.8	11
47	Novel matrix converter topologies with reduced transistor count. , 2014, , .		10
48	Extension of the operating region of an IPM motor utilizing series compensation. , 2012, , .		9
49	Novel field weakening technique for Surface Mounted Permanent Magnet machine using Current Regulated Voltage Source Inverters. , 2014, , .		9
50	Improved use of rare Earth permanent magnet materials and reduction of torque pulsation in interior permanent magnet machines. , 2015, , .		9
51	Asymmetrical Fault Correction for the Sensitive Loads Using a Current Regulated Voltage Source Inverter. Energies, 2016, 9, 196.	3.1	8
52	Comparison of AC Motors to an Ideal Machine Part I-Conventional AC Machines. , 2018, , .		7
53	Comparison of AC Motors to an Ideal Machine Part II-Conventional AC Machines. IEEE Transactions on Industry Applications, 2020, 56, 1346-1355.	4.9	7
54	Saliency enhancement of salient pole wound field synchronous machines for variable speed applications. , 2017, , .		6

#	ARTICLE	IF	CITATIONS
55	An on-line UPS system that eliminates the inrush current phenomenon while feeding multiple load transformers. , 2015, , .		5
56	Optimization design of stator harmonic windings in brushless synchronous machine excited with double-harmonic-windings. , 2017, , .		5
57	Comparison of AC Motors to an Ideal Machine Part II-Non-Sinusoidal AC Machines. , 2019, , .		5
58	Dual airgap stator- and rotor- permanent magnet machines with spoke-type configurations using phase-group concentrated-coil windings. , 2015, , .		4
59	An improved rotor design for dual-stator vernier ferrite permanent magnet machines. , 2017, , .		4
60	Torque Ripple Minimization in Interior Permanent Magnet Machines Using Axial Pole Shaping. , 2018, , .		4
61	Comparison of AC Motors to an Ideal Machine Part II“Non-Sinusoidal AC Machines. IEEE Transactions on Industry Applications, 2020, 56, 4727-4737.	4.9	4
62	A STRATEGY TO ISOLATE A SWITCHING DEVICE FAULT IN A CURRENT REGULATED MOTOR DRIVE. Electric Power Components and Systems, 1996, 24, 911-920.	0.1	3
63	A novel cascaded two transistor H-bridge multilevel voltage source converter topology. , 2015, , .		3
64	Permanent magnet material and pulsating torque minimization in spoke type interior PM machines. , 2016, , .		3
65	Design and Excitation Control of a Dual Three-Phase Zero-Sequence Current Starting Scheme for Integrated Starter/Generator. IEEE Transactions on Industry Applications, 2021, 57, 3776-3786.	4.9	3
66	Dynamics and vector control of wound-rotor brushless doubly fed induction machines. , 2014, , .		2
67	Optimal design of a spoke-type permanent magnet motor with phase-group concentrated-coil windings to minimize torque pulsations. , 2016, , .		2
68	Development and test of a dual-stator, spoke-type ferrite permanent magnet motor with high torque performance for direct-drive applications. , 2016, , .		2
69	High torque density and low torque ripple surface permanent magnet machines with sinusoidal plus third harmonic shaped magnets. , 2017, , .		2
70	Synchronous machine field excitation utilizing a single phase matrix converter excited rotary transformer. , 2017, , .		2
71	Enhancement of Inertial Response of an Isolated Microgrid with High Inertia Induction Motors. , 2019, , .		1
72	Design and analysis of a novel PM-assisted synchronous reluctance machine with axially integrated magnets by finite element method. , 2016, , .		0