

Ngac Ky Nguyen

List of Publications by Year in descending order

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53
papers

725
citations

840776

11
h-index

752698

20
g-index

54
all docs

54
docs citations

54
times ranked

736
citing authors

#	ARTICLE	IF	CITATIONS
1	A Self-Learning Solution for Torque Ripple Reduction for Nonsinusoidal Permanent-Magnet Motor Drives Based on Artificial Neural Networks. IEEE Transactions on Industrial Electronics, 2014, 61, 655-666.	7.9	148
2	Fault-Tolerant Operation of an Open-End Winding Five-Phase PMSM Drive With Short-Circuit Inverter Fault. IEEE Transactions on Industrial Electronics, 2016, 63, 595-605.	7.9	145
3	Real-Time Switches Fault Diagnosis Based on Typical Operating Characteristics of Five-Phase Permanent Magnetic Synchronous Machines. IEEE Transactions on Industrial Electronics, 2016, , 1-1.	7.9	60
4	Experimental Investigation of Inverter Open-Circuit Fault Diagnosis for Biharmonic Five-Phase Permanent Magnet Drive. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 339-351.	5.4	38
5	Dual-Multiphase Motor Drives for Fault-Tolerant Applications: Power Electronic Structures and Control Strategies. IEEE Transactions on Power Electronics, 2018, 33, 572-580.	7.9	31
6	Fault-tolerant operation of an open-end winding five-phase PMSM drive with inverter faults. , 2013, , .		25
7	Torque ripple minimization in non-sinusoidal synchronous reluctance motors based on artificial neural networks. Electric Power Systems Research, 2016, 140, 37-45.	3.6	23
8	Variable speed control of a 5-phase permanent magnet synchronous generator including voltage and current limits in healthy and open-circuited modes. Electric Power Systems Research, 2016, 140, 507-516.	3.6	19
9	Integrated Traction/Charge/Air Compression Supply Using Three-Phase Split-Windings Motor for Electric Vehicles. IEEE Transactions on Power Electronics, 2018, 33, 10003-10012.	7.9	16
10	Control strategies for non-sinusoidal multiphase PMSM drives in faulty modes under constraints on copper losses and peak phase voltage. IET Electric Power Applications, 2019, 13, 1743-1752.	1.8	15
11	Neural networks for phase and symmetrical components estimation in power systems. , 2009, , .		14
12	Model predictive optimal control considering current and voltage limitations: Real-time validation using OPAL-RT technologies and five-phase permanent magnet synchronous machines. Mathematics and Computers in Simulation, 2019, 158, 148-161.	4.4	12
13	Fault-Tolerant Control for Nonsinusoidal Multiphase Drives With Minimum Torque Ripple. IEEE Transactions on Power Electronics, 2022, 37, 6290-6304.	7.9	12
14	A Novel Five-Phase Fractional Slot Concentrated Winding with Low Space Harmonic Contents. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	11
15	Harmonics Identification with Artificial Neural Networks: Application to Active Power Filtering. International Journal of Emerging Electric Power Systems, 2011, 12, .	0.8	10
16	Adaline for Online Symmetrical Components and Phase-Angles Identification in Transmission Lines. IEEE Transactions on Power Delivery, 2012, 27, 1134-1143.	4.3	10
17	Open Switch Fault effects analysis in five-phase PMSM designed for aerospace application. , 2016, , .		10
18	A signal-based technique for fault detection and isolation of inverter faults in multi-phase drives. , 2012, , .		9

#	ARTICLE	IF	CITATIONS
19	Maximum torque per ampere control strategy of a 5-phase PM generator in healthy and faulty modes for tidal marine turbine application. , 2014, , .		9
20	Analytical optimal currents for multiphase PMSMs under fault conditions and saturation. , 2014, , .		8
21	Optimal efficiency control of synchronous reluctance motors-based ANN considering cross magnetic saturation and iron losses. , 2015, , .		8
22	Adaline for fault detection in Electrical High Voltage transmission line. , 2010, , .		7
23	Fault-Tolerant Optimal-Current Torque-Controlled Five-Phase PMSMs with Open-Circuited Phases: Position Self-Sensing Operation. , 2014, , .		7
24	Open-switch and open-phase real time FDI process for multiphase PM Synchronous Motors. , 2016, , .		7
25	Artificial neural networks for harmonic currents identification in active power filtering schemes. , 2008, , .		6
26	Adaline Neural Networks-based sensorless control of five-phase PMSM drives. , 2016, , .		6
27	An Overview of Methods using Reduced-Ordered Transformation Matrices for Fault-Tolerant Control of 5-phase Machines with an Open Phase. , 2019, , .		6
28	A comparative experimental study of neural and conventional controllers for an active power filter. , 2010, , .		5
29	Fault tolerant dual-motor drives: Sizing of power electronic. , 2015, , .		5
30	A comparative study of two fault-tolerant dual-motor drive topologies under short-circuit inverter switch fault. , 2015, , .		4
31	Inverter open circuit faults diagnosis in series-connected six-phases permanent magnet drive. , 2017, , .		4
32	Torque Optimization of a Seven-Phase Bi-harmonic PMSM in Healthy and Degraded Mode. , 2019, , .		4
33	Optimal torque/speed characteristics of a Five-Phase Synchronous Machine under Peak or RMS current control strategies. , 2020, , .		4
34	FPGA resources reduction with multiplexing technique for implementation of ANN-based harmonics extraction by mp-q method. , 2010, , .		3
35	Torque optimisation of seven-êphase BLDC machines in normal and degraded modes with constraints on current and voltage. Journal of Engineering, 2019, 2019, 3818-3824.	1.1	3
36	Fault-tolerant Control for 7-phase Non-sinusoidal Permanent Magnet Machines with One Opened Phase. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
37	Enhancement of Sensorless Control for Non-Sinusoidal Multiphase Drives-Part I: Operation in Medium and High-Speed Range. <i>Energies</i> , 2022, 15, 607.	3.1	3
38	Adaline-Based Control Schemes for Non-Sinusoidal Multiphase Drives“Part I: Torque Optimization for Healthy Mode. <i>Energies</i> , 2021, 14, 8302.	3.1	3
39	Low Speed Sensorless Control of Non-Salient Poles Multiphase PMSM. , 2019, , .		2
40	Inductance Identification of Synchronous Reluctance Motors Using Capacitor Discharge Method. , 2019, , .		2
41	Eliminations of Low-frequency Current Harmonics for Five-phase Open-end Winding Non-sinusoidal Machine Drives applying Neural Networks. , 2020, , .		2
42	An investigation of Adaline for torque ripple minimization in Non-Sinusoidal Synchronous Reluctance Motors. , 2013, , .		1
43	Investigation on model predictive control of a five-phase permanent magnet synchronous machine under voltage and current limits. , 2015, , .		1
44	Performances comparison of different concentrated-winding configurations for 5-phase PMSC in normal and faulty modes in flux weakening operation for fixed pitch tidal turbines. , 2016, , .		1
45	New Electrical Inversed-Series Connection for Even-Phase Symmetrical PMSMs. <i>IEEE Transactions on Power Electronics</i> , 2018, 33, 7938-7947.	7.9	1
46	Inverter fault diagnosis of an electrical series“connected two sinusoidal six“phase permanent magnet machines drive. <i>IET Electric Power Applications</i> , 2020, 14, 1412-1420.	1.8	1
47	Adaline-Based Control Schemes for Non-Sinusoidal Multiphase Drives“Part II: Torque Optimization for Faulty Mode. <i>Energies</i> , 2022, 15, 249.	3.1	1
48	Adaptive neural schemes for the control of a shunt active power filter. , 2009, , .		0
49	Adaline for symmetrical components detection in High Voltage transmission line faults. , 2011, , .		0
50	Five-phase Bi-harmonic PMSM control under voltage and currents limits. , 2017, , .		0
51	Sensitivity of Torque Control for Seven-phase BLDC Machine with One Opened Phase under Constraints on Voltage and Current. , 2018, , .		0
52	Electric Vehicles Driven by 5-Phase Open-End Winding Machines Fed by Battery and Supercapacitors. , 2019, , .		0
53	Torque Ripple Eliminations for Multiphase Nonsinusoidal Permanent Magnet Synchronous Machines. , 2021, , .		0