Ibrahim Mohd Alsofyani

List of Publications by Year
in descending order

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37	598	949033 11	721071 23
papers	citations	h-index	g-index

37	37	37	475
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Three-level inverter-fed model predictive torque control of a permanent magnet synchronous motor with discrete space vector modulation and simplified neutral point voltage balancing. Journal of Power Electronics, 2022, 22, 22-30.	0.9	7
2	A Unidirectional Voltage Vector Preselection Strategy for Optimizing Model Predictive Torque Control With Discrete Space Vector Modulation of IPMSM. IEEE Transactions on Industrial Electronics, 2022, 69, 12305-12315.	5.2	19
3	Detection of Open-Circuit Faults in Multi-Level Hybrid Active Neutral Point Clamped Inverters. Journal of Electrical Engineering and Technology, 2022, 17, 2299-2307.	1.2	3
4	Fault Diagnosis and Tolerance for Open-circuit Faults in Multi-Level Inverters. , 2022, , .		5
5	Hardware implementation for hybrid active NPC converters using FPGA-based dual pulse width modulation. Journal of Power Electronics, 2021, 21, 1669-1679.	0.9	7
6	Simple Capacitor Voltage Balancing for Three-Level NPC Inverter Using Discontinuous PWM Method With Hysteresis Neutral-Point Error Band. IEEE Transactions on Power Electronics, 2021, 36, 12490-12503.	5.4	29
7	Multi Open-/Short-Circuit Fault-Tolerance Using Modified SVM Technique for Three-Level HANPC Converters. IEEE Transactions on Power Electronics, 2021, 36, 13621-13633.	5.4	24
8	Open Circuit Fault Diagnosis for Multi-Level Inverters Using An Improved Current Distortion Method. , 2021, , .		4
9	Improved Transient-Based Overmodulation Method for Increased Torque Capability of Direct Torque Control With Constant Torque-Switching Regulator of Induction Machines. IEEE Transactions on Power Electronics, 2020, 35, 3928-3938.	5.4	13
10	Low-Speed Performance Improvement of Direct Torque Control for Induction Motor Drives Fed by Three-Level NPC Inverter. Electronics (Switzerland), 2020, 9, 77.	1.8	11
11	Predictive Torque Control With Simple Duty-Ratio Regulator of PMSM for Minimizing Torque and Flux Ripples. IEEE Access, 2020, 8, 2373-2381.	2.6	22
12	Enhanced Performance of Constant Frequency Torque Controllerâ€“Based Direct Torque Control of Induction Machines with Increased Torque-Loop Bandwidth. IEEE Transactions on Industrial Electronics, 2020, 67, 10168-10179.	5.2	23
13	Multiple-Fault-Tolerant Strategy for Three-Phase Hybrid Active Neutral Point Clamped Converters Using Enhanced Space Vector Modulation Technique. IEEE Access, 2020, 8, 180113-180123.	2.6	10
14	Predictive Torque Control Based on Discrete Space Vector Modulation of PMSM without Flux Error-Sign and Voltage-Vector Lookup Table. Electronics (Switzerland), 2020, 9, 1542.	1.8	9
15	Improved Finite Set-Predictive Torque Control of PMSM Fed by Indirect Matrix Converter with Discrete Space Vector Modulation. Electronics (Switzerland), 2020, 9, 2133.	1.8	5
16	Open-Circuit Fault Tolerance Method for Three-Level Hybrid Active Neutral Point Clamped Converters. Electronics (Switzerland), 2020, 9, 1535.	1.8	10
17	Finite Set Predictive Torque Control Based on Sub-divided Voltage Vectors of PMSM with Deadbeat Control and Discrete Space Vector Modulation. , 2019, , .		6
18	Evaluation of Direct Torque Control with a Constant-Frequency Torque Regulator under Various Discrete Interleaving Carriers. Electronics (Switzerland), 2019, 8, 820.	1.8	7

#	Article	IF	Citations
19	Improved Deadbeat FC-MPC Based on the Discrete Space Vector Modulation Method with Efficient Computation for a Grid-Connected Three-Level Inverter System. Energies, 2019, 12, 3111.	1.6	7
20	Impact of Observability and Multi-objective Optimization on the Performance of Extended Kalman Filter for DTC of AC Machines. Journal of Electrical Engineering and Technology, 2019, 14, 231-242.	1.2	12
21	Fast Torque Control and Minimized Sector-Flux Droop for Constant Frequency Torque Controller Based DTC of Induction Machines. IEEE Transactions on Power Electronics, 2019, 34, 12141-12153.	5.4	28
22	A Modified Flux Regulation Method to Minimize Switching Frequency and Improve DTC-Hysteresis-Based Induction Machines in Low-Speed Regions. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 2346-2355.	3.7	11
23	Improved Constant Switching Frequency Torque Regulator based DTC of IM Fed by 3L-NPC Inverter for Wide Speed Region. , 2019, , .		3
24	Direct Torque Control of IM Fed by 3L-NPC Inverter with Simple Flux Regulation Technique. , 2019, , .		1
25	A New Unity-Gain 5-Level Active Neutral-Point-Clamped (UG-5L-ANPC) Inverter. , 2019, , .		10
26	Torque Ripple Reduction and Flux-Droop Minimization of DTC With Improved Interleaving CSFTC of IM Fed by Three-Level NPC Inverter. IEEE Access, 2019, 7, 184266-184275.	2.6	15
27	Improved Switched-Capacitor Integrated Multilevel Inverter With a DC Source String. IEEE Transactions on Industry Applications, 2019, 55, 7368-7376.	3.3	66
28	Dynamic Hysteresis Torque Band for Improving the Performance of Lookup-Table-Based DTC of Induction Machines. IEEE Transactions on Power Electronics, 2018, 33, 7959-7970.	5.4	56
29	DC-link Ripple Reduction in a DPWM-Based Two-Level VSI. Energies, 2018, 11, 3008.	1.6	6
30	Improved Over Modulation Strategy in DTC with Constant Frequency Torque Controller of PMSM for Quick Torque Control at Different Dynamic Conditions. , 2018, , .		2
31	DC-link Ripple Reduction in a DPWM-based Two-Level VSC. , 2018, , .		6
32	Improved Performance of CFTC-based Direct Torque Control of Induction Machines by Increasing Torque Loop Bandwidth. , 2018, , .		1
33	Lookup-Table-Based DTC of Induction Machines With Improved Flux Regulation and Extended Kalman Filter State Estimator at Low-Speed Operation. IEEE Transactions on Industrial Informatics, 2016, 12, 1412-1425.	7.2	46
34	Torque ripple reduction and fast torque control in DTC of induction machine using overlapping triangular-based constant frequency torque controller. , 2016, , .		6
35	Simple Flux Regulation for Improving State Estimation at Very Low and Zero Speed of a Speed Sensorless Direct Torque Control of an Induction Motor. IEEE Transactions on Power Electronics, 2016, 31, 3027-3035.	5.4	106
36	Experimental Evaluation of Torque Performance of Voltage and Current Models using Measured Torque for Induction Motor Drives. International Journal of Power Electronics and Drive Systems, 2015, 5, 433.	0.5	1

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37	Comparison of Estimated Torques Using Low Pass Filter and Extended Kalman Filter for Induction Motor Drives. International Journal of Power Electronics and Drive Systems, 2015, 6, 92.	0.5	1