Rijil Ramchand

List of Publications by Year in Descending Order

51 papers	568 citations	13 h-index	23 g-index
82 ext. papers	776 ext. citations	5 avg, IF	3.97 L-index

#	Paper	IF	Citations
51	Investigations on STATCOM using current error space phasor based modified hysteresis current controller. *IET Generation, Transmission and Distribution*, **2021**, 15, 1094-1106	2.5	
50	Quantitative Feedback Design-Based Robust PID Control of Voltage Mode Controlled DC-DC Boost Converter. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2021**, 68, 286-290	3.5	14
49	Analysis of Current Error Space Phasor for a Space Vector Modulated Indirect Matrix Converter. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	2
48	A Composite Strategy for Improved Power Quality Using Micro Compensators in Secondary Distribution Systems. *IEEE Transactions on Power Delivery*, **2021**, 1-1	4.3	2
47	Current Error Space Vector Based Hysteresis Controller for VSI Fed PMSM Drive. *IEEE Transactions on Power Electronics*, **2020**, 35, 10690-10699	7.2	4
46	Novel Hysteresis Regulation Strategy for a Two-level Inverter Fed Induction Motor Drive to Achieve Nearly Constant Switching Frequency. *IETE Journal of Research*, **2020**, 1-13	0.9	
45	An adaptive control strategy for single-phase cascaded H-bridge multilevel inverter under distorted load conditions. *Electrical Engineering*, **2020**, 102, 1051-1062	1.5	1
44	Vector Control of Space Vector based Hybrid PWM fed IM Drive with reduced torque ripple **2020**,		1
43	Online Boundary Computation Using Sampled Voltage Reference for Bus Clamping PWM-Based Hysteresis-Controlled VSI-Fed IM Drive. *IEEE Transactions on Power Electronics*, **2020**, 35, 3939-3950	7.2	5
42	A New Space Vector Pulse Width Modulation Technique for Single-Phase Seven-Level Inverter with Reduced Number of Switches. *IETE Journal of Research*, **2019**, 1-14	0.9	3
41	Vibration signal based condition monitoring of mechanical equipment with scattering transform. *Journal of Mechanical Science and Technology*, **2019**, 33, 3095-3103	1.6	5
40	Nearly Constant Switching Frequency Hysteresis Current Controller for Multilevel Inverter based STATCOM **2019**,		1
39	Space Vector PWM Scheme for Three Phase Three Level T-type NPC Inverter **2019**,		1
38	A Low Cost Development Tool for Educating Electric Machines **2019**,		1
37	Comparative Analysis of Different Modulation Techniques for Three Level Three Phase T-type NPC Inverter **2019**,		2
36	. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 4542-4552	8.9	23
35	Nearly Constant Switching Space Vector Based Hysteresis Controller for VSI Fed IM Drive. *IEEE Transactions on Industry Applications*, **2018**, 54, 3360-3371	4.3	13

34	Current error boundary analysis of constant switching frequency voltage controlled three level VSI Fed IM drive **2018**,	2
33	Comparative Analysis of Hysteresis Current Control Strategies to Achieve Nearly Constant Switching Frequency for a Two- Level Inverter Fed IM Drive **2018**,	2
32	A new control strategy for single phase cascaded H bridge multilevel inverter in stationary reference frame with nonlinear loads **2018**,	1
31	Improved switching frequency variation control in hysteresis controlled VSI-fed induction motor drives for reduced line current ripple **2017**,	3
30	Analysis and validation of reactive power compensation by transformerless multilevel inverterusing SPWM and modified SVPWM strategies **2017**,	1
29	Peak-to-peak torque ripple reduction and switching frequency variation control in hysteresis controlled VSI-Fed IM drives **2017**,	1
28	Online computation of error band for hysteresis current controlled reactive current compensators **2016**,	1
27	Nearly constant switching frequency hysteresis controller for VSI fed IM drives based on Current Error Space Vector **2016**,	3
26	A simple and low cost generalised modulation technique for neutral point clamped multilevel inverters **2016**,	1
25	Carrier based space vector modulation for Matrix Converters **2016**,	1
24	Space vector based hybrid PWM for VSI fed variable speed induction motor drives **2016**,	4
23	Reduced current harmonics in the NPC inverter with a novel space vector PWM **2015**,	2
22	Modeling and simulation of a novel solar PV/ battery hybrid energy system with a single phase five level inverter **2015**,	2
21	Control of a novel single phase grid connected solar PV/battery hybrid energy system **2015**,	3
20	Current error space vector based constant switching frequency hysteresis controller for VSI fed Induction Motor drives **2015**,	10
19	An improved space vector PWM method for a three-level inverter with reduced THD **2015**,	6
18	Constant switching frequency DTC for induction motor fed from two level voltage source inverter **2014**,	1
17	A Space-Vector-Based Hysteresis Current Controller for a General n-Level Inverter-Fed Drive With Nearly Constant Switching Frequency Control. *IEEE Transactions on Industrial Electronics*, **2013**, 60, 1989-1998	39

16	Fast Direct Torque Control of an Open-End Induction Motor Drive Using 12-Sided Polygonal Voltage Space Vectors. *IEEE Transactions on Power Electronics*, **2012**, 27, 400-410	7.2	51
15	Online Computation of Hysteresis Boundary for Constant Switching Frequency Current-Error Space-Vector-Based Hysteresis Controller for VSI-Fed IM Drives. *IEEE Transactions on Power Electronics*, **2012**, 27, 1521-1529	7.2	37
14	Nearly constant switching frequency hysteresis current controller for general n-level inverter fed induction motor drive **2011**,		3
13	A Seven-Level Inverter Topology for Induction Motor Drive Using Two-Level Inverters and Floating Capacitor Fed H-Bridges. *IEEE Transactions on Power Electronics*, **2011**, 26, 1733-1740	7.2	33
12	A Rotor Flux Estimation During Zero and Active Vector Periods Using Current Error Space Vector From a Hysteresis Controller for a Sensorless Vector Control of IM Drive. *IEEE Transactions on Industrial Electronics*, **2011**, 58, 2334-2344	8.9	24
11	An asymmetric cascaded H-Bridge inverters for generating 12-sided polygonal space vector diagrams for Motor drives. *EPE Journal (European Power Electronics and Drives Journal)*, **2011**, 21, 21-28	0.4	3
10	A Five-Level Inverter Scheme for a Four-Pole Induction Motor Drive by Feeding the Identical Voltage-Profile Windings From Both Sides. *IEEE Transactions on Industrial Electronics*, **2010**, 57, 2776-2784	8.9	33
9	A current error space vector based hysteresis controller with constant switching frequency and simple online boundary computation for VSI fed IM drive **2010**,		7
8	Two Different Schemes for Three-Level Voltage Space Vector Generation for Induction Motor Drives with Reduced DC-Link Voltage. *EPE Journal (European Power Electronics and Drives Journal)*, **2010**, 20, 5-12	0.4	2
7	A Hybrid Multilevel Inverter Topology for an Open-End Winding Induction-Motor Drive Using Two-Level Inverters in Series With a Capacitor-Fed H-Bridge Cell. *IEEE Transactions on Industrial Electronics*, **2010**, 57, 3707-3714	8.9	71
6	A simple five-level inverter topology for induction motor drive using conventional two-level inverters and flying capacitor technique **2009**,		5
5	A Pulsewidth Modulated Control of Induction Motor Drive Using Multilevel 12-Sided Polygonal Voltage Space Vectors. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 2441-2449	8.9	20
4	A three level voltage space vector generation for open end winding IM using single voltage source driven dual two-level inverter **2009**,		8
3	A Dual Seven-Level Inverter Supply for an Open-End Winding Induction Motor Drive. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 1665-1673	8.9	76
2	A Combination of Hexagonal and 12-Sided Polygonal Voltage Space Vector PWM Control for IM Drives Using Cascaded Two-Level Inverters. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 1657-1664	8.9	27
1	Space vector PWM-based current error boundary investigations for three-level VSI fed induction motor drive. *International Transactions on Electrical Energy Systems*,e13228	2.2	