

M F Rahman

List of Publications by Year in descending order

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30
papers

1,288
citations

840776

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30
times ranked

1035
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensorless Sliding-Mode MTPA Control of an IPM Synchronous Motor Drive Using a Sliding-Mode Observer and HF Signal Injection. IEEE Transactions on Industrial Electronics, 2010, 57, 1270-1278.	7.9	305
2	Direct Torque Control of an IPM-Synchronous Motor Drive at Very Low Speed Using a Sliding-Mode Stator Flux Observer. IEEE Transactions on Power Electronics, 2010, 25, 933-942.	7.9	164
3	Design and Analysis of an Interior Permanent Magnet (IPM) Machine With Very Wide Constant Power Operation Range. IEEE Transactions on Energy Conversion, 2008, 23, 25-33.	5.2	121
4	An Adaptive Sliding Stator Flux Observer for a Direct-Torque-Controlled IPM Synchronous Motor Drive. IEEE Transactions on Industrial Electronics, 2007, 54, 2398-2406.	7.9	105
5	Rotor Position and Speed Estimation of a Variable Structure Direct-Torque-Controlled IPM Synchronous Motor Drive at Very Low Speeds Including Standstill. IEEE Transactions on Industrial Electronics, 2010, 57, 3715-3723.	7.9	101
6	Design and Experimental Verification of an 18-Slot/14-pole Fractional-Slot Concentrated Winding Interior Permanent Magnet Machine. IEEE Transactions on Energy Conversion, 2013, 28, 181-190.	5.2	97
7	Low-Speed and Standstill Operation of a Sensorless Direct Torque and Flux Controlled IPM Synchronous Motor Drive. IEEE Transactions on Energy Conversion, 2010, 25, 25-33.	5.2	81
8	Comparison of a Sliding Observer and a Kalman Filter for Direct-Torque-Controlled IPM Synchronous Motor Drives. IEEE Transactions on Industrial Electronics, 2012, 59, 4179-4188.	7.9	78
9	Winding Inductances of an Interior Permanent Magnet (IPM) Machine With Fractional Slot Concentrated Winding. IEEE Transactions on Magnetics, 2012, 48, 4842-4849.	2.1	65
10	Performance of a Sensorless Controlled Concentrated-Wound Interior Permanent-Magnet Synchronous Machine at Low and Zero Speed. IEEE Transactions on Industrial Electronics, 2016, 63, 2016-2026.	7.9	35
11	A Matrix-Source Converter With AC-DC Bidirectional Power Flow for an Integrated Starter Alternator System. IEEE Transactions on Industry Applications, 2009, 45, 239-248.	4.9	29
12	Deep flux weakening control of a segmented interior permanent magnet synchronous motor with maximum torque per voltage control. , 2015, , .		22
13	Comparative performance analysis of field-oriented control and direct torque control for a fractional-slot concentrated winding interior permanent magnet synchronous machine. , 2012, , .		16
14	Field weakening performance of a concentrated wound PM machine with rotor and magnet geometry variation. , 2010, , .		14
15	Improved low speed performance of a PI-DTC interior PM machine with compensations of dead-time effects and forward voltage drops. , 2007, , .		8
16	Evaluation of velocity servo performance of IMPSM drive under high-performance sensorless operation. , 2011, , .		6
17	Comparison of torque control bandwidth of HF injection, SMO and FPE Direct Torque control IPMSM drives. , 2014, , .		6
18	A New Mechanical-Strength-Oriented Rotor Parametric Model Design for the Optimization of a Very-High-Speed IPMSM. , 2019, , .		6

#	ARTICLE	IF	CITATIONS
19	Experimental verification of core and magnet losses in a concentrated wound IPM machine with V-shaped magnets used in field weakening applications. , 2011, , .		5
20	Sensorless direct torque control of a fractional-slot concentrated winding interior permanent magnet synchronous machine using extended rotor flux model. , 2012, , .		4
21	Investigating characteristics of a concentrated-winding interior permanent magnet synchronous machine for sensorless direct torque control. , 2013, , .		4
22	Experimental verification of open circuit parameters of an IPM machine with concentrated windings. , 2011, , .		3
23	Performance comparison between concentrated and distributed wound IPM machines used for field weakening applications. , 2011, , .		3
24	The preliminary results on Direct Torque Control for an fractional-slot concentrated winding Interior Permanent Magnet Synchronous Machine. , 2012, , .		3
25	Investigation of sensorless direct torque control using high frequency injection apply to a fractional-slot concentrated winding interior PMSM. , 2013, , .		2
26	Converters with high boost, energy storage and bi-directional power flow in energy systems. , 2016, , .		2
27	An extended rotor flux model for sensorless direct torque and flux control of IPM synchronous motor drives. , 2009, , .		1
28	Direct torque and flux controlled IPM synchronous motor drive using a hybrid signal injection and adaptive sliding mode observer. , 2009, , .		1
29	Improved Sensorless Direct Torque and Flux Control of IPMSM based on On-line Parameter Estimation. , 2020, , .		1
30	Anomalies in experimental measurement of operational inductances of a concentrated-wound IPM machine under field-weakening region. , 2015, , .		0