

Silverio Bolognani

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

233
papers

7,880
citations

45
h-index

83
g-index

265
ext. papers

9,898
ext. citations

4.5
avg, IF

6.35
L-index

#	Paper	IF	Citations
233	Fast Solver for Implicit Continuous Set Model Predictive Control of Electric Drives. <i>IEEE Access</i> , 2022 , 1-1	3.5	3
232	Review and Classification of MTPA Control Algorithms for Synchronous Motors. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	13
231	Digital Twins as Electric Motor Soft-Sensors in the Automotive Industry 2021 ,		2
230	Continuous Control Set Model Predictive Current Control of a Microgrid-Connected PWM Inverter. <i>IEEE Transactions on Power Systems</i> , 2021 , 36, 415-425	7	2
229	Implicit predictive flux control for high-performance induction motor drives. <i>Electrical Engineering</i> , 2021 , 103, 373-395	1.5	0
228	Computation of Self-Sensing Capabilities of Synchronous Machines for Rotating High Frequency Voltage Injection Sensorless Control. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	7
227	Current Ripple Minimisation in Deadbeat Parameter-Free Predictive Control of Synchronous Motor Drives. <i>IEEE Open Journal of Industry Applications</i> , 2021 , 1-1	4.7	1
226	Integral Model Predictive Current Control for Synchronous Motor Drives. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 13293-13303	7.2	9
225	. <i>IEEE Transactions on Industry Applications</i> , 2020 , 1-1	4.3	10
224	Motor Parameter-Free Predictive Current Control of Synchronous Motors by Recursive Least-Square Self-Commissioning Model. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 9093-9100	8.9	41
223	Implementation and experimental validation of ultra-high speed PMSM sensor-less control by means of extended Kalman filter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 1-1	5.6	5
222	A Novel Formulation of Continuous Control Set MPC for Induction Motor Drives 2019 ,		2
221	An Effective Model-Free Predictive Current Control for Synchronous Reluctance Motor Drives. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 3781-3790	4.3	56
220	A Moving Horizon Estimator for the Speed and Rotor Position of a Sensorless PMSM Drive. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 580-587	7.2	25
219	MHE-MPC Based Control Architecture of an LCL Filter Grid-Connected PWM Inverter 2019 ,		2
218	Simple and robust model predictive control of PMSM with moving horizon estimator for disturbance compensation. <i>Journal of Engineering</i> , 2019 , 2019, 4380-4385	0.7	5
217	Predictive Power Control for a Linearized Doubly Fed Induction Generator Model 2019 ,		1

216	Robust Predictive Current Control for a Sensorless IM Drive Based on Torque Angle Regulation 2019,			1
215	Self-Sensing-Oriented Optimization of Synchronous Reluctance Machine Design 2019,			3
214	A speed and current cascade Continuous Control Set Model Predictive Control architecture for synchronous motor drives 2019,			7
213	On-line Continuous Control Set MPC for PMSM drives current loops at high sampling rate using qpOASES 2019,			10
212	. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 2700-2709	4-3		14
211	. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 1437-1447	4-3		20
210	Electrifying Water Buses: A Case Study on Diesel-to-Electric Conversion in Venice. <i>IEEE Industry Applications Magazine</i> , 2018 , 24, 71-83	0.6		5
209	Model sensitivity of fundamental-frequency-based position estimators for sensorless pm and reluctance synchronous motor drives. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 77-85	8.9		32
208	A Model Predictive Control for Synchronous Motor Drive with Integral Action 2018,			12
207	Moving Horizon Estimator of PMSM N Nonlinearities 2018,			3
206	On the Rotor Position Self-Sensing Capability of IPM and Reluctance Synchronous Motors 2018,			6
205	Active-Flux-Based Motion-Sensorless Control of PMSM Using Moving Horizon Estimator 2018,			3
204	On the Proprieties of the Differential Cross-Saturation Inductance in Synchronous Machines. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 991-1000	4-3		33
203	Test bench for emulating a variety of salient rotor electrical propulsion machines with a single permanent-magnet synchronous machine drive. <i>IET Electrical Systems in Transportation</i> , 2017 , 7, 55-64	2.1		2
202	Real-time disturbance compensation algorithm for the current control of PMSM drives 2017,			2
201	Synchronous motors for traction applications 2017,			7
200	A new control strategy for high efficiency wide speed range synchronous reluctance motor drives 2017,			3
199	2017,			1

198	Effective sensorless model predictive direct torque control for a doubly fed induction machine 2017,			1
197	An effective voltage control loop for a deep flux-weakening in IPM synchronous motor drives 2017,			3
196	Model-free predictive current control for a SynRM drive based on an effective update of measured current responses 2017,			6
195	Effective model predictive current control for a sensorless IM drive 2017,			5
194	A moving horizon estimator for the speed and rotor position of a sensorless PMSM drive 2017,			4
193	Effective model predictive direct torque control for an induction motor drive 2016,			6
192	Fast synthesis of permanent magnet assisted synchronous reluctance motors. <i>IET Electric Power Applications</i> , 2016 , 10, 312-318	1.8		38
191	A robust current control based on proportional-integral observers for permanent magnet synchronous machines 2016,			2
190	Model Predictive Hysteresis Current Control for wide speed operation of a Synchronous Reluctance machine drive 2016,			3
189	The crowded axis of the frequency: Optimal pole/zero allocation for a full speed sensorless synchronous motor drives 2016,			4
188	D-axis polarity detection for IPM synchronous motor drives by high frequency voltage injection 2016,			4
187	High performance Direct Power Control for a doubly fed induction generator 2016,			1
186	Effective sensorless Direct Torque Control for an induction motor drive with reduced ripple contents 2016,			1
185	Sensorless control of a super-high speed synchronous motor drive based on a Kalman filter 2016,			3
184	Electric Vehicle Traction Based on Synchronous Reluctance Motors. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 4762-4769	4.3		119
183	. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 1485-1493	4.3		12
182	. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 3137-3146	4.3		12
181	High-Frequency d - q Model of Synchronous Machines for Sensorless Control. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 3923-3931	4.3		13

180	Power-Train Design and Performance of a Hybrid Motorcycle Prototype. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 2216-2226	4.3	13
179	Analysis and Experimental Tests of the Sensorless Capability of a Fractional-Slot Inset PM Motor. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 224-231	4.3	10
178	On the proprieties of the differential cross-saturation inductance in synchronous machines 2015 ,		8
177	An Integrated Starter-Alternator Based on a Sensorless Synchronous Reluctance Machine Drive 2015 ,		5
176	Active Torque Ripple Damping in Direct Drive Range Extender Applications: A Comparison and an Original Proposal 2015 ,		3
175	Computation and measurement of high frequency parameters in a synchronous machine 2015 ,		3
174	Ring Losses Evaluation in Ringed-Pole PM Motors. <i>IEEE Transactions on Industry Applications</i> , 2015 , 51, 3686-3695	4.3	5
173	Optimal State Reference Computation With Constrained MTPA Criterion for PM Motor Drives. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 4524-4535	7.2	88
172	Outer rotor IPM generator with wide constant power region for automotive applications 2014 ,		3
171	Bidirectional PMSM drive employing a three level ANPC inverter and a multi-phase interleaved DC/DC converter for hybrid electric vehicles 2014 ,		2
170	Design Issues and Estimation Errors Analysis of Back-EMF-Based Position and Speed Observer for SPM Synchronous Motors. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2014 , 2, 159-170	5.6	73
169	Analysis and Tests of the Sensorless Rotor Position Detection of Ringed-Pole Permanent-Magnet Motor. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 3278-3284	4.3	10
168	A test bench for hybrid propulsion train research and development 2014 ,		3
167	Adaptive Flux-Weakening Controller for Interior Permanent Magnet Synchronous Motor Drives. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2014 , 2, 236-248	5.6	67
166	High frequency d-q model of synchronous machines for sensorless control 2014 ,		1
165	A robust integrated starter/alternator drive adopting a synchronous reluctance machine for automotive applications 2014 ,		10
164	Electric vehicle traction based on a PM assisted synchronous reluctance motor 2014 ,		13
163	Comparison of direct and PWM model predictive control for power electronic and drive systems 2013 ,		31

162	Sensorless Capability of Fractional-Slot Surface-Mounted PM Motors. <i>IEEE Transactions on Industry Applications</i> , 2013 , 49, 1325-1332	4-3	17
161	2013 ,		4
160	Integrated-Starter/Alternator with sensorless ringed-pole PM synchronous motor drive 2013 ,		2
159	Design and performance of a power train for mild-hybrid motorcycle prototype 2013 ,		4
158	Thermal Analysis of a Five-Phase Motor Under Faulty Operations. <i>IEEE Transactions on Industry Applications</i> , 2013 , 49, 1531-1538	4-3	23
157	Model Predictive Torque Control with PWM using fast gradient method 2013 ,		19
156	Effect of Stator and Rotor Saturation on Sensorless Rotor Position Detection. <i>IEEE Transactions on Industry Applications</i> , 2013 , 49, 1333-1342	4-3	54
155	Investigation on the self-sensing capability of a fractional-slot inset PM motor 2013 ,		4
154	Effective formulation of the DTC strategy for convergence and stability analysis - The IPM motor drive case study 2013 ,		2
153	Model Predictive Direct Torque Control With Finite Control Set for PMSM Drive Systems, Part 2: Field Weakening Operation. <i>IEEE Transactions on Industrial Informatics</i> , 2013 , 9, 648-657	11.9	144
152	Model Predictive Direct Torque Control With Finite Control Set for PMSM Drive Systems, Part 1: Maximum Torque Per Ampere Operation. <i>IEEE Transactions on Industrial Informatics</i> , 2013 , 9, 1912-1921	11.9	233
151	Torque and Power Rating of a Wind-Power PM Generator Drive for Maximum Profit-to-Cost Ratio. <i>IEEE Transactions on Industry Applications</i> , 2013 , 49, 866-872	4-3	5
150	Considerations on Selecting Fractional-Slot Nonoverlapped Coil Windings. <i>IEEE Transactions on Industry Applications</i> , 2013 , 49, 1316-1324	4-3	46
149	Comparison of different synchronous machines for sensorless drives 2013 ,		9
148	Ring losses evaluation in ringed pole PM motors 2013 ,		6
147	Model Predictive Direct Speed Control with Finite Control Set of PMSM Drive Systems. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 1007-1015	7.2	302
146	. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 2557-2564	8.9	97
145	Mild-hybrid traction system based on a bidirectional half-bridge interleaved converter and a three-level active NPC inverter-fed PMSM 2012 ,		4

144	Sensorless Rotor Position Detection Capability of a Dual Three-Phase Fractional-Slot IPM Machine. <i>IEEE Transactions on Industry Applications</i> , 2012 , 48, 2068-2078	4-3	32
143	Analysis and tests of the sensorless rotor position detection of ringed-pole PM motor 2012 ,		7
142	Sensorless quasi-standstill and very low-speed position detection in non-salient PMSMs based on current injection and back-EMF observer 2012 ,		5
141	Analysis and experimental tests of the sensorless capability of a fractional-slot inset PM motor 2012 ,		3
140	Full speed range sensorless IPM motor drives 2012 ,		6
139	Nano-CHP for home application: Control and electric drive design 2012 ,		4
138	Small-signal finite-element modeling of synchronous machines for sensorless applications 2012 ,		10
137	Zero-speed sensorless drive capability of fractional-slot inset PM machine 2012 ,		6
136	Predicted and experimental anisotropy of a dual three-phase interior permanent magnet motor for sensorless rotor position control 2012 ,		4
135	Mild hybrid motorcycles: Choice of the energy storage system 2012 ,		3
134	Sensorless rotor position detection capability of a dual three-phase fractional-slot IPM machine 2011 ,		3
133	Online MTPA Control Strategy for DTC Synchronous-Reluctance-Motor Drives. <i>IEEE Transactions on Power Electronics</i> , 2011 , 26, 20-28	7-2	81
132	Optimized design of two and three level full-scale voltage source converters for multi-MW wind power plants at different voltage levels 2011 ,		19
131	Rotor Losses Measurements in an Axial Flux Permanent Magnet Machine. <i>IEEE Transactions on Energy Conversion</i> , 2011 , 26, 639-645	5-4	41
130	Optimal voltage feed-back flux-weakening control of IPMSM 2011 ,		7
129	Optimization of the generator to rotor ratio of MW wind turbines based on the cost of energy with focus on low wind speeds 2011 ,		9
128	Sensorless Control of IPM Motors in the Low-Speed Range and at Standstill by HF Injection and DFT Processing. <i>IEEE Transactions on Industry Applications</i> , 2011 , 47, 96-104	4-3	57
127	Automatic Tracking of MTPA Trajectory in IPM Motor Drives Based on AC Current Injection. <i>IEEE Transactions on Industry Applications</i> , 2011 , 47, 105-114	4-3	128

126	. <i>IEEE Transactions on Industry Applications</i> , 2011 , 47, 789-797	4.3	36
125	Ringed-Pole Permanent-Magnet Synchronous Motor for Position Sensorless Drives. <i>IEEE Transactions on Industry Applications</i> , 2011 , 47, 1759-1766	4.3	18
124	Interior permanent magnet integrated starter-alternator. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2011 , 30, 117-136	0.7	1
123	Sensorless control for IPMSM using PWM excitation: Analytical developments and implementation issues 2011 ,		27
122	Design procedure of IPM motor drive for railway traction 2011 ,		9
121	Thermal analysis of a five-phase motor under faulty operations 2011 ,		2
120	Speed and current Model Predictive Control of an IPM synchronous motor drive 2011 ,		18
119	Sensorless capability of fractional-slot surface-mounted PM motors 2011 ,		5
118	Torque/power rating design of an IPM machine for maximum profit-to-cost ratio in wind power generation 2011 ,		3
117	A design-oriented model of doubly-fed induction machine 2011 ,		2
116	Outer-rotor ringed-pole SPM starter-alternator suited for sensorless drives 2011 ,		19
115	Model predictive direct speed control with finite control set of PMSM-VSI drive systems 2011 ,		17
114	Design issues and estimation errors analysis of back-EMF based position and speed observer for SPM synchronous motors 2011 ,		9
113	Adaptive flux-weakening controller for IPMSM drives 2011 ,		17
112	Performance of Five-phase Motor Drive under Post-fault Operations. <i>Electric Power Components and Systems</i> , 2011 , 39, 1302-1314	1	5
111	Effect of stator and rotor saturation on sensorless rotor position detection 2011 ,		16
110	A new proposal of rotor position estimation in IPM motor drives based on PWM current harmonics 2010 ,		2
109	Rotor design arrangement of SPM motors for the sensorless control at low speed and standstill 2010 ,		4

108	On-line tracking of the MTPA trajectory in IPM motors via active power measurement 2010,		17
107	Considerations on selecting fractional-slot windings 2010,		23
106	Commissioning of Electromechanical Conversion Models for High Dynamic PMSM Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 986-993	8.9	19
105	IPM Machine Drive Design and Tests for an Integrated Starter/Alternator Application. <i>IEEE Transactions on Industry Applications</i> , 2010 , 46, 993-1001	4.3	35
104	An Overview of Rotor Losses Determination in Three-Phase Fractional-Slot PM Machines. <i>IEEE Transactions on Industry Applications</i> , 2010 , 46, 2338-2345	4.3	68
103	Finite element modeling of induction motor for variable speed drives. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2010 , 29, 1245-1256	0.7	3
102	Rotor losses in fractional-slot three-phase and five-phase PM machines 2010,		14
101	Efficient conditioning of energy in AFE-based Distributed Generation units 2010,		1
100	A ringed-pole SPM motor for sensorless drives - electromagnetic analysis, prototyping and tests 2010,		9
99	IM rotor parameters analysis with an intentionally created saliency 2010,		4
98	Performance evaluation of an integrated starter alternator using an interior permanent magnet machine. <i>IET Electric Power Applications</i> , 2010 , 4, 539	1.8	9
97	A finite-element procedure to compute variable speed induction machine performance 2009,		3
96	Automatic tracking of MTPA trajectory in IPM motor drives based on AC current injection 2009,		14
95	Rotor Flux-Barrier Design for Torque Ripple Reduction in Synchronous Reluctance and PM-Assisted Synchronous Reluctance Motors. <i>IEEE Transactions on Industry Applications</i> , 2009 , 45, 921-928	4.3	273
94	Sensorless control of IPM motors in the low-speed range and at stand-still by HF-injection and DFT processing 2009,		9
93	Predicted and measured errors in estimating rotor position by signal injection for salient-pole PM synchronous motors 2009,		31
92	Ringed-pole permanent magnet synchronous motor for position sensorless drives 2009,		9
91	Sensorless-Oriented Design of PM Motors. <i>IEEE Transactions on Industry Applications</i> , 2009 , 45, 1249-1257	7.3	36

90	Design and Implementation of Model Predictive Control for Electrical Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 1925-1936	8.9	254
89	The steering effect PM motor drives for automotive systems. <i>IEEE Industry Applications Magazine</i> , 2008 , 14, 40-48	0.6	12
88	Combined speed and current Model Predictive Control with inherent field-weakening features for PMSM Drives 2008 ,		18
87	A Very Rapid Prediction of IM Performance Combining Analytical and Finite-Element Analysis. <i>IEEE Transactions on Industry Applications</i> , 2008 , 44, 1505-1512	4.3	45
86	Magnetic Loading of Fractional-Slot Three-Phase PM Motors With Nonoverlapped Coils. <i>IEEE Transactions on Industry Applications</i> , 2008 , 44, 1513-1521	4.3	35
85	Repetitive-Control-Based Self-Commissioning Procedure for Inverter Nonidealities Compensation. <i>IEEE Transactions on Industry Applications</i> , 2008 , 44, 1587-1596	4.3	39
84	Advantages of Inset PM Machines for Zero-Speed Sensorless Position Detection. <i>IEEE Transactions on Industry Applications</i> , 2008 , 44, 1190-1198	4.3	54
83	Impact of Stator Winding of a Five-Phase Permanent-Magnet Motor on Postfault Operations. <i>IEEE Transactions on Industrial Electronics</i> , 2008 , 55, 1978-1987	8.9	85
82	Post-fault operations of five-phase motor using a full-bridge inverter. <i>Power Electronics Specialist Conference (PESC), IEEE</i> , 2008 ,		23
81	Parameter Sensitivity Analysis of an Improved Open-Loop Speed Estimate for Induction Motor Drives. <i>IEEE Transactions on Power Electronics</i> , 2008 , 23, 2127-2135	7.2	55
80	Finite element modeling of induction motor for variable speed drives 2008 ,		2
79	Field oriented control of induction motor: A direct analysis using finite element 2008 ,		7
78	Design of a flux weakening control scheme for DC motor drives featuring full voltage operation 2008 ,		1
77	Effective control of an Integrated Starter-Alternator with an IPM synchronous machine. <i>Power Electronics Specialist Conference (PESC), IEEE</i> , 2008 ,		3
76	Impact of Rotor Losses in a 12-Slot 10-Pole Axial Flux PM Machine 2008 ,		18
75	Hybrid electric propulsion system using submersed SPM machine 2008 ,		6
74	IPM Machine Drive Design and Tests for an Integrated Starter-Alternator Application 2008 ,		4
73	Torque Harmonic Compensation in a Synchronous Reluctance Motor. <i>IEEE Transactions on Energy Conversion</i> , 2008 , 23, 466-473	5.4	101

72	Modelling and design of a direct-drive lift control with rope elasticity and estimation of starting torque 2007 ,		10
71	Sensorless-Oriented-Design of PM Motors. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2007 ,		2
70	Lamination Design of a Set of Induction Motors for Elevator Systems 2007 ,		2
69	Inverter Non-Idealities Override by Repetitive Control 2007 ,		6
68	A rapid prediction of IM performance using a combined analytical and finite element analysis 2007 ,		3
67	High Dynamic Electromechanical Conversion Model for PMSM Drives 2007 ,		3
66	Influence of Rotor Geometry of an IPM Motor on Sensorless Control Feasibility. <i>IEEE Transactions on Industry Applications</i> , 2007 , 43, 87-96	4-3	108
65	Strategies for the Fault-Tolerant Current Control of a Five-Phase Permanent-Magnet Motor. <i>IEEE Transactions on Industry Applications</i> , 2007 , 43, 960-970	4-3	181
64	A General Approach to Determine the Rotor Losses in Three-Phase Fractional-Slot PM Machines 2007 ,		45
63	Comparison of PM Motor Structures and Sensorless Control Techniques for Zero-Speed Rotor Position Detection. <i>IEEE Transactions on Power Electronics</i> , 2007 , 22, 2466-2475	7.2	128
62	Design of a fault-tolerant IPM motor for electric power steering. <i>IEEE Transactions on Vehicular Technology</i> , 2006 , 55, 1102-1111	6.8	83
61	Advantages of inset PM machines for zero-speed sensorless position detection 2006 ,		8
60	Improvements in Power Line Communication Reliability for Electric Drives by Random PWM Techniques 2006 ,		5
59	Design criteria for high-efficiency SPM synchronous motors. <i>IEEE Transactions on Energy Conversion</i> , 2006 , 21, 396-404	5-4	57
58	Design considerations for fractional-slot winding configurations of synchronous machines. <i>IEEE Transactions on Industry Applications</i> , 2006 , 42, 997-1006	4-3	280
57	High speed drive using a slotless PM motor. <i>IEEE Transactions on Power Electronics</i> , 2006 , 21, 1083-1090	7.2	76
56	Rotor flux-barrier design for torque ripple reduction in synchronous reluctance motors 2006 ,		32
55	Magnetic loading of fractional-slot three phase PM motors with non-overlapped coils 2006 ,		10

54	Start-up Strategy for a Sensorless Direct Drive PM Generator for Wind Turbines 2005 ,		5
53	Analysis and design of a PM Brushless Motor for high-speed operations. <i>IEEE Transactions on Energy Conversion</i> , 2005 , 20, 629-637	5-4	59
52	Reduction of cogging force in PM linear motors by pole-shifting. <i>IET Electric Power Applications</i> , 2005 , 152, 703		50
51	New Perspectives for Electrical Motors in Adjustable Speed Drives. <i>EPE Journal (European Power Electronics and Drives Journal)</i> , 2004 , 14, 6-11	0-4	3
50	Potentials and limits of high-speed PM motors. <i>IEEE Transactions on Industry Applications</i> , 2004 , 40, 1570-1578	4-5	198
49	Fractional-slot PM motors for electric power steering systems. <i>International Journal of Vehicle Autonomous Systems</i> , 2004 , 2, 189	0-4	4
48	Innovative remedial strategies for inverter faults in IPM synchronous motor drives. <i>IEEE Transactions on Energy Conversion</i> , 2003 , 18, 306-314	5-4	92
47	Tubular linear permanent magnet motors: an overall comparison. <i>IEEE Transactions on Industry Applications</i> , 2003 , 39, 466-475	4-3	143
46	Extended Kalman filter tuning in sensorless PMSM drives. <i>IEEE Transactions on Industry Applications</i> , 2003 , 39, 1741-1747	4-3	311
45	Thermal analysis of a run-capacitor single-phase induction motor. <i>IEEE Transactions on Industry Applications</i> , 2003 , 39, 457-465	4-3	6
44	EKF-based sensorless IPM synchronous motor drive for flux-weakening applications. <i>IEEE Transactions on Industry Applications</i> , 2003 , 39, 768-775	4-3	46
43	Field-weakening in high-performance PMSM drives. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2002 , 21, 338-354	0-7	
42	Design techniques for reducing the cogging torque in surface-mounted PM motors. <i>IEEE Transactions on Industry Applications</i> , 2002 , 38, 1259-1265	4-3	480
41	Design Considerations for a Tubular Linear PM Servo Motor. <i>EPE Journal (European Power Electronics and Drives Journal)</i> , 2001 , 11, 41-47	0-4	4
40	Extended-range PMSM sensorless speed drive based on stochastic filtering. <i>IEEE Transactions on Power Electronics</i> , 2001 , 16, 110-117	7-2	102
39	High-performance PM synchronous motor drive for an electrical scooter. <i>IEEE Transactions on Industry Applications</i> , 2001 , 37, 1348-1355	4-3	65
38	Experimental fault-tolerant control of a PMSM drive. <i>IEEE Transactions on Industrial Electronics</i> , 2000 , 47, 1134-1141	8-9	248
37	Salient-rotor PM synchronous motors for an extended flux-weakening operation range. <i>IEEE Transactions on Industry Applications</i> , 2000 , 36, 1118-1125	4-3	64

36	Finite element analysis of three-phase induction motors: comparison of two different approaches. <i>IEEE Transactions on Energy Conversion</i> , 1999 , 14, 1523-1528	5.4	36
35	Sensorless full-digital PMSM drive with EKF estimation of speed and rotor position. <i>IEEE Transactions on Industrial Electronics</i> , 1999 , 46, 184-191	8.9	362
34	Hardware and software effective configurations for multi-input fuzzy logic controllers. <i>IEEE Transactions on Fuzzy Systems</i> , 1998 , 6, 173-179	8.3	16
33	Parameters and volt-ampere ratings of a synchronous motor drive for flux-weakening applications. <i>IEEE Transactions on Power Electronics</i> , 1997 , 12, 895-903	7.2	74
32	Novel digital continuous control of SVM inverters in the overmodulation range. <i>IEEE Transactions on Industry Applications</i> , 1997 , 33, 525-530	4.3	109
31	Fuzzy logic control of a switched reluctance motor drive. <i>IEEE Transactions on Industry Applications</i> , 1996 , 32, 1063-1068	4.3	64
30	. <i>IEEE Transactions on Industry Applications</i> , 1993 , 29, 181-186	4.3	3
29	. <i>IEEE Transactions on Industry Applications</i> , 1992 , 28, 1038-1044	4.3	8
28	Switched-Reluctance Motor Performance Analysis Based On An Improved Modeling Of Its Magnetic Characteristics. <i>Electric Power Components and Systems</i> , 1991 , 19, 425-438		10
27	DC Link Current Control for High-Performance CSIM Drives. <i>IEEE Transactions on Industry Applications</i> , 1987 , IA-23, 1043-1047	4.3	12
26	Control System Design of a Current Inverter Induction Motor Drive. <i>IEEE Transactions on Industry Applications</i> , 1985 , IA-21, 1145-1153	4.3	11
25	A Study of Converter-Fed Synchronous Machines by Means of Fourier Analysis. <i>IEEE Transactions on Industry Applications</i> , 1980 , IA-16, 203-210	4.3	8
24	Comparison of PM motor structures and sensorless control techniques for zero-speed rotor position detection		17
23	Torque harmonic compensation in a synchronous reluctance motor		4
22	PM motor drives for steer-by-wire applications		7
21	Influence of rotor geometry of an interior PM motor on sensorless control feasibility		43
20	Fault -Tolerant PM Motors in Automotive Applications		17
19	Design Hints of an IPM Synchronous Motor for an Effective Position Sensorless Control		23

18	Design and tests of a fault-tolerant five-phase permanent magnet motor	26
17	Design criteria of high efficiency SPM synchronous motors	9
16	High speed drive using a slotless PM motor	5
15	DSP-based time optimal current control for high dynamic IPM motor drives	9
14	Sensorless control of PM synchronous motors with non-sinusoidal back EMF for home appliance	9
13	High dynamic PMSM current control by optimal saturation management of current regulators	3
12	Back EMF improvement and force ripple reduction in PM linear motor drives	5
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