Silverio Bolognani

List of Publications by Citations

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	Design techniques for reducing the cogging torque in surface-mounted PM motors. *IEEE Transactions on Industry Applications*, **2002**, 38, 1259-1265	4.3	480
232	Sensorless full-digital PMSM drive with EKF estimation of speed and rotor position. *IEEE Transactions on Industrial Electronics*, **1999**, 46, 184-191	8.9	362
231	Extended Kalman filter tuning in sensorless PMSM drives. *IEEE Transactions on Industry Applications*, **2003**, 39, 1741-1747	4.3	311
230	Model Predictive Direct Speed Control with Finite Control Set of PMSM Drive Systems. *IEEE Transactions on Power Electronics*, **2013**, 28, 1007-1015	7.2	302
229	Design considerations for fractional-slot winding configurations of synchronous machines. *IEEE Transactions on Industry Applications*, **2006**, 42, 997-1006	4.3	280
228	Rotor Flux-Barrier Design for Torque Ripple Reduction in Synchronous Reluctance and PM-Assisted Synchronous Reluctance Motors. *IEEE Transactions on Industry Applications*, **2009**, 45, 921-928	4.3	273
227	Design and Implementation of Model Predictive Control for Electrical Motor Drives. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 1925-1936	8.9	254
226	Experimental fault-tolerant control of a PMSM drive. *IEEE Transactions on Industrial Electronics*, **2000**, 47, 1134-1141	8.9	248
225	Model Predictive Direct Torque Control With Finite Control Set for PMSM Drive Systems, Part 1: Maximum Torque Per Ampere Operation. *IEEE Transactions on Industrial Informatics*, **2013**, 9, 1912-1921	11.9	233
224	Potentials and limits of high-speed PM motors. *IEEE Transactions on Industry Applications*, **2004**, 40, 1570-1578	4.3	198
223	Strategies for the Fault-Tolerant Current Control of a Five-Phase Permanent-Magnet Motor. *IEEE Transactions on Industry Applications*, **2007**, 43, 960-970	4.3	181
222	Model Predictive Direct Torque Control With Finite Control Set for PMSM Drive Systems, Part 2: Field Weakening Operation. *IEEE Transactions on Industrial Informatics*, **2013**, 9, 648-657	11.9	144
221	Tubular linear permanent magnet motors: an overall comparison. *IEEE Transactions on Industry Applications*, **2003**, 39, 466-475	4.3	143
220	Automatic Tracking of MTPA Trajectory in IPM Motor Drives Based on AC Current Injection. *IEEE Transactions on Industry Applications*, **2011**, 47, 105-114	4.3	128
219	Comparison of PM Motor Structures and Sensorless Control Techniques for Zero-Speed Rotor Position Detection. *IEEE Transactions on Power Electronics*, **2007**, 22, 2466-2475	7.2	128
218	Electric Vehicle Traction Based on Synchronous Reluctance Motors. *IEEE Transactions on Industry Applications*, **2016**, 52, 4762-4769	4.3	119
217	Novel digital continuous control of SVM inverters in the overmodulation range. *IEEE Transactions on Industry Applications*, **1997**, 33, 525-530	4.3	109

216	Influence of Rotor Geometry of an IPM Motor on Sensorless Control Feasibility. *IEEE Transactions on Industry Applications*, **2007**, 43, 87-96	4.3	108
215	Extended-range PMSM sensorless speed drive based on stochastic filtering. *IEEE Transactions on Power Electronics*, **2001**, 16, 110-117	7.2	102
214	Torque Harmonic Compensation in a Synchronous Reluctance Motor. *IEEE Transactions on Energy Conversion*, **2008**, 23, 466-473	5.4	101
213	. *IEEE Transactions on Industrial Electronics*, **2012**, 59, 2557-2564	8.9	97
212	Innovative remedial strategies for inverter faults in IPM synchronous motor drives. *IEEE Transactions on Energy Conversion*, **2003**, 18, 306-314	5.4	92
211	Optimal State Reference Computation With Constrained MTPA Criterion for PM Motor Drives. *IEEE Transactions on Power Electronics*, **2015**, 30, 4524-4535	7.2	88
210	Impact of Stator Winding of a Five-Phase Permanent-Magnet Motor on Postfault Operations. *IEEE Transactions on Industrial Electronics*, **2008**, 55, 1978-1987	8.9	85
209	Design of a fault-tolerant IPM motor for electric power steering. *IEEE Transactions on Vehicular Technology*, **2006**, 55, 1102-1111	6.8	83
208	Online MTPA Control Strategy for DTC Synchronous-Reluctance-Motor Drives. *IEEE Transactions on Power Electronics*, **2011**, 26, 20-28	7.2	81
207	High speed drive using a slotless PM motor. *IEEE Transactions on Power Electronics*, **2006**, 21, 1083-1090	7.2	76
206	Parameters and volt-ampere ratings of a synchronous motor drive for flux-weakening applications. *IEEE Transactions on Power Electronics*, **1997**, 12, 895-903	7.2	74
205	Design Issues and Estimation Errors Analysis of Back-EMF-Based Position and Speed Observer for SPM Synchronous Motors. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2014**, 2, 159-170	5.6	73
204	An Overview of Rotor Losses Determination in Three-Phase Fractional-Slot PM Machines. *IEEE Transactions on Industry Applications*, **2010**, 46, 2338-2345	4.3	68
203	Adaptive Flux-Weakening Controller for Interior Permanent Magnet Synchronous Motor Drives. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2014**, 2, 236-248	5.6	67
202	High-performance PM synchronous motor drive for an electrical scooter. *IEEE Transactions on Industry Applications*, **2001**, 37, 1348-1355	4.3	65
201	Salient-rotor PM synchronous motors for an extended flux-weakening operation range. *IEEE Transactions on Industry Applications*, **2000**, 36, 1118-1125	4.3	64
200	Fuzzy logic control of a switched reluctance motor drive. *IEEE Transactions on Industry Applications*, **1996**, 32, 1063-1068	4.3	64
199	Analysis and design of a PM Brushless Motor for high-speed operations. *IEEE Transactions on Energy Conversion*, **2005**, 20, 629-637	5.4	59

198			59
197	Sensorless Control of IPM Motors in the Low-Speed Range and at Standstill by HF Injection and DFT Processing. *IEEE Transactions on Industry Applications*, **2011**, 47, 96-104	4.3	57
196	Design criteria for high-efficiency SPM synchronous motors. *IEEE Transactions on Energy Conversion*, **2006**, 21, 396-404	5.4	57
195	An Effective Model-Free Predictive Current Control for Synchronous Reluctance Motor Drives. *IEEE Transactions on Industry Applications*, **2019**, 55, 3781-3790	4.3	56
194	Parameter Sensitivity Analysis of an ImprovedOpen-Loop Speed Estimate forInduction Motor Drives. *IEEE Transactions on Power Electronics*, **2008**, 23, 2127-2135	7.2	55
193	Effect of Stator and Rotor Saturation on Sensorless Rotor Position Detection. *IEEE Transactions on Industry Applications*, **2013**, 49, 1333-1342	4.3	54
192	Advantages of Inset PM Machines for Zero-Speed Sensorless Position Detection. *IEEE Transactions on Industry Applications*, **2008**, 44, 1190-1198	4.3	54
191	Reduction of cogging force in PM linear motors by pole-shifting. *IET Electric Power Applications*, **2005**, 152, 703		50
190	Considerations on Selecting Fractional-Slot Nonoverlapped Coil Windings. *IEEE Transactions on Industry Applications*, **2013**, 49, 1316-1324	4.3	46
189	EKF-based sensorless IPM synchronous motor drive for flux-weakening applications. *IEEE Transactions on Industry Applications*, **2003**, 39, 768-775	4.3	46
188	A Very Rapid Prediction of IM Performance Combining Analytical and Finite-Element Analysis. *IEEE Transactions on Industry Applications*, **2008**, 44, 1505-1512	4.3	45
187	A General Approach to Determine the Rotor Losses in Three-Phase Fractional-Slot PM Machines **2007**,		45
186	Influence of rotor geometry of an interior PM motor on sensorless control feasibility		43
185	Rotor Losses Measurements in an Axial Flux Permanent Magnet Machine. *IEEE Transactions on Energy Conversion*, **2011**, 26, 639-645	5.4	41
184	Motor Parameter-Free Predictive Current Control of Synchronous Motors by Recursive Least-Square Self-Commissioning Model. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 9093-9100	8.9	41
183	Repetitive-Control-Based Self-Commissioning Procedure for Inverter Nonidealities Compensation. *IEEE Transactions on Industry Applications*, **2008**, 44, 1587-1596	4.3	39
182	Fast synthesis of permanent magnet assisted synchronous reluctance motors. *IET Electric Power Applications*, **2016**, 10, 312-318	1.8	38
181	. *IEEE Transactions on Industry Applications*, **2011**, 47, 789-797	4.3	36

180	Sensorless-Oriented Design of PM Motors. *IEEE Transactions on Industry Applications*, **2009**, 45, 1249-1257	4.3	36
179	Finite element analysis of three-phase induction motors: comparison of two different approaches. *IEEE Transactions on Energy Conversion*, **1999**, 14, 1523-1528	5.4	36
178	IPM Machine Drive Design and Tests for an Integrated Starter Alternator Application. *IEEE Transactions on Industry Applications*, **2010**, 46, 993-1001	4.3	35
177	Magnetic Loading of Fractional-Slot Three-Phase PM Motors With Nonoverlapped Coils. *IEEE Transactions on Industry Applications*, **2008**, 44, 1513-1521	4.3	35
176	On the Proprieties of the Differential Cross-Saturation Inductance in Synchronous Machines. *IEEE Transactions on Industry Applications*, **2017**, 53, 991-1000	4.3	33
175	Model sensitivity of fundamental-frequency-based position estimators for sensorless pm and reluctance synchronous motor drives. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 77-85	8.9	32
174	Sensorless Rotor Position Detection Capability of a Dual Three-Phase Fractional-Slot IPM Machine. *IEEE Transactions on Industry Applications*, **2012**, 48, 2068-2078	4.3	32
173	Rotor flux-barrier design for torque ripple reduction in synchronous reluctance motors **2006**,		32
172	Comparison of direct and PWM model predictive control for power electronic and drive systems **2013**,		31
171	Predicted and measured errors in estimating rotor position by signal injection for salient-pole PM synchronous motors **2009**,		31
170	Sensorless control for IPMSM using PWM excitation: Analytical developments and implementation issues **2011**,		27
169	Design and tests of a fault-tolerant five-phase permanent magnet motor		26
168	A Moving Horizon Estimator for the Speed and Rotor Position of a Sensorless PMSM Drive. *IEEE Transactions on Power Electronics*, **2019**, 34, 580-587	7.2	25
167	Interior PM synchronous motor for high performance applications		25
166	Thermal Analysis of a Five-Phase Motor Under Faulty Operations. *IEEE Transactions on Industry Applications*, **2013**, 49, 1531-1538	4.3	23
165	Considerations on selecting fractional-slot windings **2010**,		23
164	Post-fault operations of five-phase motor using a full-bridge inverter. *Power Electronics Specialist Conference (PESC), IEEE*, **2008**,		23
163	Design Hints of an IPM Synchronous Motor for an Effective Position Sensorless Control		23

162	Design of a Fault-tolerant IPM Motor for Electric Power Steering		22
161	Design criteria of a tubular linear IPM motor		22
160	. *IEEE Transactions on Industry Applications*, **2018**, 54, 1437-1447	4.3	20
159	Model Predictive Torque Control with PWM using fast gradient method **2013**,		19
158	Optimized design of two and three level full-scale voltage source converters for multi-MW wind power plants at different voltage levels **2011**,		19
157	Commissioning of Electromechanical Conversion Models for High Dynamic PMSM Drives. *IEEE Transactions on Industrial Electronics*, **2010**, 57, 986-993	8.9	19
156	Outer-rotor ringed-pole SPM starter-alternator suited for sensorless drives **2011**,		19
155	Ringed-Pole Permanent-Magnet Synchronous Motor for Position Sensorless Drives. *IEEE Transactions on Industry Applications*, **2011**, 47, 1759-1766	4.3	18
154	Speed and current Model Predictive Control of an IPM synchronous motor drive **2011**,		18
153	Combined speed and current Model Predictive Control with inherent field-weakening features for PMSM Drives **2008**,		18
152	Impact of Rotor Losses in a 12-Slot 10-Pole Axial Flux PM Machine **2008**,		18
151	Sensorless Capability of Fractional-Slot Surface-Mounted PM Motors. *IEEE Transactions on Industry Applications*, **2013**, 49, 1325-1332	4.3	17
150	On-line tracking of the MTPA trajectory in IPM motors via active power measurement **2010**,		17
149	Model predictive direct speed control with finite control set of PMSM-VSI drive systems **2011**,		17
148	Adaptive flux-weakening controller for IPMSM drives **2011**,		17
147	Comparison of PM motor structures and sensorless control techniques for zero-speed rotor position detection		17
146	Fault -Tolerant PM Motors in Automotive Applications		17
145	Effect of stator and rotor saturation on sensorless rotor position detection **2011**,		16

144	Hardware and software effective configurations for multi-input fuzzy logic controllers. *IEEE Transactions on Fuzzy Systems*, **1998**, 6, 173-179	8.3	16
143	Rotor losses in fractional-slot three-phase and five-phase PM machines **2010**,		14
142	Automatic tracking of MTPA trajectory in IPM motor drives based on AC current injection **2009**,		14
141	. *IEEE Transactions on Industry Applications*, **2019**, 55, 2700-2709	4.3	14
140	High-Frequency d□q Model of Synchronous Machines for Sensorless Control. *IEEE Transactions on Industry Applications*, **2015**, 51, 3923-3931	4.3	13
139	Power-Train Design and Performance of a Hybrid Motorcycle Prototype. *IEEE Transactions on Industry Applications*, **2015**, 51, 2216-2226	4.3	13
138	Electric vehicle traction based on a PM assisted synchronous reluctance motor **2014**,		13
137	Review and Classification of MTPA Control Algorithms for Synchronous Motors. *IEEE Transactions on Power Electronics*, **2021**, 1-1	7.2	13
136	. *IEEE Transactions on Industry Applications*, **2015**, 51, 1485-1493	4.3	12
135	. *IEEE Transactions on Industry Applications*, **2015**, 51, 3137-3146	4.3	12
134	The steering effect PM motor drives for automotive systems. *IEEE Industry Applications Magazine*, **2008**, 14, 40-48	0.6	12
133	DC Link Current Control for High-Performance CSIM Drives. *IEEE Transactions on Industry Applications*, **1987**, IA-23, 1043-1047	4.3	12
132	A Model Predictive Control for Synchronous Motor Drive with Integral Action **2018**,		12
131	Control System Design of a Current Inverter Induction Motor Drive. *IEEE Transactions on Industry Applications*, **1985**, IA-21, 1145-1153	4.3	11
130	Analysis and Experimental Tests of the Sensorless Capability of a Fractional-Slot Inset PM Motor. *IEEE Transactions on Industry Applications*, **2015**, 51, 224-231	4.3	10
129	. *IEEE Transactions on Industry Applications*, **2020**, 1-1	4.3	10
128	Analysis and Tests of the Sensorless Rotor Position Detection of Ringed-Pole Permanent-Magnet Motor. *IEEE Transactions on Industry Applications*, **2014**, 50, 3278-3284	4.3	10
127	A robust integrated starter/alternator drive adopting a synchronous reluctance machine for automotive applications **2014**,		10

126	Small-signal finite-element modeling of synchronous machines for sensorless applications **2012**,		10
125	Modelling and design of a direct-drive lift control with rope elasticity and estimation of starting torque **2007**,		10
124	Magnetic loading of fractional-slot three phase PM motors with non-overlapped coils **2006**,		10
123	Switched-Reluctance Motor Performance Analysis Based On An Improved Modeling Of Its Magnetic Characteristics. *Electric Power Components and Systems*, **1991**, 19, 425-438		10
122	On-line Continuous Control Set MPC for PMSM drives current loops at high sampling rate using qpOASES **2019**,		10
121	Comparison of different synchronous machines for sensorless drives **2013**,		9
120	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
119	A ringed-pole SPM motor for sensorless drives - electromagnetic analysis, prototyping and tests **2010**,		9
118	Design procedure of IPM motor drive for railway traction **2011**,		9
117	Sensorless control of IPM motors in the low-speed range and at stand-still by HF-injection and DFT processing **2009**,		9
116	Design issues and estimation errors analysis of back-EMF based position and speed observer for SPM synchronous motors **2011**,		9
115	Ringed-pole permanent magnet synchronous motor for position sensorless drives **2009**,		9
114	Performance evaluation of an integrated starter alternator using an interior permanent magnet machine. *IET Electric Power Applications*, **2010**, 4, 539	1.8	9
113	Design criteria of high efficiency SPM synchronous motors		9
112	DSP-based time optimal current control for high dynamic IPM motor drives		9
111	Sensorless control of PM synchronous motors with non-sinusoidal back EMF for home appliance		9
110	Extended Kalman filter tuning in sensorless PMSM drives		9
109	Analysis and design of a brushless motor for high speed operation		9

108	Integral Model Predictive Current Control for Synchronous Motor Drives. *IEEE Transactions on Power Electronics*, **2021**, 36, 13293-13303	7.2	9
107	On the proprieties of the differential cross-saturation inductance in synchronous machines **2015**,		8
106	Advantages of inset PM machines for zero-speed sensorless position detection **2006**,		8
105	PM Motors for Very High Dynamic Applications		8
104	Tubular linear permanent magnet motors: an overall comparison		8
103	. *IEEE Transactions on Industry Applications*, **1992**, 28, 1038-1044	4.3	8
102	A Study of Converter-Fed Synchronous Machines by Means of Fourier Analysis. *IEEE Transactions on Industry Applications*, **1980**, IA-16, 203-210	4.3	8
101	Synchronous motors for traction applications **2017**,		7
100	Analysis and tests of the sensorless rotor position detection of ringed-pole PM motor **2012**,		7
99	Optimal voltage feed-back flux-weakening control of IPMSM **2011**,		7
98	Field oriented control of induction motor: A direct analysis using finite element **2008**,		7
97	PM motor drives for steer-by-wire applications		7
96	Time optimal current control for PMSM drives		7
95	Theoretical and experimental comparison of speed controllers for elastic two-mass-systems		7
94	A speed and current cascade Continuous Control Set Model Predictive Control architecture for synchronous motor drives **2019**,		7
93	Computation of Self-Sensing Capabilities of Synchronous Machines for Rotating High Frequency Voltage Injection Sensorless Control. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	7
92	Effective model predictive direct torque control for an induction motor drive **2016**,		6
91	Model-free predictive current control for a SynRM drive based on an effective update of measured current responses **2017**,		6

90	Full speed range sensorless IPM motor drives **2012**,		6
89	Ring losses evaluation in ringed pole PM motors **2013**,		6
88	Zero-speed sensorless drive capability of fractional-slot inset PM machine **2012**,		6
87	Hybrid electric propulsion system using submersed SPM machine **2008**,		6
86	Inverter Non-Idealities Override by Repetitive Control **2007**,		6
85	Thermal analysis of a run-capacitor single-phase induction motor. *IEEE Transactions on Industry Applications*, **2003**, 39, 457-465	4.3	6
84	On the Rotor Position Self-Sensing Capability of IPM and Reluctance Synchronous Motors **2018**,		6
83	Electrifying Water Buses: A Case Study on Diesel-to-Electric Conversion in Venice. *IEEE Industry Applications Magazine*, **2018**, 24, 71-83	0.6	5
82	Simple and robust model predictive control of PMSM with moving horizon estimator for disturbance compensation. *Journal of Engineering*, **2019**, 2019, 4380-4385	0.7	5
81	Torque and Power Rating of a Wind-Power PM Generator Drive for Maximum Profit-to-Cost Ratio. *IEEE Transactions on Industry Applications*, **2013**, 49, 866-872	4.3	5
80	Effective model predictive current control for a sensorless IM drive **2017**,		5
79	An Integrated Starter-Alternator Based on a Sensorless Synchronous Reluctance Machine Drive **2015**,		5
78	Ring Losses Evaluation in Ringed-Pole PM Motors. *IEEE Transactions on Industry Applications*, **2015**, 51, 3686-3695	4.3	5
77	Sensorless quasi-standstill and very low-speed position detection in non-salient PMSMs based on current injection and back-EMF observer **2012**,		5
76	Sensorless capability of fractional-slot surface-mounted PM motors **2011**,		5
75	Performance of Five-phase Motor Drive under Post-fault Operations. *Electric Power Components and Systems*, **2011**, 39, 1302-1314	1	5
74	Improvements in Power Line Communication Reliability for Electric Drives by Random PWM Techniques **2006**,		5
73	Start-up Strategy for a Sensorless Direct Drive PM Generator for Wind Turbines **2005**,		5

72	High speed drive using a slotless PM motor		5
71	Back EMF improvement and force ripple reduction in PM linear motor drives		5
70	Implementation and experimental validation of ultra-high speed PMSM sensor-less control by means of extended Kalman filter. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2020**, 1-1	5.6	5
69	**2013**,		4
68	Design and performance of a power train for mild-hybrid motorcycle prototype **2013**,		4
67	Investigation on the self-sensing capability of a fractional-slot inset PM motor **2013**,		4
66	A moving horizon estimator for the speed and rotor position of a sensorless PMSM drive **2017**,		4
65	Mild-hybrid traction system based on a bidirectional half-bridge interleaved converter and a three-level active NPC inverter-fed PMSM **2012**,		4
64	Rotor design arrangement of SPM motors for the sensorless control at low speed and standstill **2010**,		4
63	IM rotor parameters analysis with an intentionally created saliency **2010**,		4
62	Nano-CHP for home application: Control and electric drive design **2012**,		4
61	Predicted and experimental anisotropy of a dual three-phase interior permanent magnet motor for sensorless rotor position control **2012**,		4
60	IPM Machine Drive Design and Tests for an Integrated Starter-Alternator Application **2008**,		4
59	Torque harmonic compensation in a synchronous reluctance motor		4
58	Fractional-slot PM motors for electric power steering systems. *International Journal of Vehicle Autonomous Systems*, **2004**, 2, 189	0.4	4
57	Control Design of a Steer-by-Wire System with High Performance PM Motor Drives		4
56	Design Considerations for a Tubular Linear PM Servo Motor. *EPE Journal (European Power Electronics and Drives Journal)*, **2001**, 11, 41-47	0.4	4
55	The crowded axis of the frequency: Optimal pole/zero allocation for a full speed sensorless synchronous motor drives **2016**,		4

54	D-axis polarity detection for IPM synchronous motor drives by high frequency voltage injection **2016**,		4
53	Outer rotor IPM generator with wide constant power region for automotive applications **2014**,		3
52	A new control strategy for high efficiency wide speed range synchronous reluctance motor drives **2017**,		3
51	An effective voltage control loop for a deep flux-weakening in IPM synchronous motor drives **2017**,		3
50	Active Torque Ripple Damping in Direct Drive Range Extender Applications: A Comparison and an Original Proposal **2015**,		3
49	Computation and measurement of high frequency parameters in a synchronous machine **2015**,		3
48	A test bench for hybrid propulsion train research and development **2014**,		3
47	Analysis and experimental tests of the sensorless capability of a fractional-slot inset PM motor **2012**,		3
46	Sensorless rotor position detection capability of a dual three-phase fractional-slot IPM machine **2011**,		3
45	Finite element modeling of induction motor for variable speed drives. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2010**, 29, 1245-1256	0.7	3
44	Torque/power rating design of an IPM machine for maximum profit-to-cost ratio in wind power generation **2011**,		3
43	A finite-element procedure to compute variable speed induction machine performance **2009**,		3
42	Mild hybrid motorcycles: Choice of the energy storage system **2012**,		3
41	Effective control of an Integrated Starter-Alternator with an IPM synchronous machine. *Power Electronics Specialist Conference (PESC), IEEE*, **2008**,		3
40	A rapid prediction of IM performance using a combined analytical and finite element analysis **2007**,		3
39	High Dynamic Electromechanical Conversion Model for PMSM Drives **2007**,		3
38	New Perspectives for Electrical Motors in Adjustable Speed Drives. *EPE Journal (European Power Electronics and Drives Journal)*, **2004**, 14, 6-11	0.4	3
37	High dynamic PMSM current control by optimal saturation management of current regulators		3

36	. *IEEE Transactions on Industry Applications*, **1993**, 29, 181-186	4.3	3
35	Fast Solver for Implicit Continuous Set Model Predictive Control of Electric Drives. *IEEE Access*, **2022**, 1-1	3.5	3
34	Model Predictive Hysteresis Current Control for wide speed operation of a Synchronous Reluctance machine drive **2016**,		3
33	Sensorless control of a super-high speed synchronous motor drive based on a Kalman filter **2016**,		3
32	Self-Sensing-Oriented Optimization of Synchronous Reluctance Machine Design **2019**,		3
31	Moving Horizon Estimator of PMSM N Onlinearities **2018**,		3
30	Active-Flux-Based Motion-Sensorless Control of PMSM Using Moving Horizon Estimator **2018**,		3
29	Test bench for emulating a variety of salient rotor electrical propulsion machines with a single permanent-magnet synchronous machine drive. *IET Electrical Systems in Transportation*, **2017**, 7, 55-64	2.1	2
28	A Novel Formulation of Continuous Control Set MPC for Induction Motor Drives **2019**,		2
27	Real-time disturbance compensation algorithm for the current control of PMSM drives **2017**,		2
26	MHE-MPC Based Control Architecture of an LCL Filter Grid-Connected PWM Inverter **2019**,		2
25	Bidirectional PMSM drive employing a three level ANPC inverter and a multi-phase interleaved DC/DC converter for hybrid electric vehicles **2014**,		2
24	Integrated-Starter/Alternator with sensorless ringed-pole PM synchronous motor drive **2013**,		2
23	Effective formulation of the DTC strategy for convergence and stability analysis - The IPM motor drive case study **2013**,		2
22	A new proposal of rotor position estimation in IPM motor drives based on PWM current harmonics **2010**,		2
21	Thermal analysis of a five-phase motor under faulty operations **2011**,		2
20	A design-oriented model of doubly-fed induction machine **2011**,		2
19	Finite element modeling of induction motor for variable speed drives **2008**,		2

18	Sensorless-Oriented-Design of PM Motors. *Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)*, **2007**,		2
17	Lamination Design of a Set of Induction Motors for Elevator Systems **2007**,		2
16	Digital Twins as Electric Motor Soft-Sensors in the Automotive Industry **2021**,		2
15	A robust current control based on proportional-integral observers for permanent magnet synchronous machines **2016**,		2
14	Continuous Control Set Model Predictive Current Control of a Microgrid-Connected PWM Inverter. *IEEE Transactions on Power Systems*, **2021**, 36, 415-425	7	2
13	**2017**,		1
12	Effective sensorless model predictive direct torque control for a doubly fed induction machine **2017**,		1
11	High frequency d-q model of synchronous machines for sensorless control **2014**,		1
10	Interior permanent magnet integrated starter-alternator. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2011**, 30, 117-136	0.7	1
9	Efficient conditioning of energy in AFE-based Distributed Generation units **2010**,		1
8	Design of a flux weakening control scheme for DC motor drives featuring full voltage operation **2008**,		1
7	High performance Direct Power Control for a doubly fed induction generator **2016**,		1
6	Effective sensorless Direct Torque Control for an induction motor drive with reduced ripple contents **2016**,		1
5	Predictive Power Control for a Linearized Doubly Fed Induction Generator Model **2019**,		1
4	Robust Predictive Current Control for a Sensorless IM Drive Based on Torque Angle Regulation **2019**,		1
3	Current Ripple Minimisation in Deadbeat Parameter-Free Predictive Control of Synchronous Motor Drives. *IEEE Open Journal of Industry Applications*, **2021**, 1-1	4.7	1
2	Implicit predictive flux control for high-performance induction motor drives. *Electrical Engineering*, **2021**, 103, 373-395	1.5	0
1	Field-weakening in high-performance PMSM drives. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2002**, 21, 338-354	0.7	