Federico Barrero

List of Publications by Citations

193 papers	**5,584** citations	**40** h-index	**69** g-index
221 ext. papers	**6,703** ext. citations	**4.2** avg, IF	**6.25** L-index

#	Paper	IF	Citations
193	Recent Advances in the Design, Modeling, and Control of Multiphase Machines–Part I. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 449-458	8.9	410
192	Recent Advances in the Design, Modeling, and Control of Multiphase Machines–Part II. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 459-468	8.9	350
191	Speed Control of Five-Phase Induction Motors With Integrated Open-Phase Fault Operation Using Model-Based Predictive Current Control Techniques. *IEEE Transactions on Industrial Electronics*, **2014**, 61, 4474-4484	8.9	161
190	Model Predictive Control of Six-Phase Induction Motor Drives Using Virtual Voltage Vectors. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 27-37	8.9	153
189	A Proof of Concept Study of Predictive Current Control for VSI-Driven Asymmetrical Dual Three-Phase AC Machines. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 1937-1954	8.9	150
188	Multiphase machines and drives - Revisited. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 429-432	8.9	144
187	Comparative Study of Predictive and Resonant Controllers in Fault-Tolerant Five-Phase Induction Motor Drives. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 606-617	8.9	140
186	Open-Phase Fault-Tolerant Direct Torque Control Technique for Five-Phase Induction Motor Drives. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 902-911	8.9	117
185	Variable-Speed Five-Phase Induction Motor Drive Based on Predictive Torque Control. *IEEE Transactions on Industrial Electronics*, **2013**, 60, 2957-2968	8.9	113
184	An Enhanced Predictive Current Control Method for Asymmetrical Six-Phase Motor Drives. *IEEE Transactions on Industrial Electronics*, **2011**, 58, 3242-3252	8.9	107
183	. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 1974-1983	8.9	105
182	Parameter Identification of Multiphase Induction Machines With Distributed Windings–Part 1: Sinusoidal Excitation Methods. *IEEE Transactions on Energy Conversion*, **2012**, 27, 1056-1066	5.4	104
181	A technological acceptance of e-learning tools used in practical and laboratory teaching, according to the European higher education area 1 1. This research has been funded by the Spanish Education and Science Ministry, in its Study and Analysis Programme (EA2005 □0176). View all notes. *Behaviour and Information Technology*, **2008**, 27, 495-505	2.4	104
180	Predictive Current Control of Dual Three-Phase Drives Using Restrained Search Techniques. *IEEE Transactions on Industrial Electronics*, **2011**, 58, 3253-3263	8.9	103
179	A survey on probabilistic broadcast schemes for wireless ad hoc networks. *Ad Hoc Networks*, **2015**, 25, 263-292	4.8	87
178	Predictive-space vector PWM current control method for asymmetrical dual three-phase induction motor drives. *IET Electric Power Applications*, **2010**, 4, 26	1.8	86
177	Parameter Identification of Multiphase Induction Machines With Distributed Windings–Part 2: Time-Domain Techniques. *IEEE Transactions on Energy Conversion*, **2012**, 27, 1067-1077	5.4	84

176	A Simple, Fast, and Robust Open-Phase Fault Detection Technique for Six-Phase Induction Motor Drives. *IEEE Transactions on Power Electronics*, **2018**, 33, 547-557	7.2	80
175	Comparative Analysis of Discontinuous and Continuous PWM Techniques in VSI-Fed Five-Phase Induction Motor. *IEEE Transactions on Industrial Electronics*, **2011**, 58, 5324-5335	8.9	80
174	Space-Vector PWM With Reduced Common-Mode Voltage for Five-Phase Induction Motor Drives. *IEEE Transactions on Industrial Electronics*, **2013**, 60, 4159-4168	8.9	79
173	Reduction of Common-Mode Voltage in Five-Phase Induction Motor Drives Using Predictive Control Techniques. *IEEE Transactions on Industry Applications*, **2012**, 48, 2059-2067	4.3	78
172	Multi-phase current control using finite-state model-predictive control. *Control Engineering Practice* , **2009**, 17, 579-587	3.9	78
171	IGBT-Gating Failure Effect on a Fault-Tolerant Predictive Current-Controlled Five-Phase Induction Motor Drive. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 15-20	8.9	77
170	Analysis of virtual communities supporting OSS projects using social network analysis. *Information and Software Technology*, **2010**, 52, 296-303	3.4	77
169	Space Vector PWM With Reduced Common-Mode Voltage for Five-Phase Induction Motor Drives Operating in Overmodulation Zone. *IEEE Transactions on Power Electronics*, **2013**, 28, 4030-4040	7.2	75
168	Open-Switch Fault Detection in Five-Phase Induction Motor Drives Using Model Predictive Control. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 3045-3055	8.9	72
167	Speed control of induction motors using a novel fuzzy sliding-mode structure. *IEEE Transactions on Fuzzy Systems*, **2002**, 10, 375-383	8.3	69
166	An Experimental Assessment of Open-Phase Fault-Tolerant Virtual-Vector-Based Direct Torque Control in Five-Phase Induction Motor Drives. *IEEE Transactions on Power Electronics*, **2018**, 33, 2774-2784	7.2	66
165	An empirical study of the driving forces behind online communities. *Internet Research*, **2009**, 19, 378-392	4.8	64
164	An Enhanced Background Estimation Algorithm for Vehicle Detection in Urban Traffic Scenes. *IEEE Transactions on Vehicular Technology*, **2010**, 59, 3694-3709	6.8	60
163	A Survey on Multihop Ad Hoc Networks for Disaster Response Scenarios. *International Journal of Distributed Sensor Networks*, **2015**, 2015, 1-16	1.7	58
162	Optimal Fault-Tolerant Control of Six-Phase Induction Motor Drives With Parallel Converters. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 629-640	8.9	57
161	Fault-Tolerant Operation of Six-Phase Energy Conversion Systems With Parallel Machine-Side Converters. *IEEE Transactions on Power Electronics*, **2016**, 31, 3068-3079	7.2	57
160	Switching Ripple Characteristics of Space Vector PWM Schemes for Five-Phase Two-Level Voltage Source Inverters—Part 1: Flux Harmonic Distortion Factors. *IEEE Transactions on Industrial Electronics*, **2011**, 58, 2789-2798	8.9	57
159	Switching Ripple Characteristics of Space Vector PWM Schemes for Five-Phase Two-Level Voltage Source Inverters—Part 2: Current Ripple. *IEEE Transactions on Industrial Electronics*, **2011**, 58, 2799-2808	8.9	55

#			
158	Five-Phase Induction Motor Rotor Current Observer for Finite Control Set Model Predictive Control of Stator Current. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 4527-4538	8.9	52
157	Fault-Tolerant Control of Six-Phase Induction Motor Drives With Variable Current Injection. *IEEE Transactions on Power Electronics*, **2017**, 32, 7894-7903	7.2	48
156	Online Estimation of Rotor Variables in Predictive Current Controllers: A Case Study Using Five-Phase Induction Machines. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 5348-5356	8.9	48
155	SVM Procedure for n-Phase VSI With Low Harmonic Distortion in the Overmodulation Region. *IEEE Transactions on Industrial Electronics*, **2014**, 61, 92-97	8.9	45
154	Impact of Postfault Flux Adaptation on Six-Phase Induction Motor Drives With Parallel Converters. *IEEE Transactions on Power Electronics*, **2017**, 32, 515-528	7.2	41
153	Assessment of Virtual-Voltage-Based Model Predictive Controllers in Six-Phase Drives Under Open-Phase Faults. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2020**, 8, 2634-2644	5.6	39
152	The Role of Ad Hoc Networks in the Internet of Things: A Case Scenario for Smart Environments. *Studies in Computational Intelligence*, **2013**, 89-113	0.8	38
151	Analysis of utility and use of a web-based tool for digital signal processing teaching by means of a technological acceptance model. *Computers and Education*, **2007**, 49, 957-975	9.5	38
150	Influence of Covariance-Based ALS Methods in the Performance of Predictive Controllers With Rotor Current Estimation. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 2602-2607	8.9	33
149	An evolutionary computation approach for optimizing connectivity in disaster response scenarios. *Applied Soft Computing Journal*, **2013**, 13, 833-845	7.5	32
148	The moderating role of prior experience in technological acceptance models for ubiquitous computing services in urban environments. *Technological Forecasting and Social Change*, **2015**, 91, 146-160	9.5	30
147	Modelling and assessing ad hoc networks in disaster scenarios. *Journal of Ambient Intelligence and Humanized Computing*, **2013**, 4, 571-579	3.7	30
146	Multiphase Electric Drives: Introduction **2017**, 1-26		30
145	Environmental wireless sensor network for road traffic applications. *IET Intelligent Transport Systems*, **2012**, 6, 177	2.4	29
144	Virtual communities as a resource for the development of OSS projects: the case of Linux ports to embedded processors. *Behaviour and Information Technology*, **2009**, 28, 405-419	2.4	29
143	The role of Internet in the development of future software projects. *Internet Research*, **2010**, 20, 72-86	4.8	28
142	A learning methodology using Matlab/Simulink for undergraduate electrical engineering courses attending to learner satisfaction outcomes. *International Journal of Technology and Design Education*, **2007**, 17, 55-73	1.1	28
141	Multi-objective performance optimization of a probabilistic similarity/dissimilarity-based broadcasting scheme for mobile ad hoc networks in disaster response scenarios. *Soft Computing*, **2014**, 18, 1745-1756	3.5	27

140	Implementation of a web-based educational tool for digital signal processing teaching using the technological acceptance model. *IEEE Transactions on Education*, **2005**, 48, 632-641	2.1	27
139	Evaluation of Ad Hoc Networks in Disaster Scenarios **2011**,		26
138	An Intelligent Strategy for Tactical Movements of UAVs in Disaster Scenarios. *International Journal of Distributed Sensor Networks*, **2016**, 12, 8132812	1.7	26
137	Sensitivity of predictive controllers to parameter variation in five-phase induction motor drives. *Control Engineering Practice*, **2017**, 68, 23-31	3.9	25
136	On-siteDriverID: A secure authentication scheme based on Spanish eID cards for vehicular ad hoc networks. *Future Generation Computer Systems*, **2016**, 64, 50-60	7.5	25
135	Trade-offs analysis in predictive current control of multi-phase induction machines. *Control Engineering Practice*, **2018**, 81, 105-113	3.9	25
134	Understanding Power Electronics and Electrical Machines in Multidisciplinary Wind Energy Conversion System Courses. *IEEE Transactions on Education*, **2013**, 56, 174-182	2.1	24
133	A digital signal processing teaching methodology using concept-mapping techniques. *IEEE Transactions on Education*, **2005**, 48, 422-429	2.1	24
132	A Simple Braking Method for Six-Phase Induction Motor Drives With Unidirectional Power Flow in the Base-Speed Region. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 6032-6041	8.9	23
131	Hybrid Flooding Scheme for Mobile Ad Hoc Networks. *IEEE Communications Letters*, **2013**, 17, 592-595	3.8	22
130	A comprehensive fault analysis of a five-phase induction motor drive with an open phase **2012**,		22
129	Current paradigms in intelligent transportation systems. *IET Intelligent Transport Systems*, **2010**, 4, 201	2.4	22
128	Addressing Learner Satisfaction Outcomes in Electronic Instrumentation and Measurement Laboratory Course Organization. *IEEE Transactions on Education*, **2007**, 50, 129-136	2.1	22
127	Improving discovery phase of reactive ad hoc routing protocols using Jaccard distance. *Journal of Supercomputing*, **2014**, 67, 131-152	2.5	21
126	Fault-tolerant current predictive control of five-phase induction motor drives with an open phase **2011**,		20
125	Multiphase machines in propulsion drives of electric vehicles **2010**,		20
124	Improved sigma-delta background estimation for vehicle detection. *Electronics Letters*, **2009**, 45, 32	1.1	20
123	Multiphase rotor current observers for current predictive control: A five-phase case study. *Control Engineering Practice*, **2016**, 49, 101-111	3.9	19

122	eDSPLab: remote laboratory for experiments on DSP applications. *Internet Research*, **2008**, 18, 79-92	4.8	19
121	Multiphase Energy Conversion Systems Connected to Microgrids With Unequal Power-Sharing Capability. *IEEE Transactions on Energy Conversion*, **2017**, 32, 1386-1395	5.4	18
120	Sensitivity to electrical parameter variations of Predictive Current Control in multiphase drives **2013**,		18
119	Real-time implementation of multi-dimensional five-phase space vector pulse-width modulation. *Electronics Letters*, **2007**, 43, 949	1.1	18
118	Standard and Non-Standard Approaches for Voltage Synchronization of Drive Inverters with Space-Vector PWM: a Survey. *International Review of Electrical Engineering*, **2014**, 9, 688	1.9	18
117	A methodology for structured ontology construction applied to intelligent transportation systems. *Computer Standards and Interfaces*, **2016**, 47, 108-119	3.5	17
116	An evolutionary computation approach for designing mobile ad hoc networks. *Expert Systems With Applications*, **2012**, 39, 6838-6845	7.8	17
115	An electronic engineering curriculum design based on concept-mapping techniques. *International Journal of Technology and Design Education*, **2007**, 17, 341-356	1.1	17
114	Output current ripple analysis for asymmetrical six-phase drives using double zero-sequence injection PWM **2011**,		15
113	A Survey on Ad Hoc Networks for Disaster Scenarios **2014**,		14
112	Networked transducers in intelligent transportation systems based on the IEEE 1451 standard. *Computer Standards and Interfaces*, **2014**, 36, 300-311	3.5	13
111	Identification of the design variables of eLearning tools. *Interacting With Computers*, **2011**, 23, 279-288	1.6	13
110	Embedded Multimedia Processors for Road-Traffic Parameter Extension. *Computer*, **2009**, 42, 61-68	1.6	13
109	Predictive current control in electrical drives: an illustrated review with case examples using a five-phase induction motor drive with distributed windings. *IET Electric Power Applications*, **2020**, 14, 1291-1310	1.8	13
108	A text categorisation tool for open source communities based on semantic analysis. *Behaviour and Information Technology*, **2013**, 32, 532-544	2.4	12
107	Predictive Torque Control for five-phase induction motor drives **2010**,		12
106	An evaluation methodology for reliable simulation based studies of routing protocols in VANETs. *Simulation Modelling Practice and Theory*, **2016**, 66, 139-165	3.9	12
105	Assessment of a Universal Reconfiguration-less Control Approach in Open-Phase Fault Operation for Multiphase Drives. *Energies*, **2019**, 12, 4698	3.1	12

104	Model predictive current controller using Kalman filter for fault-tolerant five-phase wind energy conversion systems **2016**,		11
103	Internet in the development of future road-traffic control systems. *Internet Research*, **2010**, 20, 154-168	4.8	11
102	Web site structure mining using social network analysis. *Internet Research*, **2011**, 21, 104-123	4.8	11
101	Performance Evaluation of Reactive Routing Protocols for VANETs in Urban Scenarios Following Good Simulation Practices **2015**,		10
100	Harmonic analysis of direct digital control of voltage inverters. *Mathematics and Computers in Simulation*, **2016**, 130, 155-166	3.3	10
99	Authentication Systems Using ID Cards over NFC Links: The Spanish Experience Using DNIe. *Procedia Computer Science*, **2013**, 21, 91-98	1.6	10
98	Identification of new added value services on intelligent transportation systems. *Behaviour and Information Technology*, **2013**, 32, 307-320	2.4	10
97	Planning a Master's Level Curriculum According to Career Space Recommendations Using Concept Mapping Techniques. *International Journal of Technology and Design Education*, **2006**, 16, 237-252	1.1	10
96	Cost function optimization for predictive control of a five-phase IM drive. *Optimal Control Applications and Methods*, **2020**, 41, 84-93	1.7	10
95	A Self Organising Aerial Ad Hoc Network Mobility Model for Disaster Scenarios **2015**,		9
94	Distributed urban traffic applications based on CORBA event services. *International Journal of Space-Based and Situated Computing*, **2011**, 1, 86	0.3	9
93	A Reliable Route Selection Scheme Based on Caution Zone and Nodes' Arrival Angle. *IEEE Communications Letters*, **2011**, 15, 1252-1255	3.8	9
92	Intelligent Transportation Systems and Wireless Access in Vehicular Environment Technology for Developing Smart Cities. *Studies in Computational Intelligence*, **2014**, 285-313	0.8	9
91	Model predictive optimal control considering current and voltage limitations: Real-time validation using OPAL-RT technologies and five-phase permanent magnet synchronous machines. *Mathematics and Computers in Simulation*, **2019**, 158, 148-161	3.3	8
90	A simple braking method for six-phase induction motor drives with diode front-end rectifier **2015**,		8
89	Extension of the DTC Technique to Multiphase Induction Motor Drives Using Any Odd Number of Phases **2014**,		8
88	Modeling Learner Satisfaction in an Electronic Instrumentation and Measurement Course Using Structural Equation Models. *IEEE Transactions on Education*, **2009**, 52, 190-199	2.1	8
87	An Exploratory Social Network Analysis of Academic Research Networks **2011**,		8

86	Estimation of the electrical parameters of a five-phase induction machine using standstill techniques. Part I: Theoretical discussions **2011**,		8
85	Predictive current control with modulation in asymmetrical six-phase motor drives **2012**,		8
84	Improved techniques of restrained search predictive control for multiphase drives **2009**,		8
83	Interactive multimedia teaching of digital signal processors. *Computer Applications in Engineering Education*, **2007**, 15, 88-98	1.6	8
82	eDSPlab: A remote-accessed instrumentation laboratory for digital signal processors training based on the Internet. *Industrial Electronics Society (IECON), Annual Conference of IEEE*, **2006**,		8
81	Model-Based Control for Power Converters With Variable Sampling Time: A Case Example Using Five-Phase Induction Motor Drives. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 5800-5809	8.9	8
80	Direct torque control for five-phase induction motor drives with reduced common-mode voltage **2012**,		7
79	Analysis of embedded CORBA middleware performance on urban distributed transportation equipments. *Computer Standards and Interfaces*, **2013**, 35, 150-157	3.5	7
78	Dual-rate background subtraction approach for estimating traffic queue parameters in urban scenes. *IET Intelligent Transport Systems*, **2013**, 7, 122-130	2.4	7
77	DC-bus utilization and overmodulation performance of five-phase voltage source inverters using model predictive control **2010**,		7
76	An Enhanced Background Estimation Algorithm for Vehicle Detection in Urban Traffic Video **2008**,		7
75	Improving learning performance in laboratory instruction by means of SMS messaging. *Innovations in Education and Teaching International*, **2007**, 44, 409-422	1.3	7
74	Assessing Variable Sampling Time Controllers for Five-Phase Induction Motor Drives. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 2523-2531	8.9	7
73	Fault-tolerant control of six-phase induction generators in wind energy conversion systems with series-parallel machine-side converters **2013**,		6
72	An evolutionary factor analysis computation for mining website structures. *Expert Systems With Applications*, **2012**, 39, 11623-11633	7.8	6
71	Predictive current control of dual three-phase drives using restrained search techniques and multi level voltage source inverters **2010**,		6
70	Stability analysis of five-phase induction motor drives with variable third harmonic injection. *Electric Power Systems Research*, **2010**, 80, 1459-1468	3.5	6
69	Efficient Model Predictive Control with Natural Fault-Tolerance in Asymmetrical Six-Phase Induction Machines. *Energies*, **2019**, 12, 3989	3.1	6

68	Model-Based Predictive Current Controllers in Multiphase Drives Dealing with Natural Reduction of Harmonic Distortion. *Energies*, **2019**, 12, 1679	3.1	5
67	Dynamically Reconfigurable WSN Node Based on ISO/IEC/IEEE 21451 TEDS. *IEEE Sensors Journal*, **2015**, 15, 2567-2576	4	5
66	Learning Achievements Using a PBL-Based Methodology in an Introductory Electronics Course. *Revista Iberoamericana De Tecnologias Del Aprendizaje*, **2015**, 10, 296-301	1.2	5
65	Multiphase multi-inverter drive with discontinuous synchronized modulation **2012**,		5
64	An ontology-based semantic service for cooperative urban equipments. *Journal of Network and Computer Applications*, **2012**, 35, 2037-2050	7.9	5
63	Modeling of a five-phase induction motor drive with a faulty phase **2012**,		5
62	A shadow removal algorithm for vehicle detection based on reflectance ratio and edge density **2010**,		5
61	A modified continuous PWM technique for asymmetrical six-phase induction machines **2010**,		5
60	Analysis of the Core Team Role in Open Source Communities **2011**,		5
59	Estimation of the electrical parameters of a five-phase induction machine using standstill techniques. Part II: Practical implications **2011**,		5
58	Development of an Embedded Vision based Vehicle Detection System using an ARM Video Processor **2008**,		5
57	Multi-Dimensional Space Vector Pulse Width Modulation Scheme for Five-Phase Series-Connected Two-Motor Drives **2007**,		5
56	Real-Time Implementation of Multi-Dimensional Five-Phase Space Vector PWM Using Look-Up Table Techniques **2007**,		5
55	Multiphase current imbalance localisation method applied to natural fault-tolerant strategies. *IET Electric Power Applications*, **2020**, 14, 1421-1429	1.8	5
54	Predictive controller considering electrical constraints: a case example for five-phase induction machines. *IET Electric Power Applications*, **2019**, 13, 1079-1088	1.8	5
53	Performance Analysis of Direct Torque Controllers in Five-Phase Electrical Drives. *Applied Sciences (Switzerland)*, **2021**, 11, 11964	2.6	5
52	Interest and Applicability of Meta-Heuristic Algorithms in the Electrical Parameter Identification of Multiphase Machines. *Energies*, **2019**, 12, 314	3.1	4
51	The role of congestion in probabilistic broadcasting for ubiquitous wireless multi-hop networks through mediation analysis. *Pervasive and Mobile Computing*, **2015**, 24, 16-29	3.5	4

#	Title		
50	Reduced-order Observer Analysis in MBPC Techniques Applied to the Six-phase Induction Motor Drives **2015**,		4
49	Open-phase fault operation of 5-phase induction motor drives using DTC techniques **2015**,		4
48	Comparative study of DTC and RFOC methods for the open-phase fault operation of a 5-phase induction motor drive **2015**,		4
47	An Evolutionary Computational Approach for Optimizing Broadcasting in Disaster Response Scenarios **2013**,		4
46	Analytical Evaluation of Switching Characteristics in Five-Phase Drives with Discontinuous Space Vector Pulse Width Modulation Techniques. *EPE Journal (European Power Electronics and Drives Journal)*, **2013**, 23, 24-33	0.4	4
45	Enhanced predictive current control method for the asymmetrical dual three phase induction machine **2009**,		4
44	Self-commissioning for voltage-referenced voltage-fed vector controlled induction motor drives		4
43	An Open-phase Fault Detection Method for Six-phase Induction Motor Drives. *Renewable Energy and Power Quality Journal*, **2017**, 1, 473-478		4
42	A License Plate Extraction Algorithm Based on Edge Statistics and Region Growing. *Lecture Notes in Computer Science*, **2009**, 317-326	0.9	4
41	Reduction of common-mode voltage using a simplified FSC-MPC for a five-phase induction motor drive. *Journal of Engineering*, **2019**, 2019, 3772-3777	0.7	3
40	Six-phase motor drive with variable switching frequencies and voltage synchronization of inverters **2015**,		3
39	Five-phase induction machine parameter identification using PSO and standstill techniques **2015**,		3
38	Synchronous modulation of cascaded inverters of asymmetrical open-end winding motor drive **2012**,		3
37	Route duration improvement in wireless sensor and actuator networks based on mobility parameters and flooding control. *Eurasip Journal on Wireless Communications and Networking*, **2012**, 2012,	3.2	3
36	Experimental magnetizing inductance identification in five-phase induction machines **2013**,		3
35	Multi-dimensional space vector pulse width modulation for disturbance-free operation of a five-phase AC motor drive **2007**,		3
34	Fuzzy logic control of a variable speed, variable pitch wind turbine		3
33	Constraint Satisfaction in Current Control of a Five-Phase Drive with Locally Tuned Predictive Controllers. *Energies*, **2019**, 12, 2715	3.1	2

32	Resistance dissymmetry localization method based on vector space decomposition approach for six-phase induction machines **2017**,		2
31	A Dissemination Analysis in Mobile Wireless Ad Hoc Networks Using Probabilistic Broadcast **2014**,		2
30	A reconfigurable WSN node based on ISO/IEC/IEEE 21451 standard **2014**,		2
29	Wind energy conversion system course for electrical engineers. Part 1: Theoretical background **2012**,		2
28	Optimization of network lifetime through energy-efficient broadcast scheme using dynamic random walk **2012**,		2
27	A Wireless In-door System for Assisting Victims and Rescue Equipments in a Disaster Management **2010**,		2
26	A framework for WSN using TinyOS and the IEEE1451 standard **2011**,		2
25	Dynamic communication architecture for intelligent rail network governance **2012**,		2
24	Speed control of five-phase induction motor drives with an open phase fault condition and predictive current control methods **2012**,		2
23	Multi-sensor integration in the vehicular system using the IEEE1451 Std.: A case study **2009**,		2
22	Sigma-Delta modulation for multiphase drives **2009**,		2
21	ASITRON: ASIC for vectorial control of induction motors and speed regulation using fuzzy-logic		2
20	A switching fuzzy controller for induction motor with self-tuning capability		2
19			2
18	Aplicación de algoritmos genéticos a la identificación de la estructura de enlaces en portales web. *Revista Espanola De Documentacion Cientifica*, **2011**, 34, 232-252	0.7	2
17	Harmonic Distribution in Finite State Model Predictive Control. *International Review of Electrical Engineering*, **2015**, 10, 172	1.9	2
16	Multi-inverter split-phase traction drive with nonlinear control modes and voltage symmetries **2016** ,		2
15	Adaptive Cost Function FCSMPC for 6-Phase IMs. *Energies*, **2021**, 14, 5222	3.1	2

14	Combined PWM control of multi-inverter installation with two DC-links **2015**,		1
13	Problem Based Learning Case in a Control Undergraduate Subject. *IFAC-PapersOnLine*, **2015**, 48, 182-187	0.7	1
12	Harmonic content in VSI operated with homogeneous pulse width **2013**,		1
11	Ubiquitous architecture for environmental sensor networks in road traffic applications **2010**,		1
10	Restrained search predictive control for five-phase dual-inverter supplied loads **2011**,		1
9	An improvement of route duration in WSAN based on nodes' mobility and RSS **2011**,		1
8	Networked Electronic Equipments Using the IEEE 1451 Standard VisioWay: A Case Study in the ITS Area. *International Journal of Distributed Sensor Networks*, **2012**, 8, 467124	1.7	1
7	Reforming ICT Graduate Programs to Meet Professional Needs. *Computer*, **2010**, 43, 22-29	1.6	1
6	Tolerancia al Fallo en Control Directo de Par con Vectores Virtuales de Tensión. *RIAI - Revista Iberoamericana De Automatica E Informatica Industrial*, **2018**, 16, 56	1.5	1
5	ANALYSIS AND SYNTHESIS OF SYMMETRICAL OUTPUT VOLTAGE OF THREE-LEVEL CONVERTERS WITH SPACE-VECTOR PWM. *Technical Electrodynamics*, **2016**, 2016, 17-19	0.5	1
4	Predictive Control of Multi-Phase Motor for Constant Torque Applications. *Machines*, **2022**, 10, 211	2.9	1
3	Predictive Stator Current Control of a Five-phase Motor using a Hybrid Control Set. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2022**, 1-1	5.6	1
2	ESTUDIO Y ANÁLISIS DE LAS LISTAS DE DISTRIBUCIÓN EN PROYECTOS DE SOFTWARE DE CÓDIGO ABIERTO COMO MEDIO PARA COMPARTIR CONOCIMIENTO. *Investigaciones Europeas De Dirección Y Economía De La Empresa*, **2008**, 14, 79-90		
1	SMALL-SCALE DOMOTIC SYSTEM AS PROTOTYPE OF REMOTE CYBERNETIC APPLICATIONS. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2006**, 39, 499-504		