

Babak Nahid

List of Publications by Year in descending order

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249
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times ranked

3316
citing authors

#	ARTICLE	IF	CITATIONS
1	Induced Current Reduction in Position-Sensorless SRM Drives Using Pulse Injection. IEEE Transactions on Industrial Electronics, 2023, 70, 4620-4630.	5.2	9
2	Digital Sliding Mode Based Model-Free PWM Current Control of Switched Reluctance Machines. IEEE Transactions on Industrial Electronics, 2022, 69, 8760-8769.	5.2	5
3	Survivability-Based Protection for Electric Motor Drive Systems-Part I: 3ϕ Induction Motor Drives. IEEE Transactions on Industry Applications, 2022, 58, 1797-1808.	3.3	7
4	Design, Modeling, and Model-Free Control of Permanent Magnet-Assisted Synchronous Reluctance Motor for e-Vehicle Applications. Sustainability, 2022, 14, 5423.	1.6	1
5	Model-Based and Model-Free of Torque and Speed Controls for PMa-SynRM Drive System. , 2022, , .		0
6	Adaptive Voltage Controller for Flux-weakening Operation in PMa-SynRM Drives. , 2022, , .		0
7	Survivability-Based Protection for Three Phase Permanent Magnet Synchronous Motor Drives. IEEE Transactions on Industry Applications, 2022, , 1-8.	3.3	0
8	A Review on Switched Reluctance Generators in Wind Power Applications: Fundamentals, Control and Future Trends. IEEE Access, 2022, 10, 69412-69427.	2.6	14
9	Large-Signal Stable Nonlinear Control of DC/DC Power Converter With Online Estimation of Uncertainties. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 7355-7368.	3.7	14
10	Series hybrid fuel cell/supercapacitor power source. Mathematics and Computers in Simulation, 2021, 184, 21-40.	2.4	11
11	Design and control of multiphase interleaved boost converters-based on differential flatness theory for PEM fuel cell multi-stack applications. International Journal of Electrical Power and Energy Systems, 2021, 124, 106346.	3.3	26
12	Current Sensorless Control for WRSM Using Model-Free Adaptive Control. IEEE Transactions on Transportation Electrification, 2021, 7, 683-693.	5.3	15
13	Influencing Parameters on Discharge Bearing Currents in Inverter-Fed Induction Motors. IEEE Transactions on Energy Conversion, 2021, 36, 940-949.	3.7	18
14	Toward Stabilization of Constant Power Loads Using IDA-PBC for Cascaded LC Filter DC/DC Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 1302-1314.	3.7	29
15	Stability Improvement of Cascaded Power Conversion Systems Based on Hamiltonian Energy Control Theory. IEEE Transactions on Industry Applications, 2021, 57, 1081-1093.	3.3	16
16	A Review of Fixed Switching Frequency Current Control Techniques for Switched Reluctance Machines. IEEE Access, 2021, 9, 39375-39391.	2.6	13
17	Large-Signal Stabilization of Power Converters Cascaded Input Filter Using Adaptive Energy Shaping Control. IEEE Transactions on Transportation Electrification, 2021, 7, 838-853.	5.3	11
18	Robust Hamiltonian Energy Control Based on Lyapunov Function for Four-Phase Parallel Fuel Cell Boost Converter for DC Microgrid Applications. IEEE Transactions on Sustainable Energy, 2021, 12, 1500-1511.	5.9	21

#	ARTICLE	IF	CITATIONS
19	Improved Adaptive Hamiltonian Control Law for Constant Power Load Stability Issue in DC Microgrid: Case Study for Multiphase Interleaved Fuel Cell Boost Converter. Sustainability, 2021, 13, 8093.	1.6	4
20	Design, Modeling, and Differential Flatness Based Control of Permanent Magnet-Assisted Synchronous Reluctance Motor for e-Vehicle Applications. Sustainability, 2021, 13, 9502.	1.6	5
21	Magnetic Model Identification of Wound Rotor Synchronous Machine Using a Novel Flux Estimator. IEEE Transactions on Industry Applications, 2021, 57, 5389-5399.	3.3	9
22	A Robust Self-Commissioning Technique for Identification of the VSI Nonlinearity Effect in IPMSM Drives. , 2021, , .		2
23	Comprehensive Online Parameters Identification of Wound Rotor Synchronous Machine (WRSM) by Proposing Two New Parameters and Using Kalman Observer. , 2020, , .		2
24	Differential Flatness Based-Control Strategy of a Two-Port Bidirectional Supercapacitor Converter for Hydrogen Mobility Applications. Energies, 2020, 13, 2794.	1.6	8
25	Modeling and Control of Multiphase Interleaved Fuel-Cell Boost Converter Based on Hamiltonian Control Theory for Transportation Applications. IEEE Transactions on Transportation Electrification, 2020, 6, 519-529.	5.3	34
26	Employing Fault Currents in the Reliability Analysis of Motor Drives. IEEE Transactions on Industry Applications, 2020, , 1-1.	3.3	4
27	Data-Driven Model-Free Adaptive Current Control of a Wound Rotor Synchronous Machine Drive System. IEEE Transactions on Transportation Electrification, 2020, 6, 1146-1156.	5.3	30
28	Average value modeling of six-pulse diode rectifier considering unbalance conditions in supply voltage and impedance. International Transactions on Electrical Energy Systems, 2020, 30, e12216.	1.2	0
29	Design and control of permanent magnet assisted synchronous reluctance motor with copper loss minimization using MTPA. Journal of Electrical Engineering, 2020, 71, 11-19.	0.4	18
30	Hamiltonian Control Law Based on Lyapunov's Energy Function for Four-Phase Parallel Fuel Cell Boost Converter. , 2020, , .		1
31	Comparative Study of Model-Based Control of Energy/Current Cascade Control for a Multiphase Interleaved Fuel Cell Boost Converter. , 2020, , .		1
32	Online Stator Flux Estimation for a Wound Rotor Synchronous Machine (WRSM). , 2020, , .		7
33	Hybrid maximum power point tracking algorithm with improved dynamic performance. Renewable Energy, 2019, 130, 982-991.	4.3	62
34	Current Sensorless Model Free Control Applied on PMSM Drive System. , 2019, , .		4
35	Improvement control of photovoltaic based water pumping system without energy storage. Solar Energy, 2019, 190, 319-328.	2.9	29
36	Interconnection and Damping Assignment Passivity-Based Control Applied to On-Board DC-DC Power Converter System Supplying Constant Power Load. IEEE Transactions on Industry Applications, 2019, 55, 6476-6485.	3.3	67

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37	Second Harmonic Current Reduction for a Battery-Driven Grid Interface With Three-Phase Dual Active Bridge DC-DC Converter. IEEE Transactions on Industrial Electronics, 2019, 66, 9056-9064.	5.2	21
38	Model Based Control of Battery/Supercapacitor Hybrid Source for Modern e-Vehicle. , 2019, , .		1
39	Model-Free Control of Multiphase Interleaved Boost Converter for Fuel Cell/Reformer Power Generation. , 2019, , .		7
40	Model Free-Based Torque Control of Permanent Magnet Synchronous Motor Drives. , 2019, , .		2
41	Study of Hamiltonian Energy Control of Multiphase Interleaved Fuel Cell Boost Converter. , 2019, , .		7
42	Differential Flatness-Based Energy/Current Cascade Control for Multiphase Interleaved Boost Fuel Cell Converter. , 2019, , .		1
43	Maximum Torque per Ampere and Field-weakening Controls for the High-Speed Operation of Permanent-Magnet Assisted Synchronous Reluctance Motors. , 2019, , .		2
44	Model-Based Control of Permanent-Magnet Assisted Synchronous Reluctance Motors. , 2019, , .		0
45	Improving the Stability of Cascaded DC-DC Converter Systems via the Viewpoints of Passivity-Based Control and Port-Controlled Hamiltonian Framework. , 2019, , .		8
46	Electrical-Sensorless Control of Induction Motor. , 2019, , .		2
47	Observer and Lyapunov-Based Control for Switching Power Converters With LC Input Filter. IEEE Transactions on Power Electronics, 2019, 34, 7053-7066.	5.4	27
48	Permanent Magnet Synchronous Motor Dynamic Modeling with State Observer-based Parameter Estimation for AC Servomotor Drive Application. Applied Science and Engineering Progress, 2019, 12, .	0.5	16
49	Nonlinear Differential Flatness-Based Speed/Torque Control With State-Observers of Permanent Magnet Synchronous Motor Drives. IEEE Transactions on Industry Applications, 2018, 54, 2874-2884.	3.3	48
50	A Comprehensive Study on Shaft Voltages and Bearing Currents in Rotating Machines. IEEE Transactions on Industry Applications, 2018, 54, 3749-3759.	3.3	107
51	Harmonic Power Sharing With Voltage Distortion Compensation of Droop Controlled Islanded Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 5335-5347.	6.2	58
52	Stability Analysis and Active Stabilization of On-board DC Power Converter System with Input Filter. IEEE Transactions on Industrial Electronics, 2018, 65, 790-799.	5.2	66
53	IDA-Passivity-Based Control for On-board DC Power Converter System with Constant Power Load. , 2018, , .		7
54	Active stabilisation design of DC-DC converters with constant power load using a sampled discrete-time model: stability analysis and experimental verification. IET Power Electronics, 2018, 11, 1519-1528.	1.5	20

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55	IDA-Passivity-Based Control for Boost Converter with LC Filter Supplying Constant Power Load. , 2018, , .		8
56	Control of an electric starter to a DC-embedded microgrid: Dynamical stability issue. , 2018, , .		1
57	Modeling of One-Loop Flatness-Based Control with State Observer-Based Parameter Estimation for PMSM Drive. , 2018, , .		1
58	DC Microgrid Topologies and Stability Analysis for Electrified Transportation Systems. , 2018, , .		4
59	Design of Permanent Magnet-Assisted Synchronous Reluctance Motors with Maximum Efficiency-Power Factor and Torque per Cost. , 2018, , .		10
60	Simple and Efficient Direct Torque Control of Induction Motor Based on Artificial Neural Networks. , 2018, , .		7
61	Robust Flatness-based Control with State Observer-Based Parameter Estimation for PMSM Drive. , 2018, , .		7
62	Research on LC Filter Cascaded with Buck Converter Supplying Constant Power Load Based on IDA-Passivity-Based Control. , 2018, , .		8
63	A Fixed-Frequency Optimization of PWM Current Controllerâ€™ Modeling and Design of Control Parameters. IEEE Transactions on Transportation Electrification, 2018, 4, 671-683.	5.3	10
64	Nonlinear Estimation of Stator Currents in a Wound Rotor Synchronous Machine. IEEE Transactions on Industry Applications, 2018, 54, 3858-3867.	3.3	13
65	Signal processing tools for non-stationary signals detection. , 2018, , .		2
66	Robust Flatness Control with Extended Luenberger Observer for PMSM Drive. , 2018, , .		9
67	Classification with automatic detection of unknown classes based on SVM and fuzzy MBF: Application to motor diagnosis. AIMS Electronics and Electrical Engineering, 2018, 2, 59-84.	0.8	1
68	Reliability Improvement Approach Based on Flatness Control of Parallel-Connected Inverters. IEEE Transactions on Power Electronics, 2017, 32, 681-692.	5.4	18
69	Discrete-Time Tool for Stability Analysis of DC Power Electronics-Based Cascaded Systems. IEEE Transactions on Power Electronics, 2017, 32, 652-667.	5.4	66
70	Evaluation and comparison of economic policies to increase distributed generation capacity in the Iranian household consumption sector using photovoltaic systems and RETScreen software. Renewable Energy, 2017, 107, 215-222.	4.3	51
71	A Lyapunov Function for Switching Command of a DCâ€™DC Power Converter With an LC Input Filter. IEEE Transactions on Industry Applications, 2017, 53, 5041-5050.	3.3	22
72	Early Intermittent Interturn Fault Detection and Localization for a Permanent Magnet Synchronous Motor of Electrical Vehicles Using Wavelet Transform. IEEE Transactions on Transportation Electrification, 2017, 3, 694-702.	5.3	61

#	ARTICLE	IF	CITATIONS
73	Current sensorless control using a nonlinear observer applied to a wound rotor synchronous machine. , 2017, , .		3
74	Overall Size Optimization of a High-Speed Starter Using a Quasi-Z-Source Inverter. IEEE Transactions on Transportation Electrification, 2017, 3, 891-900.	5.3	12
75	Identification and localization of incipient intermittent inter-turn fault in the stator of a three phase permanent magnet synchronous motor. , 2017, , .		3
76	Speed Range Extended Maximum Torque Per Ampere Control for PM Drives Considering Inverter and Motor Nonlinearities. IEEE Transactions on Power Electronics, 2017, 32, 7151-7159.	5.4	59
77	Stability Analysis and Active Stabilization of DC Power Systems for Electrified Transportation Systems, Taking into Account the Load Dynamics. IEEE Transactions on Transportation Electrification, 2017, 3, 3-12.	5.3	15
78	Hybrid Communication Topology and Protocol for Distributed-Controlled Cascaded H-Bridge Multilevel STATCOM. IEEE Transactions on Industry Applications, 2017, 53, 576-584.	3.3	41
79	Guest Editorial Special Issue on More Electric Aircraft. IEEE Transactions on Transportation Electrification, 2017, 3, 811-813.	5.3	2
80	Hybrid diagnosis of intern-turn short-circuit for aircraft applications using SVM-MBF. , 2017, , .		4
81	Robust sensorless control strategy with enhanced dynamics. , 2017, , .		0
82	Fault-tolerant consideration and active stabilization for floating interleaved boost converter system. , 2017, , .		14
83	Modeling and large signal stability analysis for islanded AC-microgrids. , 2017, , .		2
84	Welcome Aboard the More Electric Aircraft [About This Issue]. IEEE Electrification Magazine, 2017, 5, 2-3.	1.8	5
85	Active stabilization of a microgrid using model free adaptive control. , 2017, , .		8
86	Differential Flatness Based Control of 3-Phase AC/DC Converter. , 2017, , .		2
87	Differential Flatness-Based Control of Current/Voltage Stabilization for a Single-Phase PFC with Multiphase Interleaved Boost Converters. , 2017, , .		9
88	Control of a Two-Phase Interleaved Boost Converter with Input LC Filter for Fuel Cell Vehicle Applications. , 2017, , .		2
89	Hybrid Power Source FC/SC with Single-Loop Control Approach: Reference Trajectories Generation. , 2017, , .		2
90	Super-Twisting Differentiator-Based High Order Sliding Mode Voltage Control Design for DC-DC Buck Converters. Energies, 2016, 9, 494.	1.6	26

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91	Analysis and Design of an Active Stabilizer for a Boost Power Converter System. <i>Energies</i> , 2016, 9, 934.	1.6	15
92	Control of High-Energy High-Power Densities Storage Devices by Li-ion Battery and Supercapacitor for Fuel Cell/Photovoltaic Hybrid Power Plant for Autonomous System Applications. <i>IEEE Transactions on Industry Applications</i> , 2016, 52, 4395-4407.	3.3	105
93	A robust active stabilization technique for dc microgrids with tightly controlled loads. , 2016, , .		0
94	Improved performance of a control using switching command based on Lyapunov functions of a boost converter with an LC input filter. , 2016, , .		4
95	Lyapunov-based control and observer of a boost converter with LC input filter and stability analysis. , 2016, , .		6
96	Robust predictive current control with total disturbance observer for a synchronous motor drive. , 2016, , .		5
97	Nonlinear estimations of stator currents in a wound rotor synchronous machine. , 2016, , .		2
98	A novel wide stability control strategy of cascade dc power system for PEM fuel cell. , 2016, , .		3
99	PV-grid system in mismatch operating mode: Improvement through a new voltage balancing method in multilevel NPC inverters. , 2016, , .		4
100	Energy management and stabilization of a hybrid DC microgrid for transportation applications. , 2016, , .		13
101	Generalisation of an averaged model approach to estimate the periodâ€doubling bifurcation onset in power converters. <i>IET Power Electronics</i> , 2016, 9, 977-988.	1.5	11
102	Modeling and stability analysis of multi-time scale DC microgrid. <i>Electric Power Systems Research</i> , 2016, 140, 906-916.	2.1	29
103	Flatness-based control method: A review of its applications to power systems. , 2016, , .		11
104	Current controller design for high switching frequency converters. , 2016, , .		1
105	A new hybrid method of MPPT for photovoltaic systems based on FLC and three point-weight methods. , 2016, , .		6
106	Stable DC bus voltage balancing in a renewable source grid connected neutral point clamped inverter. , 2016, , .		1
107	A new approach for DC bus voltage balancing in a solar electric vehicle charging station. , 2016, , .		2
108	Stability issue of DC-DC converters with input LC filter via flatness-based control. , 2016, , .		5

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109	Design, implementation, and non-linear control of interior permanent magnet synchronous motor with flux concentration by improved PWM-rotor design. , 2016, , .		1
110	An overview of shaft voltages and bearing currents in rotating machines. , 2016, , .		27
111	Flatness based control of a high-speed saturable permanent magnet synchronous machine. , 2016, , .		2
112	Discrete-Time Modeling, Stability Analysis, and Active Stabilization of DC Distribution Systems With Multiple Constant Power Loads. IEEE Transactions on Industry Applications, 2016, 52, 4888-4898.	3.3	34
113	Multiple-vector-based predictive direct current control for a wound rotor synchronous machine drive. , 2016, , .		0
114	Identification of a roller screw for diagnosis of flight control actuator. , 2016, , .		3
115	Differential flatness based speed/torque control with state-observers of permanent magnet synchronous motor drives. , 2016, , .		5
116	Modeling and Diagnostic of Incipient Interturn Faults for a Three-Phase Permanent Magnet Synchronous Motor. IEEE Transactions on Industry Applications, 2016, 52, 4426-4434.	3.3	36
117	Stability analysis of hybrid AC/DC power systems for more electric aircraft. , 2016, , .		12
118	Bifurcation Analysis and Stabilization of DC Power Systems for Electrified Transportation Systems. IEEE Transactions on Transportation Electrification, 2016, 2, 86-95.	5.3	24
119	Asymptotic Stability Analysis of the Limit Cycle of a Cascaded DC-DC Converter Using Sampled Discrete-Time Modeling. IEEE Transactions on Industrial Electronics, 2016, 63, 2477-2487.	5.2	40
120	Stability Analysis and Dynamic Performance Evaluation of a Power Electronics-Based DC Distribution System With Active Stabilizer. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 93-102.	3.7	74
121	Optimization of hybrid electrical vehicles with coupled thermal and electrical simulation. , 2016, , .		0
122	Downsizing an electric actuator supplied with variable voltage using an interlaced high frequency boost converter for more electric aircrafts. , 2015, , .		0
123	Stability analysis of a LEDs dimming circuit: An interaction between an LC input filter and a buck converter. , 2015, , .		1
124	Discrete-time modelling, stability analysis, and active stabilization of dc distribution systems with constant power loads. , 2015, , .		14
125	Switching command based on Lyapunov function for a boost converter with an LC input filter in dc microgrid application. , 2015, , .		8
126	Comparative study of two control methods for a boost converter with LC input filter: Indirect sliding-mode and flatness based control. , 2015, , .		2

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127	Performance investigation of high-energy high-power densities storage devices by li-ion battery and supercapacitor for fuel cell/photovoltaic hybrid power plant for autonomous system applications. , 2015, , .		4
128	Estimation of the bifurcation point of a modulated hysteresis current controlled DC-DC boost converter: stability analysis and experimental verification. IET Power Electronics, 2015, 8, 2195-2203.	1.5	22
129	On the reduction of rotor losses in interior permanent magnet motor design and construction. , 2015, , .		1
130	Modeling and diagnostic of incipient inter-turn faults for a three phase permanent magnet synchronous motor using wavelet transform. , 2015, , .		10
131	Predictive based reliability analysis of electrical hybrid distributed generation. , 2015, , .		4
132	Development of CHCP systems in urban areas: An opportunity to increase power generation efficiency and mitigate CO2 emission. , 2015, , .		2
133	Effects of Imperfect Manufacturing Process on Electromagnetic Performances and Online Inter-turn Fault Detection in PMSMs. IEEE Transactions on Industrial Electronics, 2015, , 1-1.	5.2	25
134	DC Bus Stabilization of Li-Ion Battery Based Energy Storage for a Hydrogen/Solar Power Plant for Autonomous Network Applications. IEEE Transactions on Industry Applications, 2015, 51, 2717-2725.	3.3	30
135	Comparative study of control approaches of Li-Ion battery/supercapacitor storage devices for fuel cell power plant. , 2015, , .		8
136	Study of a quasi Z-source inverter and Permanent Magnet Synchronous Motor to reduce global size of a more electric aircraft actuator. , 2015, , .		1
137	Photovoltaic power control based on differential flatness approach of multiphase interleaved boost converter for grid connected applications. , 2015, , .		5
138	Dynamic analysis of an on-board DC distribution system with active stabilizer. , 2015, , .		5
139	Differential flatness-based control of a stand-alone solar-PV energy generating system. , 2015, , .		2
140	A new approach based on flatness control to improve reliability of parallel connected inverters. , 2015, , .		3
141	Stability analysis, discrete time modeling and active stabilization of DC-DC converter, taking into account the load dynamics. , 2015, , .		7
142	Control of a Hybrid Energy Source Comprising a Fuel Cell and Two Storage Devices Using Isolated Three-Port Bidirectional DC-DC Converters. IEEE Transactions on Industry Applications, 2015, 51, 491-497.	3.3	87
143	DC-DC Converters Dynamic Modeling With State Observer-Based Parameter Estimation. IEEE Transactions on Power Electronics, 2015, 30, 3356-3363.	5.4	78
144	Large-signal stabilization of AC grid supplying voltage-source converters with LCL-filters. IEEE Transactions on Industry Applications, 2015, 51, 702-711.	3.3	13

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145	Reliability assessment of adjustable speed drives using state Markov models. , 2014, , .		3
146	Modeling and diagnostic of incipient inter-turn faults for a three phase permanent magnet synchronous motor. , 2014, , .		6
147	Stabilization of a distributed DC power system by shaping loads input impedance: Feedforward stabilization. , 2014, , .		0
148	Nonlinear control algorithm of supercapacitor/Li-Ion battery energy storage devices for fuel cell vehicle applications. , 2014, , .		3
149	Robust Position Sensorless Control of Nonsalient PMSM at Standstill and Low Speeds. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 640-650.	3.7	16
150	DC bus stabilization of Li-Ion battery based energy storage for hydrogen/solar power plant for autonomous network applications. , 2014, , .		5
151	A Control Strategy for Electric Traction Systems Using a PM-Motor Fed by a Bidirectional Z -Source Inverter. IEEE Transactions on Vehicular Technology. 2014. 63. 4178-4191.	3.9	55
152	Comparison Criteria for Electric Traction System Using Z-Source/Quasi Z-Source Inverter and Conventional Architectures. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 467-476.	3.7	70
153	Differential flatness control approach for fuel cell/solar cell power plant with Li-ion battery storage device for grid-independent applications. , 2014, , .		4
154	A nonlinear control algorithm of Li-ion battery substation for DC distributed system. , 2014, , .		1
155	Stability analysis of a tightly controlled load supplied by a DC-DC boost converter with a modified sliding mode controller. , 2014, , .		14
156	Dynamic Consideration of DC Microgrids With Constant Power Loads and Active Damping System—A Design Method for Fault-Tolerant Stabilizing System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 562-570.	3.7	82
157	Large Signal Stability Analysis and Stabilization of Converters Connected to Grid Through LCL Filters. IEEE Transactions on Industrial Electronics, 2014, 61, 6507-6516.	5.2	16
158	Improving EMC behavior and energy efficiency of BOOST converter with power switches having low switching frequency and high dv/dt. , 2014, , .		4
159	High bandwidth flatness-based control of a PM-motor with protections in case of saturations. European Journal of Electrical Engineering, 2014, 17, 115-132.	1.1	0
160	Synchronous Demodulation of Control Voltages for Stator Interturn Fault Detection in PMSM. IEEE Transactions on Power Electronics, 2013, 28, 5647-5654.	5.4	61
161	Control of a hybrid energy source comprising a fuel cell and two storage devices using isolated three-port bidirectional DC-DC converters. , 2013, , .		4
162	Hybrid data-based/model-based inter-turn fault detection methods for PM drives with manufacturing faults. , 2013, , .		3

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163	Active Stabilization of DC Microgrids Without Remote Sensors for More Electric Aircraft. IEEE Transactions on Industry Applications, 2013, 49, 2352-2360.	3.3	89
164	An e-learning tool for power control and energy management in DC microgrids. , 2013, , .		17
165	Control strategy of solar/wind energy power plant with supercapacitor energy storage for smart DC microgrid. , 2013, , .		7
166	Control of a PMSM fed by a Quasi Z-source inverter based on flatness properties and saturation schemes. , 2013, , .		12
167	Stability analysis and active stabilization by a centralized stabilizer of Voltage-Source-Rectifier Loads in AC microgrids. , 2013, , .		9
168	DC Power Networks With Very Low Capacitances for Transportation Systems: Dynamic Behavior Analysis. IEEE Transactions on Power Electronics, 2013, 28, 5865-5877.	5.4	35
169	Comparison criteria for electric traction system architectures. , 2013, , .		2
170	Multi-agent based fault detection and isolation in more electric aircraft. , 2013, , .		2
171	Optimal efficiency operation of non-isolated DC/DC converter for high voltage ratio applications. , 2013, , .		6
172	Distributed Active Resonance Suppression in Hybrid DC Power Systems Under Unbalanced Load Conditions. IEEE Transactions on Power Electronics, 2013, 28, 1833-1842.	5.4	51
173	A distributed resonance modes rejection and stabilization in AC microgrids. , 2013, , .		2
174	Model-independent sensorless control for non-salient PM Synchronous Motors at low speeds including standstill. , 2013, , .		1
175	DC power networks with very low capacitances for transportation systems: Dynamic behavior analysis. , 2012, , .		2
176	A large signal stabilizer for high damping performance of PWM load converter with input LCL-filter. , 2012, , .		2
177	Optimal Design of Permanent Magnet Motors to Improve Field-Weakening Performances in Variable Speed Drives. IEEE Transactions on Industrial Electronics, 2012, 59, 2484-2494.	5.2	75
178	Calculation of radial forces in surface PM motors with asymmetric stator windings. , 2012, , .		2
179	Inductance Calculations in Permanent-Magnet Motors Under Fault Conditions. IEEE Transactions on Magnetics, 2012, 48, 2605-2616.	1.2	35
180	Stator winding inter-turn fault detection using control voltages demodulation. , 2012, , .		12

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181	A design method for a fault-tolerant multi-agent stabilizing system for DC microgrids with Constant Power Loads. , 2012, , .		17
182	Energetic impedances: Application to large signal stability analysis of DC power systems. , 2012, , .		4
183	General Active Global Stabilization of Multiloads DC-Power Networks. IEEE Transactions on Power Electronics, 2012, 27, 1788-1798.	5.4	121
184	Large Signal Stability Analysis Tools in DC Power Systems With Constant Power Loads and Variable Power Loads—A Review. IEEE Transactions on Power Electronics, 2012, 27, 1773-1787.	5.4	272
185	Behavioral analysis of a Boost converter with high performance source filter and a Fractional-Order PID controller. , 2012, , .		16
186	Large-Signal Stabilization of a DC-Link Supplying a Constant Power Load Using a Virtual Capacitor: Impact on the Domain of Attraction. IEEE Transactions on Industry Applications, 2012, 48, 878-887.	3.3	196
187	Estimating Permanent-Magnet Motor Parameters Under Inter-Turn Fault Conditions. IEEE Transactions on Magnetics, 2012, 48, 963-966.	1.2	26
188	Flatness based control of a non-ideal DC/DC boost converter. , 2011, , .		28
189	A general active stabilizer for a multi-loads DC-power network. , 2011, , .		6
190	High performance low cost control of a permanent magnet wheel motor using a hall effect position sensor. , 2011, , .		13
191	Distributed stabilization in DC hybrid power systems. , 2011, , .		6
192	Study of Different Architectures of Fault-Tolerant Actuator Using a Two-Channel PM Motor. IEEE Transactions on Industry Applications, 2011, 47, 47-54.	3.3	43
193	Real-Time Detection of Interturn Faults in PM Drives Using Back-EMF Estimation and Residual Analysis. IEEE Transactions on Industry Applications, 2011, 47, 2402-2412.	3.3	69
194	Inductance Identification and Study of PM Motor With Winding Turn Short Circuit Fault. IEEE Transactions on Magnetics, 2011, 47, 978-981.	1.2	93
195	Online Identification of PMSM Parameters: Parameter Identifiability and Estimator Comparative Study. IEEE Transactions on Industry Applications, 2011, 47, 1944-1957.	3.3	156
196	Modelling and study of PM machines with inter-turn fault dynamic model—FEM model. Electric Power Systems Research, 2011, 81, 1715-1722.	2.1	41
197	Comparison of two nonlinear control strategies for a hybrid source system using an isolated three-port bidirectional DC-DC converter. , 2011, , .		9
198	DC-Link Voltage Large Signal Stabilization and Transient Control Using a Virtual Capacitor. , 2010, , .		29

#	ARTICLE	IF	CITATIONS
199	Universal Control Strategy for Three Different Multilevel Inverters. , 2010, , .		2
200	Series architecture for fault tolerant PM drives: Operating modes with one or two DC voltage source(s). , 2010, , .		9
201	Optimal design of PM motors to achieve efficient flux weakening strategy in variable speed control applications. , 2010, , .		1
202	Linear Stabilization of a DC Bus Supplying a Constant Power Load: A General Design Approach. IEEE Transactions on Power Electronics, 2010, 25, 475-488.	5.4	178
203	Inductance identification of PM motor with winding turn short circuit fault. , 2010, , .		1
204	Fault Detection in a Current Controlled PM Drive Using Back-EMF Estimation and Residual Analysis. , 2010, , .		6
205	Control strategies for fault tolerant PM drives using series architecture. , 2010, , .		8
206	Fault tolerant DTC for six-phase symmetrical induction machine. , 2009, , .		4
207	Nonlinear Stabilization of a DC-Bus Supplying a Constant Power Load. , 2009, , .		23
208	Active stabilization of a poorly damped input filter supplying a constant power load. , 2009, , .		26
209	Contribution to Determination of Domain of Attraction in Power Systems: Application to Drives with Input Filter. , 2009, , .		24
210	Stability investigation of inverter motor drive system with input filter — Optimisation of the DC-link capacitance value. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	14
211	On-Line Identification of PMSM Parameters: Model-Reference vs EKF. , 2008, , .		43
212	Direct torque control for six-phase symmetrical induction machines. , 2008, , .		4
213	Analysis and evaluation of DTC and FOC in open phase fault operation of six-phase induction machines. , 2008, , .		5
214	Modeling and Control of Six-Phase Symmetrical Induction Machine Under Fault Condition Due to Open Phases. IEEE Transactions on Industrial Electronics, 2008, 55, 1966-1977.	5.2	220
215	Fault Tolerant and Minimum Loss Control of Double-Star Synchronous Machines Under Open Phase Conditions. IEEE Transactions on Industrial Electronics, 2008, 55, 1956-1965.	5.2	125
216	A novel direct torque control (DTC) for six-phase induction motors with common neutrals. , 2008, , .		11

#	ARTICLE	IF	CITATIONS
217	Control position of a faulted Six Phase Induction Machine (6PIM) using sliding mode control. , 2008, , .		1
218	Direct torque control (DTC) for six-phase symmetrical induction machine under open phase fault. , 2008, , .		6
219	Experimentally Validated Dynamic Fault Model for PMSM with Stator Winding Inter-Turn Fault. , 2008, , .		42
220	Study of Different Architectures of Fault Tolerant Actuator Using a Double-Star PM Motor. , 2008, , .		8
221	Fuzzy logic control for high precision positioning of a Six Phase Induction Machine in faulted mode. , 2008, , .		1
222	Using Weighted Information for Customer Knowledge Management: A Case Study. , 2008, , .		0
223	A Novel Mechanical Sensorless Control for PMSM Tolerant to Stator Resistance Uncertainties. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	0
224	A Novel Mechanical Sensorless Control for PMSM Tolerant to Stator Resistance Uncertainties. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	0
225	Back EMF Estimation-Based Sensorless Control of PMSM: Robustness With Respect to Measurement Errors and Inverter Irregularities. IEEE Transactions on Industry Applications, 2007, 43, 485-494.	3.3	111
226	Modeling of Non-Salient PM Synchronous Machines under Stator Winding Inter-turn Fault Condition: Dynamic Model - FEM Model. , 2007, , .		29
227	Back-EMF Based Detection of Stator Winding Inter-turn Fault for PM Synchronous Motor Drives. , 2007, , .		24
228	Détection de défaut du capteur de position d'un actionneur. Revue Internationale De Génie Électrique, 2007, 10, 475-500.	0.0	0
229	Aspects of current regulation in indirect field oriented control of dual three phase induction machines. , 2006, , .		6
230	Torque Ripples Suppression for Six-Phase Induction Motors Under Open Phase Faults. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	21
231	An example of the MAPEE courses : Non linear Control of Electromechanical Systems. , 2006, , .		2
232	Position control of an induction machine using variable structure control. IEEE/ASME Transactions on Mechatronics, 2006, 11, 358-361.	3.7	20
233	A novel Direct Torque Control (DTC) method for dual three phase induction motors. , 2006, , .		22
234	A DSP-Based Implementation of a Nonlinear Optimal Predictive Control for Induction Machine. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	4

#	ARTICLE	IF	CITATIONS
235	Decoupling Modeling and Control of Six-Phase Induction Machines Under Open Phase Fault Conditions. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	13
236	Synchronous and Induction Wind Power Generators as Renewable Power Energy Sources. , 2006, , .		2
237	Multi-vector SVM: a new approach to space vector modulation control for six-phase induction machines. , 2005, , .		12
238	Design comparison of two rotating electrical machines for 42 V electric power steering. , 2005, , .		10
239	Observer-based sensorless field-oriented control of induction machines. , 2004, , .		5
240	Mechanical Sensorless Control of PMSM With Online Estimation of Stator Resistance. IEEE Transactions on Industry Applications, 2004, 40, 457-471.	3.3	144
241	Analyse de convergence des lois de commande sans capteur des MSAP fondées sur l'estimation de la f _m . Revue Internationale De Génie Électrique, 2003, 6, 545-577.	0.0	0
242	A globally converging observer of mechanical variables for sensorless PMSM. , 0, , .		17
243	A self organizing intelligent controller for speed and torque control of a PMSM. , 0, , .		15
244	On-line identification of PMSM electrical parameters based on decoupling control. , 0, , .		30
245	Mechanical sensorless control of PMSM with on-line estimation of stator resistance. , 0, , .		0
246	Moving switching surfaces for high precision position control of electrical drives. , 0, , .		10
247	A new field orientation control of dual three phase induction machines. , 0, , .		9
248	State and disturbance observers in mechanical sensorless control of PMSM. , 0, , .		4
249	Sensorless field-oriented control for six-phase induction machines. , 0, , .		8