# Babak Nahid

## List of Publications by Year in descending order

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|---|---|---|---|
| 249 papers | 5,353 citations | 101543 36 h-index | 114465 63 g-index |
| 252 all docs | 252 docs citations | 252 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. | 7.9 | 9 |
| 2 | Digital Sliding Mode Based Model-Free PWM Current Control of Switched Reluctance Machines. IEEE Transactions on Industrial Electronics, 2022, 69, 8760-8769. | 7.9 | 5 |
| 3 | Survivability-Based Protection for Electric Motor Drive Systems-Part I: $3phi$ Induction Motor Drives. IEEE Transactions on Industry Applications, 2022, 58, 1797-1808. | 4.9 | 7 |
| 4 | Design, Modeling, and Model-Free Control of Permanent Magnet-Assisted Synchronous Reluctance Motor for e-Vehicle Applications. Sustainability, 2022, 14, 5423. | 3.2 | 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. | 4.9 | 0 |
| 8 | A Review on Switched Reluctance Generators in Wind Power Applications: Fundamentals, Control and Future Trends. IEEE Access, 2022, 10, 69412-69427. | 4.2 | 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. | 5.4 | 14 |
| 10 | Series hybrid fuel cell/supercapacitor power source. Mathematics and Computers in Simulation, 2021, 184, 21-40. | 4.4 | 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. | 5.5 | 26 |
| 12 | Current Sensorless Control for WRSM Using Model-Free Adaptive Control. IEEE Transactions on Transportation Electrification, 2021, 7, 683-693. | 7.8 | 15 |
| 13 | Influencing Parameters on Discharge Bearing Currents in Inverter-Fed Induction Motors. IEEE Transactions on Energy Conversion, 2021, 36, 940-949. | 5.2 | 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. | 5.4 | 29 |
| 15 | Stability Improvement of Cascaded Power Conversion Systems Based on Hamiltonian Energy Control Theory. IEEE Transactions on Industry Applications, 2021, 57, 1081-1093. | 4.9 | 16 |
| 16 | A Review of Fixed Switching Frequency Current Control Techniques for Switched Reluctance Machines. IEEE Access, 2021, 9, 39375-39391. | 4.2 | 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. | 7.8 | 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. | 8.8 | 21 |

| # | Article | IF | Citations |
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| 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. | 3.2 | 4 |
| 20 | Design, Modeling, and Differential Flatness Based Control of Permanent Magnet-Assisted Synchronous Reluctance Motor for e-Vehicle Applications. Sustainability, 2021, 13, 9502. | 3.2 | 5 |
| 21 | Magnetic Model Identification of Wound Rotor Synchronous Machine Using a Novel Flux Estimator. IEEE Transactions on Industry Applications, 2021, 57, 5389-5399. | 4.9 | 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. | 3.1 | 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. | 7.8 | 34 |
| 26 | Employing Fault Currents in the Reliability Analysis of Motor Drives. IEEE Transactions on Industry Applications, 2020, , 1-1. | 4.9 | 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. | 7.8 | 30 |
| 28 | Average value modeling of sixâ€pulse diode rectifier considering unbalance conditions in supply voltage and impedance. International Transactions on Electrical Energy Systems, 2020, 30, e12216. | 1.9 | 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. | 0.7 | 18 |
| 30 | Hamiltonian Control Law Based on Lyapunovâ€“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. | 8.9 | 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. | 6.1 | 29 |
| 36 | Interconnection and Damping Assignment Passivity-Based Control Applied to On-Board DCâ€“DC Power Converter System Supplying Constant Power Load. IEEE Transactions on Industry Applications, 2019, 55, 6476-6485. | 4.9 | 67 |

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| 37 | Second Harmonic Current Reduction for a Battery-Driven Grid Interface With Three-Phase Dual Active Bridge DCâ€“DC Converter. IEEE Transactions on Industrial Electronics, 2019, 66, 9056-9064. | 7.9 | 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. | 7.9 | 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, . | 0.8 | 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. | 4.9 | 48 |
| 50 | A Comprehensive Study on Shaft Voltages and Bearing Currents in Rotating Machines. IEEE Transactions on Industry Applications, 2018, 54, 3749-3759. | 4.9 | 107 |
| 51 | Harmonic Power Sharing With Voltage Distortion Compensation of Droop Controlled Islanded Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 5335-5347. | 9.0 | 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. | 7.9 | 66 |
| 53 | IDA-Passivity-Based Control for On-board DC Power Converter System with Constant Power Load. , 2018, , . | | 7 |
| 54 | Active stabilisation design of DCâ€“DC converters with constant power load using a sampled discreteâ€time model: stability analysis and experimental verification. IET Power Electronics, 2018, 11, 1519-1528. | 2.1 | 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. | 7.8 | 10 |
| 64 | Nonlinear Estimation of Stator Currents in a Wound Rotor Synchronous Machine. IEEE Transactions on Industry Applications, 2018, 54, 3858-3867. | 4.9 | 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. | 1.5 | 1 |
| 68 | Reliability Improvement Approach Based on Flatness Control of Parallel-Connected Inverters. IEEE Transactions on Power Electronics, 2017, 32, 681-692. | 7.9 | 18 |
| 69 | Discrete-Time Tool for Stability Analysis of DC Power Electronics-Based Cascaded Systems. IEEE Transactions on Power Electronics, 2017, 32, 652-667. | 7.9 | 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. | 8.9 | 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. | 4.9 | 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. | 7.8 | 61 |

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| 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. | 7.8 | 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. | 7.9 | 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. | 7.8 | 15 |
| 78 | Hybrid Communication Topology and Protocol for Distributed-Controlled Cascaded H-Bridge Multilevel STATCOM. IEEE Transactions on Industry Applications, 2017, 53, 576-584. | 4.9 | 41 |
| 79 | Guest Editorial Special Issue on More Electric Aircraft. IEEE Transactions on Transportation Electrification, 2017, 3, 811-813. | 7.8 | 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. | 3.1 | 26 |

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| 91 | Analysis and Design of an Active Stabilizer for a Boost Power Converter System. Energies, 2016, 9, 934. | 3.1 | 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. IEEE Transactions on Industry Applications, 2016, 52, 4395-4407. | 4.9 | 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. IET Power Electronics, 2016, 9, 977-988. | 2.1 | 11 |
| 102 | Modeling and stability analysis of multi-time scale DC microgrid. Electric Power Systems Research, 2016, 140, 906-916. | 3.6 | 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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| 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. | 4.9 | 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. | 4.9 | 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. | 7.8 | 24 |
| 119 | Asymptotic Stability Analysis of the Limit Cycle of a Cascaded DCâ€“DC Converter Using Sampled Discrete-Time Modeling. IEEE Transactions on Industrial Electronics, 2016, 63, 2477-2487. | 7.9 | 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. | 5.4 | 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 modulatedâ€hysteresis currentâ€controlled DCâ€“DC boost converter: stability analysis and experimental verification. IET Power Electronics, 2015, 8, 2195-2203. | 2.1 | 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. | 7.9 | 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. | 4.9 | 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 DCâ€“DC Converters. IEEE Transactions on Industry Applications, 2015, 51, 491-497. | 4.9 | 87 |
| 143 | DCâ€“DC Converters Dynamic Modeling With State Observer-Based Parameter Estimation. IEEE Transactions on Power Electronics, 2015, 30, 3356-3363. | 7.9 | 78 |
| 144 | Large-signal stabilization of AC grid supplying voltage-source converters with LCL-filters. IEEE Transactions on Industry Applications, 2015, 51, 702-711. | 4.9 | 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. | 5.4 | 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 <inline-formula> <tex-math notation="TeX">$Z$</tex-math></inline-formula>-Source Inverter. IEEE Transactions on Vehicular Technology, 2014, 63, 4178-4191. | 6.3 | 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. | 5.4 | 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 Systemâ€”A Design Method for Fault-Tolerant Stabilizing System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 562-570. | 5.4 | 82 |
| 157 | Large Signal Stability Analysis and Stabilization of Converters Connected to Grid Through <inline-formula> <tex-math notation="TeX">$LCL$</tex-math></inline-formula> Filters. IEEE Transactions on Industrial Electronics, 2014, 61, 6507-6516. | 7.9 | 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. | 0.3 | 0 |
| 160 | Synchronous Demodulation of Control Voltages for Stator Interturn Fault Detection in PMSM. IEEE Transactions on Power Electronics, 2013, 28, 5647-5654. | 7.9 | 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. | 4.9 | 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. | 7.9 | 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. | 7.9 | 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. | 7.9 | 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. | 2.1 | 35 |
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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. | 7.9 | 121 |
| 184 | Large Signal Stability Analysis Tools in DC Power Systems With Constant Power Loads and Variable Power Loadsâ€"A Review. IEEE Transactions on Power Electronics, 2012, 27, 1773-1787. | 7.9 | 272 |
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