

Dianguo Xu

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436
papers

6,881
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619
ext. papers

9,419
ext. citations

6
avg, IF

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L-index

| # | Paper | IF | Citations |
|-----|--|-----|-----------|
| 436 | Analysis of the Phase-Shifted Carrier Modulation for Modular Multilevel Converters. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 297-310 | 7.2 | 223 |
| 435 | DSP-Based Control of Sensorless IPMSM Drives for Wide-Speed-Range Operation. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 720-727 | 8.9 | 195 |
| 434 | An Improved Distributed Secondary Control Method for DC Microgrids With Enhanced Dynamic Current Sharing Performance. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 6658-6673 | 7.2 | 181 |
| 433 | ADALINE-Network-Based PLL for Position Sensorless Interior Permanent Magnet Synchronous Motor Drives. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 1450-1460 | 7.2 | 148 |
| 432 | Quadrature PLL-Based High-Order Sliding-Mode Observer for IPMSM Sensorless Control With Online MTPA Control Strategy. <i>IEEE Transactions on Energy Conversion</i> , 2013 , 28, 214-224 | 5.4 | 134 |
| 431 | Adaptive Compensation Method of Position Estimation Harmonic Error for EMF-Based Observer in Sensorless IPMSM Drives. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 3055-3064 | 7.2 | 124 |
| 430 | Flux Immunity Robust Predictive Current Control With Incremental Model and Extended State Observer for PMSM Drive. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 9267-9279 | 7.2 | 106 |
| 429 | An Improved Circulating Current Injection Method for Modular Multilevel Converters in Variable-Speed Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 7215-7225 | 8.9 | 104 |
| 428 | An LC/S Compensation Topology and Coil Design Technique for Wireless Power Transfer. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 2007-2025 | 7.2 | 97 |
| 427 | Maximum Efficiency Per Ampere Control of Permanent-Magnet Synchronous Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 2135-2143 | 8.9 | 91 |
| 426 | An Improved Feedforward Control Method Considering PLL Dynamics to Improve Weak Grid Stability of Grid-Connected Inverters. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 5143-5151 | 4.3 | 90 |
| 425 | Enhanced Linear ADRC Strategy for HF Pulse Voltage Signal Injection-Based Sensorless IPMSM Drives. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 514-525 | 7.2 | 90 |
| 424 | Position Estimation Error Reduction Using Recursive-Least-Square Adaptive Filter for Model-Based Sensorless Interior Permanent-Magnet Synchronous Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 5115-5125 | 8.9 | 84 |
| 423 | A Novel Inverter-Output Passive Filter for Reducing Both Differential- and Common-Mode $\frac{dv}{dt}$ at the Motor Terminals in PWM Drive Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2007 , 54, 419-428 | 8.9 | 80 |
| 422 | Comparative Investigation of Pseudorandom High-Frequency Signal Injection Schemes for Sensorless IPMSM Drives. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 2123-2132 | 7.2 | 76 |
| 421 | A Novel Control Method for Transformerless H-Bridge Cascaded STATCOM With Star Configuration. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 1189-1202 | 7.2 | 75 |
| 420 | Enhanced Position Observer Using Second-Order Generalized Integrator for Sensorless Interior Permanent Magnet Synchronous Motor Drives. <i>IEEE Transactions on Energy Conversion</i> , 2014 , 29, 486-495 | 5.4 | 75 |

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| 419 | Square-Wave Voltage Injection Algorithm for PMSM Position Sensorless Control With High Robustness to Voltage Errors. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 5425-5437 | 7.2 | 75 |
| 418 | The Application of Particle Swarm Optimization to Passive and Hybrid Active Power Filter Design. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 2841-2851 | 8.9 | 74 |
| 417 | Self-Commissioning of Permanent Magnet Synchronous Machine Drives at Standstill Considering Inverter Nonlinearities. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 6615-6627 | 7.2 | 70 |
| 416 | Pseudo-Random High-Frequency Square-Wave Voltage Injection Based Sensorless Control of IPMSM Drives for Audible Noise Reduction. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 7423-7433 | 8.9 | 69 |
| 415 | . <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 4619-4630 | 7.2 | 69 |
| 414 | Static-Errorless Deadbeat Predictive Current Control Using Second-Order Sliding-Mode Disturbance Observer for Induction Machine Drives. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 2395-2403 | 7.2 | 68 |
| 413 | . <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 4238-4248 | 7.2 | 68 |
| 412 | A Novel Parameter Tuning Method for a Double-Sided LCL Compensated WPT System With Better Comprehensive Performance. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 8525-8536 | 7.2 | 65 |
| 411 | A Single Switch Quadratic Boost High Step Up DC/DC Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 4387-4397 | 8.9 | 64 |
| 410 | A CLCL Resonant DC/DC Converter for Two-Stage LED Driver System. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 2883-2891 | 8.9 | 63 |
| 409 | S/CLC Compensation Topology Analysis and Circular Coil Design for Wireless Power Transfer. <i>IEEE Transactions on Transportation Electrification</i> , 2017 , 3, 496-507 | 7.6 | 61 |
| 408 | A Modified Modular Multilevel Converter With Reduced Capacitor Voltage Fluctuation. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 6108-6119 | 8.9 | 60 |
| 407 | Seamless Transition Control for Modular Multilevel Converters When Inserting a Cold-Reserve Redundant Submodule. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 4052-4057 | 7.2 | 58 |
| 406 | Design Method of Adaptive Full Order Observer With or Without Estimated Flux Error in Speed Estimation Algorithm. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 2609-2626 | 7.2 | 57 |
| 405 | A Single-Stage LED Driver Based on Interleaved BuckBoost Circuit and LLC Resonant Converter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2015 , 3, 732-741 | 5.6 | 55 |
| 404 | Rotor Position Estimation of PMSM in Low-Speed Region and Standstill Using Zero-Voltage Vector Injection. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 7948-7958 | 7.2 | 52 |
| 403 | . <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 849-859 | 7.2 | 51 |
| 402 | Robust Predictive Current Control With Online Disturbance Estimation for Induction Machine Drives. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 4663-4674 | 7.2 | 51 |

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| 401 | Closed-Loop Precharge Control of Modular Multilevel Converters During Start-Up Processes. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 524-531 | 7.2 | 50 |
| 400 | Offline Parameter Self-Learning Method for General-Purpose PMSM Drives With Estimation Error Compensation. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 11103-11115 | 7.2 | 49 |
| 399 | Inverter Power Control Based on DC-Link Voltage Regulation for IPMSM Drives Without Electrolytic Capacitors. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 558-571 | 7.2 | 48 |
| 398 | A New Frequency Control Strategy in an Islanded Microgrid Using Virtual Inertia Control-Based Coefficient Diagram Method. <i>IEEE Access</i> , 2019 , 7, 16979-16990 | 3.5 | 47 |
| 397 | Active Disturbance Rejection Control Strategy for Signal Injection-Based Sensorless IPMSM Drives. <i>IEEE Transactions on Transportation Electrification</i> , 2018 , 4, 330-339 | 7.6 | 47 |
| 396 | A Practical Equivalent Method for DFIG Wind Farms. <i>IEEE Transactions on Sustainable Energy</i> , 2018 , 9, 610-620 | 8.2 | 46 |
| 395 | Active Disturbance Rejection Control of LCL-Filtered Grid-Connected Inverter Using Padé Approximation. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 6179-6189 | 4.3 | 46 |
| 394 | Speed-Sensorless Induction Machine Control in the Field-Weakening Region Using Discrete Speed-Adaptive Full-Order Observer. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 5759-5773 | 7.2 | 44 |
| 393 | A Permutation Importance-Based Feature Selection Method for Short-Term Electricity Load Forecasting Using Random Forest. <i>Energies</i> , 2016 , 9, 767 | 3.1 | 44 |
| 392 | Multiple-AVF Cross-Feedback-Network-Based Position Error Harmonic Fluctuation Elimination for Sensorless IPMSM Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 821-831 | 8.9 | 43 |
| 391 | Sensorless Control Scheme of IPMSMs Using HF Orthogonal Square-Wave Voltage Injection Into a Stationary Reference Frame. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 2573-2584 | 7.2 | 43 |
| 390 | A 1 MHz Half-Bridge Resonant DC/DC Converter Based on GaN FETs and Planar Magnetics. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 2876-2891 | 7.2 | 42 |
| 389 | Flux-Weakening Control for Induction Motor in Voltage Extension Region: Torque Analysis and Dynamic Performance Improvement. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 3740-3751 | 8.9 | 40 |
| 388 | Low-Frequency Pulse Voltage Injection Scheme-Based Sensorless Control of IPMSM Drives for Audible Noise Reduction. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 8415-8426 | 8.9 | 39 |
| 387 | A Single-Stage LED Driver Based on SEPIC and LLC Circuits. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 5766-5776 | 8.9 | 39 |
| 386 | Droop Control With Improved Disturbance Adaption for a PV System With Two Power Conversion Stages. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 6073-6085 | 8.9 | 38 |
| 385 | A Single-Stage Single-Switch LED Driver Based on the Integrated SEPIC Circuit and Class-E Converter. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 5814-5824 | 7.2 | 37 |
| 384 | A Single-Stage Single-Switch LED Driver Based on Class-E Converter. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 2618-2626 | 4.3 | 36 |

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| 383 | Analysis and Design of an S/SP Compensated IPT System to Minimize Output Voltage Fluctuation Versus Coupling Coefficient and Load Variation. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 9262-9272 | 6.8 | 35 |
| 382 | . <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 7927-7937 | 7.2 | 35 |
| 381 | Vibration Suppression With Shaft Torque Limitation Using Explicit MPC-PI Switching Control in Elastic Drive Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 6855-6867 | 8.9 | 33 |
| 380 | Robustness Improvement of Speed Estimation in Speed-Sensorless Induction Motor Drives. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 2525-2536 | 4.3 | 33 |
| 379 | Fault-Tolerant Control of Medium-Voltage Modular Multilevel Converters With Minimum Performance Degradation Under Submodule Failures. <i>IEEE Access</i> , 2018 , 6, 11772-11781 | 3.5 | 32 |
| 378 | . <i>IEEE Transactions on Industry Applications</i> , 2012 , 48, 996-1005 | 4.3 | 32 |
| 377 | Sensorless Control of IPMSM Drives Using a Pseudo-Random Phase-Switching Fixed-Frequency Signal Injection Scheme. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 7660-7671 | 8.9 | 31 |
| 376 | Research on Wind Turbine Emulation based on DC Motor 2007 , | | 31 |
| 375 | Discrete-Time Low-Frequency-Ratio Synchronous-Frame Full-Order Observer for Position Sensorless IPMSM Drives. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2017 , 5, 870-879 | 5.6 | 30 |
| 374 | Optimal Sizing of Distributed Generations in DC Microgrids With Comprehensive Consideration of System Operation Modes and Operation Targets. <i>IEEE Access</i> , 2018 , 6, 31129-31140 | 3.5 | 30 |
| 373 | Particle Swarm Optimization-Based Parameter Design Method for S/CLC-Compensated IPT Systems Featuring High Tolerance to Misalignment and Load Variation. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 5268-5282 | 7.2 | 30 |
| 372 | . <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 808-820 | 8.9 | 29 |
| 371 | Power Quality Disturbances Recognition Based on a Multiresolution Generalized S-Transform and a PSO-Improved Decision Tree. <i>Energies</i> , 2015 , 8, 549-572 | 3.1 | 29 |
| 370 | Analysis and Suppression of Circulating Current Caused by Carrier Phase Difference in Parallel Voltage Source Inverters With SVPWM. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 11007-11020 | 7.2 | 29 |
| 369 | Investigation of d - and q -Axis Inductances Influenced by Slot-Pole Combinations Based on Axial Flux Permanent-Magnet Machines. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 4539-4551 | 8.9 | 29 |
| 368 | A Single-Stage LED Driver Based on Double LLC Resonant Tanks for Automobile Headlight With Digital Control. <i>IEEE Transactions on Transportation Electrification</i> , 2016 , 2, 357-368 | 7.6 | 28 |
| 367 | Analysis, Design, and Implementation of a Wireless Power and Data Transmission System Using Capacitive Coupling and Double-Sided LCC Compensation Topology. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 541-551 | 4.3 | 28 |
| 366 | A Novel Unsymmetrical Coupling Structure Based on Concentrated Magnetic Flux for High-Misalignment IPT Applications. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 3110-3123 | 7.2 | 27 |

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| 365 | Weight-Transducerless Rollback Mitigation Adopting Enhanced MPC With Extended State Observer for Direct-Drive Elevators. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 4440-4451 | 7.2 | 26 |
| 364 | . <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 3747-3758 | 4.3 | 26 |
| 363 | An Improved Single-Machine Equivalent Method of Wind Power Plants by Calibrating Power Recovery Behaviors. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 4371-4381 | 7 | 26 |
| 362 | An Impedance Model-Based Multiparameter Identification Method of PMSM for Both Offline and Online Conditions. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 727-738 | 7.2 | 26 |
| 361 | Control of Parallel Three-Phase PWM Converters Under Generalized Unbalanced Operating Conditions. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 3206-3215 | 7.2 | 25 |
| 360 | Cooperative path planning of multiple autonomous underwater vehicles operating in dynamic ocean environment. <i>ISA Transactions</i> , 2019 , 94, 174-186 | 5.5 | 25 |
| 359 | Analysis of Oscillation Frequency Deviation in Elastic Coupling Digital Drive System and Robust Notch Filter Strategy. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 90-101 | 8.9 | 25 |
| 358 | Current Sensor Fault-Tolerant Control Strategy for Encoderless PMSM Drives Based on Single Sliding Mode Observer. <i>IEEE Transactions on Transportation Electrification</i> , 2020 , 6, 679-689 | 7.6 | 24 |
| 357 | A Family of High Step-Up Coupled-Inductor Impedance-Source Inverters With Reduced Switching Spikes. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 9116-9121 | 7.2 | 24 |
| 356 | A High-Reliability and Determinacy Architecture for Smart Substation Process-Level Network Based on Cobweb Topology. <i>IEEE Transactions on Power Delivery</i> , 2014 , 29, 842-850 | 4.3 | 24 |
| 355 | Single-Stage Bridgeless LED Driver Based on a CLCL Resonant Converter. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 1832-1841 | 4.3 | 23 |
| 354 | High-Frequency Voltage-Injection Methods and Observer Design for Initial Position Detection of Permanent Magnet Synchronous Machines. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 7971-7979 | 7.2 | 23 |
| 353 | Gear Fault Diagnosis Based on Dual Parameter Optimized Resonance-Based Sparse Signal Decomposition of Motor Current. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 3782-3792 | 4.3 | 23 |
| 352 | Shaft Torque Limiting Control Using Shaft Torque Compensator for Two-Inertia Elastic System With Backlash. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016 , 21, 2902-2911 | 5.5 | 23 |
| 351 | Analysis, Design, and Optimization of LC/S Compensation Topology With Excellent Load-Independent Voltage Output for Inductive Power Transfer. <i>IEEE Transactions on Transportation Electrification</i> , 2018 , 4, 767-777 | 7.6 | 23 |
| 350 | Asymmetric Mode Control of MMC to Suppress Capacitor Voltage Ripples in Low-Frequency, Low-Voltage Conditions. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 4219-4230 | 7.2 | 22 |
| 349 | Generalized Single-Phase Harmonic State Space Modeling of the Modular Multilevel Converter With Zero-Sequence Voltage Compensation. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 6416-6426 | 8.9 | 22 |
| 348 | Pseudorandom-Frequency Sinusoidal Injection Based Sensorless IPMSM Drives With Tolerance for System Delays. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 3623-3632 | 7.2 | 21 |

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| 347 | Novel High Step-Up Soft-Switching DCDC Converter Based on Switched Capacitor and Coupled Inductor. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 9471-9481 | 7.2 | 21 |
| 346 | Single-stage LED driver with low bus voltage. <i>Electronics Letters</i> , 2013 , 49, 455-457 | 1.1 | 21 |
| 345 | Saliency-Based Sensorless Control for SynRM Drives With Suppression of Position Estimation Error. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 5839-5849 | 8.9 | 21 |
| 344 | A Single-Stage LED Driver Based on Flyback and Modified Class-E Resonant Converters With Low-Voltage Stress. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 8463-8473 | 8.9 | 21 |
| 343 | Comparative Study of the Active and Passive Circulating Current Suppression Methods for Modular Multilevel Converters. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 1878-1883 | 7.2 | 21 |
| 342 | A Complete HSS-Based Impedance Model of MMC Considering Grid Impedance Coupling. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 12929-12948 | 7.2 | 20 |
| 341 | A High-Frequency CLCL Converter Based on Leakage Inductance and Variable Width Winding Planar Magnetics. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 280-290 | 8.9 | 20 |
| 340 | An Active Damping Control Method for Reduced DC-Link Capacitance IPMSM Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 2057-2068 | 8.9 | 20 |
| 339 | Zero Stator Current Frequency Operation of Speed-Sensorless Induction Motor Drives Using Stator Input Voltage Error for Speed Estimation. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 1490-1498 | 8.9 | 20 |
| 338 | Saliency-based position sensorless control methods for PMSM drives - A review. <i>Chinese Journal of Electrical Engineering</i> , 2017 , 3, 14-23 | 4 | 20 |
| 337 | Multifunctional robot to maintain boiler water-cooling tubes. <i>Robotica</i> , 2009 , 27, 941-948 | 2.1 | 20 |
| 336 | LC/CL compensation topology and efficiency-based optimisation method for wireless power transfer. <i>IET Power Electronics</i> , 2018 , 11, 1029-1037 | 2.2 | 19 |
| 335 | An Enhanced Dual Droop Control Scheme for Resilient Active Power Sharing Among Paralleled Two-Stage Converters. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 6091-6104 | 7.2 | 19 |
| 334 | Dynamic Resonance Analysis and Oscillation Damping of Multiterminal DC Grids. <i>IEEE Access</i> , 2017 , 5, 16974-16984 | 3.5 | 19 |
| 333 | Control and Analysis of the Modular Multilevel DC De-Icer With STATCOM Functionality. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 5465-5476 | 8.9 | 19 |
| 332 | Novel Hybrid DC/DC Converter Topology for HVDC Interconnections. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 5131-5146 | 7.2 | 18 |
| 331 | High Step-Up Y-Source Inverter With Reduced DC-Link Voltage Spikes. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 5487-5499 | 7.2 | 18 |
| 330 | Analysis and Design of High-Misalignment-Tolerant Compensation Topologies With Constant-Current or Constant-Voltage Output for IPT Systems. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 2685-2695 | 7.2 | 18 |

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| 329 | Antirollback Control for Gearless Elevator Traction Machines Adopting Offset-Free Model Predictive Control Strategy. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 6194-6203 | 8.9 | 17 |
| 328 | Improved deadbeat predictive current control strategy for permanent magnet motor drives 2011 , | | 17 |
| 327 | Enhanced FRT and Postfault Recovery Control for MMC-HVDC Connected Offshore Wind Farms. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 1606-1617 | 7 | 17 |
| 326 | Maximum Torque Analysis and Extension in Six-Step Mode-Combined Field-Weakening Control for Induction Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 9129-9138 | 8.9 | 17 |
| 325 | DC Solid State Transformer Based on Three-Level Power Module for Interconnecting MV and LV DC Distribution Systems. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 1563-1577 | 7.2 | 17 |
| 324 | A New Droop Coefficient Design Method for Accurate Power-Sharing in VSC-MTDC Systems. <i>IEEE Access</i> , 2019 , 7, 47605-47614 | 3.5 | 16 |
| 323 | Weight-Transducerless Starting Torque Compensation of Gearless Permanent-Magnet Traction Machine for Direct-Drive Elevators. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 4594-4604 | 8.9 | 16 |
| 322 | Enhanced Flux-Weakening Control Method for Reduced DC-Link Capacitance IPMSM Drives. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 7788-7799 | 7.2 | 16 |
| 321 | Multi-objective energy management system for DC microgrids based on the maximum membership degree principle. <i>Journal of Modern Power Systems and Clean Energy</i> , 2018 , 6, 668-678 | 4 | 16 |
| 320 | Inverter Nonlinear Error Compensation Using Feedback Gains and Self-Tuning Estimated Current Error in Adaptive Full-Order Observer. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 472-482 | 4.3 | 15 |
| 319 | An FDM-Based Simultaneous Wireless Power and Data Transfer System Functioning With High-Rate Full-Duplex Communication. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 6370-6381 | 11.9 | 15 |
| 318 | A Temperature-Dependent SiC MOSFET Modeling Method Based on MATLAB/Simulink. <i>IEEE Access</i> , 2018 , 6, 4497-4505 | 3.5 | 15 |
| 317 | A Single-Stage LED Driver With High-Performance Primary-Side-Regulated Characteristic. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2018 , 65, 76-80 | 3.5 | 15 |
| 316 | A Single-Stage LED Driver Based on Half-Bridge $\$CLCL\$$ Resonant Converter and BuckBoost Circuit. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 196-208 | 5.6 | 15 |
| 315 | Capacitance Reduction of the Hybrid Modular Multilevel Converter by Decreasing Average Capacitor Voltage in Variable-Speed Drives. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 1580-1594 | 7.2 | 15 |
| 314 | A Moderate Online Servo Controller Parameter Self-Tuning Method via Variable-Period Inertia Identification. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 12165-12180 | 7.2 | 15 |
| 313 | A Double-T-Type Compensation Network and Its Tuning Method for IPT System. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 4757-4767 | 4.3 | 15 |
| 312 | A Novel Design Method of LCL Type Utility Interface for Three-Phase Voltage Source Rectifier | | 15 |

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| 311 | Feature Selection of Power Quality Disturbance Signals with an Entropy-Importance-Based Random Forest. <i>Entropy</i> , 2016 , 18, 44 | 2.8 | 15 |
| 310 | An Improved Active Crosstalk Suppression Method for High-Speed SiC MOSFETs. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 7736-7744 | 4.3 | 14 |
| 309 | Distributed Global Economical Load Sharing for a Cluster of DC Microgrids. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 3410-3420 | 7 | 14 |
| 308 | A Two-Stage Quasi-Resonant Dual-Buck LED Driver With Digital Control Method. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 787-795 | 4.3 | 14 |
| 307 | A Unified Modeling Method of Photovoltaic Generation Systems Under Balanced and Unbalanced Voltage Dips. <i>IEEE Transactions on Sustainable Energy</i> , 2019 , 10, 1764-1774 | 8.2 | 14 |
| 306 | A Family of Y-Source DC/DC Converter Based on Switched Inductor. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 1587-1597 | 4.3 | 14 |
| 305 | A High Step Up SEPIC-Based Converter Based on Partly Interleaved Transformer. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 1455-1465 | 8.9 | 14 |
| 304 | Current Sensor Fault-Tolerant Control for Encoderless IPMSM Drives Based on Current Space Vector Error Reconstruction. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 3658-3668 | 5.6 | 14 |
| 303 | Fault Diagnosis of Bearing in Wind Turbine Gearbox Under Actual Operating Conditions Driven by Limited Data With Noise Labels. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-10 | 5.2 | 14 |
| 302 | Soft-Switching Bidirectional DC/DC Converter With an LLC Resonant Circuit. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 851-864 | 5.6 | 13 |
| 301 | . <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 3422-3426 | 8.9 | 13 |
| 300 | Improved predictive current control with static current error elimination for permanent magnet synchronous machine 2014 , | | 13 |
| 299 | Fault Diagnosis and Life Prediction of DC-link Aluminum Electrolytic Capacitors Used in Three-phase AC/DC/AC Converters 2012 , | | 13 |
| 298 | Observability Analysis for Speed Sensorless Induction Motor Drives With and Without Virtual Voltage Injection. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 9236-9246 | 7.2 | 13 |
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