Sanjib Kumar Panda

List of Publications by Year
in descending order

326 papers	7,295 citations	57719 44 h-index	79644 73 g-index
328 all docs	328 docs citations	328 times ranked	6240 citing authors

#	Article	IF	Citations
1	Energy Harvesting From Hybrid Indoor Ambient Light and Thermal Energy Sources for Enhanced Performance of Wireless Sensor Nodes. IEEE Transactions on Industrial Electronics, 2011, 58, 4424-4435.	5.2	335
2	Torque Ripple Minimization in PM Synchronous Motors Using Iterative Learning Control. IEEE Transactions on Power Electronics, 2004, 19, 272-279.	5.4	295
3	A Digital Twin Approach for Fault Diagnosis in Distributed Photovoltaic Systems. IEEE Transactions on Power Electronics, 2020, 35, 940-956.	5.4	225
4	Model-Based Fault Detection and Identification for Switching Power Converters. IEEE Transactions on Power Electronics, 2017, 32, 1419-1430.	5.4	185
5	Real-Time Implementation of a Harmony Search Algorithm-Based Clustering Protocol for Energy-Efficient Wireless Sensor Networks. IEEE Transactions on Industrial Informatics, 2014, 10, 774-783.	7.2	183
6	Single-Phase Inverter Control Techniques for Interfacing Renewable Energy Sources With Microgrid—Part I: Parallel-Connected Inverter Topology With Active and Reactive Power Flow Control Along With Grid Current Shaping. IEEE Transactions on Power Electronics, 2011, 26, 717-731.	5.4	181
7	A Modular Control Scheme for PMSM Speed Control With Pulsating Torque Minimization. IEEE Transactions on Industrial Electronics, 2004, 51, 526-536.	5.2	178
8	Optimized Wind Energy Harvesting System Using Resistance Emulator and Active Rectifier for Wireless Sensor Nodes. IEEE Transactions on Power Electronics, 2011, 26, 38-50.	5.4	176
9	Single-Phase Inverter-Control Techniques for Interfacing Renewable Energy Sources With Microgrid—Part II: Series-Connected Inverter Topology to Mitigate Voltage-Related Problems Along With Active Power Flow Control. IEEE Transactions on Power Electronics, 2011, 26, 732-746.	5.4	138
10	An Output-Power-Control Strategy for a Three-Phase PWM Rectifier Under Unbalanced Supply Conditions. IEEE Transactions on Industrial Electronics, 2008, 55, 2140-2151.	5.2	134
11	Optimization of Distribution Network Incorporating Distributed Generators: An Integrated Approach. IEEE Transactions on Power Systems, 2013, 28, 2421-2432.	4.6	133
12	A Lyapunov Function-Based Robust Direct Torque Controller for a Switched Reluctance Motor Drive System. IEEE Transactions on Power Electronics, 2012, 27, 555-564.	5.4	129
13	Self-Autonomous Wireless Sensor Nodes With Wind Energy Harvesting for Remote Sensing of Wind-Driven Wildfire Spread. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 1367-1377.	2.4	117
14	Speed Ripple Minimization in PM Synchronous Motor Using Iterative Learning Control. IEEE Transactions on Energy Conversion, 2005, 20, 53-61.	3.7	111
15	Design of a Plug-In Repetitive Control Scheme for Eliminating Supply-Side Current Harmonics of Three-Phase PWM Boost Rectifiers Under Generalized Supply Voltage Conditions. IEEE Transactions on Power Electronics, 2010, 25, 1800-1810.	5.4	108
16	Application of Four-Switch-Based Three-Phase Grid-Connected Inverter to Connect Renewable Energy Source to a Generalized Unbalanced Microgrid System. IEEE Transactions on Industrial Electronics, 2013, 60, 1204-1215.	5.2	101
17	Lyapunov Function-Based Current Controller to Control Active and Reactive Power Flow From a Renewable Energy Source to a Generalized Three-Phase Microgrid System. IEEE Transactions on Industrial Electronics, 2013, 60, 799-813.	5.2	100
18	A Siting and Sizing Optimization Approach for PV—Battery—Diesel Hybrid Systems. IEEE Transactions on Industry Applications, 2018, 54, 2637-2645.	3.3	100

#	Article	IF	Citations
19	Monofacial vs bifacial Si-based PV modules: Which one is more cost-effective?. Solar Energy, 2018, 176, 412-438.	2.9	98
20	Indirect Torque Control of Switched Reluctance Motors Using Iterative Learning Control. IEEE Transactions on Power Electronics, 2005, 20, 200-208.	5.4	87
21	A multi-objective and robust optimization approach for sizing and placement of PV and batteries in off-grid systems fully operated by diesel generators: An Indonesian case study. Energy, 2018, 160, 410-429.	4.5	85
22	Iterative Learning-Based High-Performance Current Controller for Switched Reluctance Motors. IEEE Transactions on Energy Conversion, 2004, 19, 491-498.	3.7	78
23	A Simple Single-Input–Single-Output (SISO) Model for a Three-Phase PWM Rectifier. IEEE Transactions on Power Electronics, 2009, 24, 620-631.	5.4	76
24	Dynamic control of torque in overmodulation and in the field weakening region. IEEE Transactions on Power Electronics, 2006, 21, 1091-1098.	5.4	72
25	Fault Prognosis for Power Electronics Systems Using Adaptive Parameter Identification. IEEE Transactions on Industry Applications, 2017, 53, 2862-2870.	3.3	71
26	Triple Phase Shift Control of an LLL Tank Based Bidirectional Dual Active Bridge Converter. IEEE Transactions on Power Electronics, 2017, 32, 8035-8053.	5.4	68
27	A Robust Harmony Search Algorithm Based Clustering Protocol for Wireless Sensor Networks. , 2010, , .		67
28	Fault Detection and Localization for Cascaded H-Bridge Multilevel Converter With Model Predictive Control. IEEE Transactions on Power Electronics, 2020, 35, 10109-10120.	5.4	67
29	Design, Modeling, and Control of Piezoelectric Actuators for Intracytoplasmic Sperm Injection. IEEE Transactions on Control Systems Technology, 2007, 15, 879-890.	3.2	65
30	Torque Ripple Analysis and Dynamic Performance of a Space Vector Modulation Based Control Method for AC-Drives. IEEE Transactions on Power Electronics, 2005, 20, 485-492.	5.4	64
31	Reduction of Input Current Harmonic Distortions and Balancing of Output Voltages of the Vienna Rectifier Under Supply Voltage Disturbances. IEEE Transactions on Power Electronics, 2017, 32, 5802-5812.	5.4	64
32	Thermal energy harvesting from human warmth for wireless body area network in medical healthcare system. , 2009, , .		62
33	Low torque ripple control of switched reluctance motors using iterative learning. IEEE Transactions on Energy Conversion, 2001, 16, 318-326.	3.7	61
34	Analysis of the Instantaneous Power Flow for Three-Phase PWM Boost Rectifier Under Unbalanced Supply Voltage Conditions. IEEE Transactions on Power Electronics, 2008, 23, 1679-1691.	5.4	61
35	Electric Spring for Voltage and Power Stability and Power Factor Correction. IEEE Transactions on Industry Applications, 2017, 53, 3871-3879.	3.3	61
36	Hybrid Model for Wound-Rotor Synchronous Generator to Detect and Diagnose Turn-to-Turn Short-Circuit Fault in Stator Windings. IEEE Transactions on Industrial Electronics, 2015, 62, 1888-1900.	5.2	60

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37	Multi-objective parametric optimization of powder mixed electro-discharge machining using response surface methodology and non-dominated sorting genetic algorithm. Sadhana - Academy Proceedings in Engineering Sciences, 2012, 37, 223-240.	0.8	59
38	Online Model-Based Condition Monitoring for Brushless Wound-Field Synchronous Generator to Detect and Diagnose Stator Windings Turn-to-Turn Shorts Using Extended Kalman Filter. IEEE Transactions on Industrial Electronics, 2016, 63, 3228-3241.	5.2	54
39	Optimal data aggregation tree in wireless sensor networks based on intelligent water drops algorithm. IET Wireless Sensor Systems, 2012, 2, 282.	1.3	51
40	A novel multi-objective directed bee colony optimization algorithm for multi-objective emission constrained economic power dispatch. International Journal of Electrical Power and Energy Systems, 2012, 43, 1241-1250.	3.3	50
41	Realisation of a cluster–based protocol using fuzzy C–means algorithm for wireless sensor networks. IET Wireless Sensor Systems, 2013, 3, 163-171.	1.3	48
42	A Comprehensive Harmonic Analysis and Control Strategy for Improved Input Power Quality in a Cascaded Modular Solid State Transformer. IEEE Transactions on Power Electronics, 2019, 34, 6219-6232.	5.4	48
43	DC Link Voltage and Supply-Side Current HarmonicsMinimization of Three Phase PWM BoostRectifiers Using Frequency Domain BasedRepetitive Current Controllers. IEEE Transactions on Power Electronics, 2008, 23, 1987-1997.	5.4	47
44	A Plug and Play Operational Approach for Implementation of an Autonomous-Micro-Grid System. IEEE Transactions on Industrial Informatics, 2012, 8, 615-629.	7.2	47
45	Battery Energy Storage for Seamless Transitions of Wind Generator in Standalone Microgrid. IEEE Transactions on Industry Applications, 2019, 55, 69-77.	3.3	46
46	A diesel replacement strategy for off-grid systems based on progressive introduction of PV and batteries: An Indonesian case study. Applied Energy, 2018, 229, 1218-1232.	5.1	45
47	Cloning and Functional Characterization of a Vacuolar Na^+/H^+ Antiporter Gene from Mungbean (VrNHX1) and Its Ectopic Expression Enhanced Salt Tolerance in Arabidopsis thaliana. PLoS ONE, 2014, 9, e106678.	1.1	44
48	A Single-Stage Matrix-Based Isolated Three-Phase AC–DC Converter With Novel Current Commutation. IEEE Transactions on Transportation Electrification, 2017, 3, 814-830.	5.3	44
49	An Improved Harmony Search algorithm for optimal scheduling of the diesel generators in oil rig platforms. Energy Conversion and Management, 2011, 52, 893-902.	4.4	43
50	A Fault Diagnosis and Postfault Reconfiguration Scheme for Interleaved Boost Converter in PV-Based System. IEEE Transactions on Power Electronics, 2021, 36, 3769-3780.	5.4	42
51	Condition monitoring of power electronic converters in power plants â€" A review. , 2017, , .		40
52	Shared energy storage management for renewable energy integration in smart grid. , 2016, , .		39
53	Review of torque ripple minimization in PM synchronous motor drives. , 2008, , .		35
54	An SiC-MOSFET-Based Nine-Switch Single-Stage Three-Phase AC–DC Isolated Converter. IEEE Transactions on Industrial Electronics, 2017, 64, 9083-9093.	5.2	32

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55	Stator Flux Based Space-Vector Modulation and Closed Loop Control of the Stator Flux Vector in Overmodulation Into Six-Step Mode. IEEE Transactions on Power Electronics, 2004, 19, 775-782.	5.4	31
56	ReViCEE: A recommendation based approach for personalized control, visual comfort & energy efficiency in buildings. Building and Environment, 2019, 152, 135-144.	3.0	31
57	A Multipurpose and Power Quality Improved Electric Vessels Charging Station for the Seaports. IEEE Transactions on Industrial Informatics, 2023, 19, 3254-3261.	7.2	31
58	Self-Sensing Actuation With Adaptive Control in Applications With Switching Trajectory. IEEE/ASME Transactions on Mechatronics, 2008, 13, 104-111.	3.7	30
59	A Matrix-Based Nonisolated Three-Phase AC–DC Rectifier With Large Step-Down Voltage Gain. IEEE Transactions on Power Electronics, 2017, 32, 4796-4811.	5.4	30
60	A New Control Architecture With Spatial Comb Filter and Spatial Repetitive Controller for Circulating Current Harmonics Elimination in a Droop-Regulated Modular Multilevel Converter for Wind Farm Application. IEEE Transactions on Power Electronics, 2019, 34, 10509-10523.	5.4	30
61	A Novel Open-Circuit Fault Detection and Localization Scheme for Cascaded H-Bridge Stage of a Three-Stage Solid-State Transformer. IEEE Transactions on Power Electronics, 2021, 36, 8713-8729.	5.4	30
62	Command Authentication Using Multiagent System for Attacks on the Economic Dispatch Problem. IEEE Transactions on Industry Applications, 2022, 58, 4381-4393.	3.3	30
63	A Special Application Criterion of the Nine-Switch Converter With Reduced Conduction Loss. IEEE Transactions on Industrial Electronics, 2018, 65, 2853-2862.	5.2	29
64	Machine-Learning-Aided Optimization Framework for Design of Medium-Voltage Grid-Connected Solid-State Transformers. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 6886-6900.	3.7	29
65	Smart High Power Charging Networks and Optimal Control Mechanism for Electric Ships. IEEE Transactions on Industrial Informatics, 2023, 19, 1476-1483.	7.2	28
66	Low Torque Ripple Control of Switched Reluctance Motors Using Iterative Learning. IEEE Power Engineering Review, 2001, 21, 66-66.	0.1	27
67	Fault detection and diagnosis in synchronous motors using hidden Markov model-based semi-nonparametric approach. Engineering Applications of Artificial Intelligence, 2013, 26, 1919-1929.	4.3	27
68	A Novel ZVS DC–DC Full-Bridge Converter With Hold-Up Time Operation. IEEE Transactions on Industrial Electronics, 2017, 64, 4491-4500.	5.2	27
69	Capacitor Voltage Ripple Suppression in a Modular Multilevel Converter Using Frequency-Adaptive Spatial Repetitive-Based Circulating Current Controller. IEEE Transactions on Power Electronics, 2020, 35, 9839-9849.	5.4	27
70	Derivation of instantaneous current references for three phase PV inverter connected to grid with active and reactive power flow control. , 2011, , .		26
71	Load-side demand management in buildings using controlled electric springs. , 2014, , .		26
72	Implementation of Smart LED Lighting and Efficient Data Management System for Buildings. Energy Procedia, 2017, 143, 173-178.	1.8	26

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73	Optimization of economic load dispatch for a microgrid using evolutionary computation. , 2011, , .		25
74	Comparison of two techniques for closed-loop drive of VR step motors without direct rotor position sensing. IEEE Transactions on Industrial Electronics, 1991, 38, 95-101.	5.2	24
75	Analysis and Design of SQR-Based High-Voltage LLC Resonant DC–DC Converter. IEEE Transactions on Power Electronics, 2017, 32, 4466-4481.	5.4	24
76	On the PV Tracker Performance: Tracking the Sun Versus Tracking the Best Orientation. IEEE Journal of Photovoltaics, 2020, 10, 1474-1480.	1.5	24
77	Analysis of Modulation and Optimal Design Methodology for Half-Bridge Matrix-Based Dual-Active-Bridge (MB-DAB) AC–DC Converter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 881-894.	3.7	24
78	Direct Method of Overmodulation With Integrated Closed Loop Stator Flux Vector Control. IEEE Transactions on Power Electronics, 2005, 20, 1161-1168.	5.4	23
79	Application of Spatial Iterative Learning Control for Direct Torque Control of Switched Reluctance Motor Drive. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	23
80	Optimal Power Flow Solution Using Self–Evolving Brain–Storming Inclusive Teaching–Learning–Based Algorithm. Lecture Notes in Computer Science, 2013, , 338-345.	1.0	23
81	Optimal Thrust Allocation for Semisubmersible Oil Rig Platforms Using Improved Harmony Search Algorithm. IEEE Journal of Oceanic Engineering, 2014, 39, 526-539.	2.1	23
82	An intelligent home appliance control-based on WSN for smart buildings. , 2016, , .		23
83	A Review on Bidirectional Matrix-Based AC-DC Conversion for Modular Solid-State-Transformers. , 2019, , .		23
84	Analysis and Design of APWM Half-Bridge Series Resonant Converter With Magnetizing Current Assisted ZVS. IEEE Transactions on Industrial Electronics, 2017, 64, 1993-2003.	5.2	22
85	A current modulation scheme for direct torque control of switched reluctance motor using fuzzy logic. Mechatronics, 2000, 10, 353-370.	2.0	21
86	A Lyapunov function based current controller to control active and reactive power flow in a three phase grid connected PV inverter under generalized grid voltage conditions. , 2011, , .		21
87	Neutral current mitigation using controlled electric springs connected to microgrids within built environment. , 2014, , .		21
88	Switchgear Condition Assessment and Lifecycle Management: Standards, Failure Statistics, Condition Assessment, Partial Discharge Analysis, Maintenance Approaches, and Future Trends. IEEE Electrical Insulation Magazine, 2021, 37, 27-41.	1.1	21
89	Automatic frequency tuning wireless charging system for enhancement of efficiency. Electronics Letters, 2014, 50, 1868-1870.	0.5	20
90	Feasibility study on wind energy harvesting system implementation in moving trains. Electrical Engineering, 2018, 100, 1837-1845.	1.2	20

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91	Transactive Energy Market Framework for Decentralized Coordination of Demand Side Management Within a Cluster of Buildings. IEEE Transactions on Industry Applications, 2021, 57, 3385-3395.	3.3	20
92	An optimized MPPT circuit for thermoelectric energy harvester for low power applications. , 2011, , .		19
93	Medium voltage multilevel converters for ship electric propulsion drives. , 2015, , .		19
94	Implementation of Power Balance Control Scheme for a Cascaded Matrix-Based Dual-Active-Bridge (CMB-DAB) MVAC-LVDC Converter. IEEE Transactions on Industry Applications, 2022, 58, 388-399.	3.3	19
95	Efficient solar energy harvester for wireless sensor nodes. , 2010, , .		18
96	Highly efficient wireless energy harvesting system using metamaterial based compact CP antenna. , 2013, , .		18
97	Optimal PV and storage sizing for PV-battery-diesel hybrid systems. , 2016, , .		18
98	Inter-Turn Fault Detection of Dry-Type Transformers Using Core-Leakage Fluxes. IEEE Transactions on Power Delivery, 2019, 34, 1230-1241.	2.9	18
99	Modular Interleaved Soft-Switching DC-DC Converter for High-Altitude Wind Energy Application. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 727-738.	3.7	17
100	A novel matrix based isolated three phase AC-DC converter with reduced switching losses. , 2015, , .		17
101	Resonance-Based Wireless Energizing of Piezoelectric Components. IEEE Magnetics Letters, 2011, 2, 6000204-6000204.	0.6	16
102	A single-stage isolated bidirectional matrix based AC-DC converter for energy storage. , 2017, , .		16
103	Performance analysis and evaluation of reactive power compensating electric spring with linear loads. International Journal of Electrical Power and Energy Systems, 2018, 101, 116-126.	3.3	16
104	A Bidirectional Matrix-Based AC-DC Dual-Active Bridge for Modular Solid-State-Transformers. , 2020, , .		16
105	Overview of high altitude wind energy harvesting system. , 2013, , .		15
106	Fault diagnosis via PV panel-integrated power electronics. , 2016, , .		15
107	Hydrodynamics study of a BCF mode bioinspired robotic-fish underwater vehicle using Lighthillâ€™s slender body model. Journal of Marine Science and Technology, 2016, 21, 102-114.	1.3	15
108	Progressing towards DC electrical systems for marine vessels. Energy Procedia, 2017, 143, 27-32.	1.8	15

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109	A luenberger observer-based fault detection and identification scheme for photovoltaic DC-DC converters. , 2017, , .		15
110	Alternating current and direct current-based electrical systems for marine vessels with electric propulsion drives. Applied Energy, 2018, 231, 747-756.	5.1	15
111	Modulation of Direct Matrix-Based Dual-Active-Bridge (MB-DAB) AC-DC Converters. , 2021, , .		15
112	Improved Performance With Dual-Model Predictive Control for Cascaded H-Bridge Multilevel Converter. IEEE Transactions on Industry Applications, 2019, 55, 4886-4899.	3.3	14
113	Analytical Expression-Based Modulation for Soft-Switched Matrix-Based Dual-Active-Bridge (S2MB-DAB) Single-Phase AC-DC Converter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 6511-6522.	3.7	14
114	Fuel efficiency improvement by optimal scheduling of diesel generators using PSO in offshore support vessel with DC power system architecture. , 2015, , .		13
115	Pervasive Intelligence System to Enable Safety and Assistance in Kitchen for Home-Alone Elderly. Lecture Notes in Computer Science, 2011, , 276-280.	1.0	13
116	Dual axis sun tracking system with PV cell as the sensor, utilizing hybrid electrical characteristics of the cell to determine insolation. , 2010, , .		12
117	Improved Harmony Search algorithm based optimal design of the brushless DC wheel motor. , 2010, , .		12
118	Energy-Efficient Thrust Allocation for Semi-Submersible Oil Rig Platforms Using Improved Harmony Search Algorithm. IEEE Transactions on Industrial Informatics, 2012, 8, 913-924.	7.2	12
119	Online condition monitoring and diagnosis techniques for dry type transformers incipient fault analysis through finite element modelling. , 2016, , .		12
120	Detection and analysis of winding and demagnetization faults in PMSM based marine propulsion motors. , 2017, , .		12
121	Modeling, Design, and Implementation of a Power Conversion System for Small-Scale High-Altitude Wind Power Generating System. IEEE Transactions on Industry Applications, 2017, 53, 283-295.	3.3	12
122	Eccentricity fault analysis in PMSM based marine propulsion motors. , 2017, , .		12
123	Degradation Detection and Diagnosis of Inductors in LCL Filter Integrated With Active Front End Rectifier. IEEE Transactions on Power Electronics, 2018, 33, 1622-1632.	5.4	12
124	Optimal placement of off-shore wind turbines and subsequent micro-siting using Intelligently Tuned Harmony Search algorithm. , 2013, , .		11
125	High-frequency soft-switching LCC resonant current-fed DC/DC converter with high voltage gain for DC microgrid application. , 2014, , .		11
126	Placement and sizing optimization for PV-battery-diesel hybrid systems. , 2016, , .		11

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127	Novel High-Power Nonresonant Multichannel LED Driver. IEEE Transactions on Industrial Electronics, 2017, 64, 5851-5864.	5.2	11
128	Small-Signal Stability Improvement of Microgrid With Battery Energy Storage System Based on Real-Time Grid Impedance Measurement. IEEE Transactions on Industry Applications, 2022, 58, 2537-2546.	3.3	11
129	A new control strategy for single phase series connected PV module inverter for grid voltage compensation. , 2009, , .		10
130	Dynamic modeling of variable ballast tank for spherical underwater robot. , 2013, , .		10
131	Optimal scheduling of diesel generators in offshore support vessels to minimize fuel consumption. , 2015, , .		10
132	Vibration signature analysis of stator winding fault diagnosis in brushless synchronous generators. , 2015, , .		10
133	Generation and Transmission of Electrical Energy in High-Altitude Wind Power Generating System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 459-470.	3.7	10
134	Tap changing transformer based dual active bridge bi-directional DC-DC converter. , 2015, , .		10
135	A high power density three phase AC-DC converter for more electric aircraft (MEA). , 2015, , .		10
136	Spatial repetitive controller for minimizing circulating harmonic currents in modular multilevel converters for variable frequency applications. , 2016, , .		10
137	Energy management for demand responsive users with shared energy storage system. , 2016, , .		10
138	Design, fabrication and testing of smart lighting system. , 2016, , .		10
139	Subsea power transmission cable modelling: Reactive power compensation and transient response studies. , 2016, , .		10
140	Photovoltaic condition monitoring using real-time adaptive parameter identification. , 2017, , .		10
141	Voltage and current-harmonics induced ageing in electrical insulation. , 2017, , .		10
142	Design of Integrated Medium Frequency Transformer (iMFT) for Dual-Active-Bridge (DAB) Based Solid-State-Transformers. , 2021, , .		10
143	Power Balance Control of Cascaded Matrix-Based Dual-Active-Bridge Converter. , 2020, , .		10
144	An Open-Circuit Fault Detection and Localization Scheme for Cascaded H-Bridge Multilevel Converter Without Additional Sensors. IEEE Transactions on Industry Applications, 2022, 58, 457-467.	3.3	10

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145	Dynamic analysis of cylindrical ultrasonic motor under external excitation. Sensors and Actuators A: Physical, 2003, 105, 247-254.	2.0	9
146	Applicability of synchronized charge extraction technique for piezoelectric energy harvesting. , 2011, , .		9
147	Harnessing high altitude wind power using light gas filled blimp. , 2013, , .		9
148	An open-switch fault detection method for cascaded H-bridge multilevel inverter fed industrial drives. , 2016, , .		9
149	Performance evaluation of electric spring: Effect of load variation on voltage regulation. , 2016, , .		9
150	A fault tolerant control approach for a three-stage cascaded multilevel solid state transformer. , 2017, , .		9
151	Reliable detection of open-circuit faults in cascaded H-bridge multilevel inverter via current residual analysis. , 2017, , .		9
152	Methodology to qualify marine electrical propulsion system architectures for platform supply vessels. IET Electrical Systems in Transportation, 2018, 8, 152-165.	1.5	9
153	A Matrix-based Isolated Bidirectional AC-DC Converter with <i>LCL</i> type Input Filter for Energy Storage Applications. IEEJ Journal of Industry Applications, 2019, 8, 644-651.	0.9	9
154	Supply-side Current Harmonics Control of Three Phase PWM Boost Rectifiers Under Distorted and Unbalanced Supply Voltage Conditions. , 2007, , .		8
155	Design of a Spatial iterative learning controller for single phase series connected PV module inverter for grid voltage compensation. , 2010, , .		8
156	Inverse dynamics control of a bio-inspired robotic-fish underwater vehicle propulsion based on Lighthill slender body theory. , 2014, , .		8
157	An interactive LED lighting interface for high energy savings. , 2014, , .		8
158	A visually guided spherical underwater robot. , 2015, , .		8
159	Electric spring for voltage and power stability and power factor correction. , 2015, , .		8
160	Improvement in efficiency and reliability for diesel- electric propulsion based marine vessels using genetic algorithm. , 2016, , .		8
161	A review on condition monitoring of GIS. , 2017, , .		8
162	Improvement of power quality and reliability in the distribution system of petrochemical plants using active power filters. , 2018, , .		8

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163	Impact of altitude and power rating on power-to-weight and power-to-cost ratios of the high altitude wind power generating system. Renewable Energy, 2018, 115, 16-27.	4.3	8
164	GIS Integrated Automation of a Near Real-Time Power-Flow Service for Electrical Grids. IEEE Transactions on Industry Applications, 2018, 54, 5661-5670.	3.3	8
165	Development of a New Mathematical Model of Three Phase PWM Boost Rectifier Under Unbalanced Supply Voltage Operating Conditions. , 0, , .		7
166	Effect of Pulse-Width Modulation Schemes on the Performance of Three-Phase Voltage Source Converter. , 2007, , .		7
167	A novel current control scheme using Lyapunov function to control the active and reactive power flow in a single phase hybrid PV inverter system connected to the grid. , 2010, , .		7
168	Finding answers to biological control methods using modulated patterns: An application to bio-inspired robotic fish. , 2015, , .		7
169	PVâ€GO: A multiobjective and robust optimization approach for the grid metallization design of Siâ€based solar cells and modules. Progress in Photovoltaics: Research and Applications, 2019, 27, 113-135.	4.4	7
170	On the Grid Metallization Optimization Design for Monofacial and Bifacial Si-Based PV Modules for Real-World Conditions. IEEE Journal of Photovoltaics, 2019, 9, 112-118.	1.5	7
171	Survey of Open-circuit Fault Detection and Localization Methods Applicable to Cascaded H-bridge Multilevel Converters. , 2020, , .		7
172	Inter-Turn Fault Detection of Induction Motors Using End-Shield Leakage Fluxes. IEEE Transactions on Energy Conversion, 2022, 37, 2260-2270.	3.7	7
173	Application of artificial intelligence techniques to the study of machine signatures. , 2012, , .		6
174	Kinematics study and implementation of a biomimetic robotic-fish underwater vehicle based on Lighthill slender body model. , 2012, , .		6
175	Thermal prognosis of dry-type transformer: Simulation study on load and ambient temperature impacts. , 2015, , .		6
176	Maximum power-point tracking of high altitude wind power generating system using optimal vector control technique. , 2015, , .		6
177	A reinforcement learning algorithm for Agent-based Computational Economics (ACE) model of electricity markets. , 2015, , .		6
178	Performance of Electric Springs with multiple variable loads. , 2016, , .		6
179	Design, analysis and implementation of a four-tier centralized control architecture for intelligent operation of grid-connected microgrids. , 2016, , .		6
180	A repetitive and Lyapunov function-based control approach for improved steady state and dynamic performance of modular multilevel converters. , 2017, , .		6

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182	An improved robust adaptive parameter identifier for DC-DC converters using H-infinity design. , 2018, , .		6
183	Computational Feasibility of Multi-objective Optimal Design Techniques for Grid-Connected Multi-cell Solid-State-Transformers. , 2021, , .		6
184	Intelligent compensation of friction, ripple, and hysteresis via a regulated chatter. ISA Transactions, 2006, 45, 419-433.	3.1	5
185	Performance Comparison of Voltage Mode Control and Current Mode Control of a Three-Phase PWM Rectifier based on a Dual SISO Model. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	5
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187	A real time control algorithm for a myoelectric glove for the rehabilitation of wrist and elbow of stroke patients. , 2010, , .		5
188	Optimization of the power generation scheduling in oil-rig platforms using Genetic Algorithm. , 2010, , .		5
189	A novel four-leg three-phase inverter control strategy to reduce the data center thermal losses: Elimination of neutral current. , 2012, , .		5
190	A study on torque modelling of switched reluctance motors. , 2013, , .		5
191	Modular interleaved ZVS current fed isolated DC-DC converter for harvesting high altitude wind power. , 2013, , .		5
192	A new phase shedding and phase adding control scheme for interleaved DAB converter operating in IPOP configuration. , 2015, , .		5
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