

Sanjib Kumar Panda

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

269
papers

4,672
citations

38
h-index

59
g-index

328
ext. papers

6,030
ext. citations

5.3
avg, IF

6.17
L-index

#	Paper	IF	Citations
269	Small Signal Stability Improvement of Microgrid with Battery Energy Storage System Based on Real-time Grid Impedance Measurement. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	3
268	Diagnosing disk-space variation in transformer windings using high-frequency inductance measurement. <i>IEEE Transactions on Power Delivery</i> , 2022 , 1-1	4.3	
267	Command Authentication using Multi-Agent System for Attacks on the Economic Dispatch Problem. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	3
266	Smart High Power Charging Networks and Optimal Control Mechanism for Electric Ships. <i>IEEE Transactions on Industrial Informatics</i> , 2022 , 1-1	11.9	5
265	A Multipurpose and Power Quality Improved Electric Vessels Charging Station for the Seaports. <i>IEEE Transactions on Industrial Informatics</i> , 2022 , 1-1	11.9	6
264	Inter-turn Fault Detection of Induction Motors using End-shield Leakage Fluxes. <i>IEEE Transactions on Energy Conversion</i> , 2022 , 1-1	5.4	0
263	Computational Feasibility of Multi-objective Optimal Design Techniques for Grid-Connected Multi-cell Solid-State-Transformers 2021 ,		3
262	An Open-Circuit Fault Detection and Localization Scheme for Cascaded H-Bridge Multilevel Converter Without Additional Sensors. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	2
261	Analytical Expression-Based Modulation for Soft-Switched Matrix-Based Dual-Active-Bridge (S2MB-DAB) Single-Phase AC-DC Converter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	4
260	Implementation of Power Balance Control Scheme for a Cascaded Matrix-Based Dual-Active-Bridge (CMB-DAB) MVAC-LVDC Converter. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	4
259	Design of Integrated Medium Frequency Transformer (iMFT) for Dual-Active-Bridge (DAB) Based Solid-State-Transformers 2021 ,		6
258	Modulation of Direct Matrix-Based Dual-Active-Bridge (MB-DAB) AC-DC Converters 2021 ,		11
257	Switchgear Condition Assessment and Lifecycle Management: Standards, Failure Statistics, Condition Assessment, Partial Discharge Analysis, Maintenance Approaches, and Future Trends. <i>IEEE Electrical Insulation Magazine</i> , 2021 , 37, 27-41	2.1	6
256	A Fault Diagnosis and Postfault Reconfiguration Scheme for Interleaved Boost Converter in PV-Based System. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 3769-3780	7.2	17
255	A Novel Open-Circuit Fault Detection and Localization Scheme for Cascaded H-Bridge Stage of a Three-Stage Solid-State Transformer. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 8713-8729	7.2	10
254	Machine Learning Aided Optimization Framework for Design of Medium-Voltage Grid-Connected Solid-State-Transformers. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	8
253	Transactive Energy Market Framework for Decentralized Coordination of Demand Side Management Within a Cluster of Buildings. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 3385-3395	4.3	5

252	Non-invasive Model-based Open-Circuit Switch Fault Detection of AC-Bypass Leg Switches in Transformerless PV Inverter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	0
251	Analysis of Modulation and Optimal Design Methodology for Half-Bridge Matrix-Based Dual-Active-Bridge (MB-DAB) AC-DC Converter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	10
250	Fault Detection and Localization for Cascaded H-Bridge Multilevel Converter With Model Predictive Control. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 10109-10120	7.2	28
249	Capacitor Voltage Ripple Suppression in a Modular Multilevel Converter Using Frequency-Adaptive Spatial Repetitive-Based Circulating Current Controller. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 9839-9849	7.2	11
248	Survey of Open-circuit Fault Detection and Localization Methods Applicable to Cascaded H-bridge Multilevel Converters 2020 ,		2
247	Analysis of Balance Controllers for Cascaded Modular Solid-State Transformer during Steady-state, Transient and Fault Conditions 2020 ,		3
246	Small Signal Stability Analysis of Three-Phase Microgrid in the Presence of Energy Storage System 2020 ,		1
245	Power Balance Control of Cascaded Matrix-Based Dual-Active-Bridge Converter 2020 ,		5
244	Context-Aware Plug-Load Identification Toward Enhanced Energy Efficiency in the Built Environment. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 6781-6791	4.3	2
243	. <i>IEEE Journal of Photovoltaics</i> , 2020 , 10, 1474-1480	3.7	8
242	A Bidirectional Matrix-Based AC-DC Dual-Active Bridge for Modular Solid-State-Transformers 2020 ,		10
241	A Digital Twin Approach for Fault Diagnosis in Distributed Photovoltaic Systems. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 940-956	7.2	83
240	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. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 10509-10523	7.2	12
239	ReViCEE: A recommendation based approach for personalized control, visual comfort & energy efficiency in buildings. <i>Building and Environment</i> , 2019 , 152, 135-144	6.5	23
238	Battery Energy Storage for Seamless Transitions of Wind Generator in Standalone Microgrid. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 69-77	4.3	23
237	PV-GO: A multiobjective and robust optimization approach for the grid metallization design of Si-based solar cells and modules. <i>Progress in Photovoltaics: Research and Applications</i> , 2019 , 27, 113-135	6.8	7
236	Improved Performance With Dual-Model Predictive Control for Cascaded H-Bridge Multilevel Converter. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 4886-4899	4.3	4
235	A Complete Hardware Setup for Smart Lighting System 2019 ,		2

234	Simulation of a Standalone Microgrid with Hybrid Energy Sources 2019 ,		1
233	A Review on Bidirectional Matrix-Based AC-DC Conversion for Modular Solid-State-Transformers 2019 ,		13
232	Diagnosis and Prognosis of LCL Filter in Marine Electric Propulsion Systems 2019 ,		1
231	A Matrix-based Isolated Bidirectional AC-DC Converter with LCL type Input Filter for Energy Storage Applications. <i>IEEE Journal of Industry Applications</i> , 2019 , 8, 644-651	0.7	0
230	On the Grid Metallization Optimization Design for Monofacial and Bifacial Si-Based PV Modules for Real-World Conditions. <i>IEEE Journal of Photovoltaics</i> , 2019 , 9, 112-118	3.7	4
229	Inter-Turn Fault Detection of Dry-Type Transformers Using Core-Leakage Fluxes. <i>IEEE Transactions on Power Delivery</i> , 2019 , 34, 1230-1241	4.3	11
228	A Comprehensive Harmonic Analysis and Control Strategy for Improved Input Power Quality in a Cascaded Modular Solid State Transformer. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 6219-6232	7.2	23
227	Feasibility study on wind energy harvesting system implementation in moving trains. <i>Electrical Engineering</i> , 2018 , 100, 1837-1845	1.5	7
226	. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 2637-2645	4.3	61
225	Detection and Isolation of Interturn Faults in Inductors of LCL Filter for Marine Electric Propulsion System. <i>IEEE Transactions on Transportation Electrification</i> , 2018 , 4, 232-248	7.6	4
224	Improvement of power quality and reliability in the distribution system of petrochemical plants using active power filters 2018 ,		2
223	Spatial repetitive controller for improved steady state performance of droop regulated modular multilevel converter in wind farm application 2018 ,		2
222	Performance analysis and evaluation of reactive power compensating electric spring with linear loads. <i>International Journal of Electrical Power and Energy Systems</i> , 2018 , 101, 116-126	5.1	8
221	A Special Application Criterion of the Nine-Switch Converter With Reduced Conduction Loss. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 2853-2862	8.9	18
220	Degradation Detection and Diagnosis of Inductors in LCL Filter Integrated With Active Front End Rectifier. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 1622-1632	7.2	7
219	Impact of altitude and power rating on power-to-weight and power-to-cost ratios of the high altitude wind power generating system. <i>Renewable Energy</i> , 2018 , 115, 16-27	8.1	7
218	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. <i>Energy</i> , 2018 , 160, 410-429	7.9	65
217	GIS Integrated Automation of a Near Real-Time Power-Flow Service for Electrical Grids. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 5661-5670	4.3	6

216	Methodology to qualify marine electrical propulsion system architectures for platform supply vessels. <i>IET Electrical Systems in Transportation</i> , 2018 , 8, 152-165	2.1	6
215	D-Q Frame Impedance Measurement and Small Signal Stability Improvement in a 3- ϕ System with Constant Power Loads by an Active Control Method 2018 ,		2
214	Condition Monitoring framework for Converter Transformers used in Marine Electric Propulsion 2018 ,		1
213	A Matrix-Based Solid-State-Transformer For A Hybrid Nanogrid 2018 ,		3
212	Building energy management system for transactive energy framework 2018 ,		1
211	The Input Displacement Power Factor Compensation of a Matrix Based Isolated Bidirectional AC-DC converter 2018 ,		1
210	Dual-Model Predictive Control for Cascaded H-Bridge Multilevel Active Rectifier with DC Voltage Balancing in a Solid-State Transformer 2018 ,		1
209	Alternating current and direct current-based electrical systems for marine vessels with electric propulsion drives. <i>Applied Energy</i> , 2018 , 231, 747-756	10.7	10
208	Monofacial vs bifacial Si-based PV modules: Which one is more cost-effective?. <i>Solar Energy</i> , 2018 , 176, 412-438	6.8	48
207	A diesel replacement strategy for off-grid systems based on progressive introduction of PV and batteries: An Indonesian case study. <i>Applied Energy</i> , 2018 , 229, 1218-1232	10.7	32
206	An improved robust adaptive parameter identifier for DC-DC converters using H-infinity design 2018 ,		3
205	Effect of line impedance on electric spring control 2018 ,		2
204	Model-Based Fault Detection and Identification for Switching Power Converters. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 1419-1430	7.2	112
203	Novel High-Power Nonresonant Multichannel LED Driver. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 5851-5864	8.9	9
202	A Novel ZVS DCDC Full-Bridge Converter With Hold-Up Time Operation. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 4491-4500	8.9	18
201	. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 2862-2870	4.3	44
200	An SiC-MOSFET-Based Nine-Switch Single-Stage Three-Phase ACDC Isolated Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 9083-9093	8.9	17
199	Angle compensation based rotor position estimation for sensorless vector control of the permanent magnet synchronous motor 2017 ,		2

198	. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 3871-3879	4.3	39
197	Analysis and Design of APWM Half-Bridge Series Resonant Converter With Magnetizing Current Assisted ZVS. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 1993-2003	8.9	15
196	Triple Phase Shift Control of an LLL Tank Based Bidirectional Dual Active Bridge Converter. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 8035-8053	7.2	42
195	Solid state transformer control aspects for various smart grid scenarios 2017 ,		2
194	A new control approach for improved dynamic performance of MMC based HVDC subsea power transmission system 2017 ,		2
193	MMC based multi-terminal HVDC subsea power transmission system with the integration of offshore renewable energy 2017 ,		3
192	Voltage and current-harmonics induced ageing in electrical insulation 2017 ,		5
191	A fault tolerant control approach for a three-stage cascaded multilevel solid state transformer 2017 ,		5
190	Detection and analysis of winding and demagnetization faults in PMSM based marine propulsion motors 2017 ,		5
189	A Matrix-Based Nonisolated Three-Phase ACDC Rectifier With Large Step-Down Voltage Gain. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 4796-4811	7.2	18
188	A Single-Stage Matrix-Based Isolated Three-Phase ACDC Converter With Novel Current Commutation. <i>IEEE Transactions on Transportation Electrification</i> , 2017 , 3, 814-830	7.6	24
187	Analysis and Design of SQR-Based High-Voltage LLC Resonant DCDC Converter. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 4466-4481	7.2	12
186	Reduction of Input Current Harmonic Distortions and Balancing of Output Voltages of the Vienna Rectifier Under Supply Voltage Disturbances. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 5802-5812	7.2	34
185	Modeling, Design, and Implementation of a Power Conversion System for Small-Scale High-Altitude Wind Power Generating System. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 283-295	4.3	6
184	A repetitive and Lyapunov function-based control approach for improved steady state and dynamic performance of modular multilevel converters 2017 ,		4
183	Progressing towards DC electrical systems for marine vessels. <i>Energy Procedia</i> , 2017 , 143, 27-32	2.3	5
182	Implementation of Smart LED Lighting and Efficient Data Management System for Buildings. <i>Energy Procedia</i> , 2017 , 143, 173-178	2.3	14
181	Location-aware smart lighting system for individual visual comfort in buildings 2017 ,		1

180	Photovoltaic condition monitoring using real-time adaptive parameter identification 2017 ,		10
179	A luenberger observer-based fault detection and identification scheme for photovoltaic DC-DC converters 2017 ,		8
178	A single-stage isolated bidirectional matrix based AC-DC converter for energy storage 2017 ,		8
177	User Presence Estimation in Multi-Occupancy Rooms Using Plug-Load Meters and PIR Sensors 2017 ,		2
176	A smart lighting system using wireless sensor actuator network 2017 ,		2
175	Fault identification algorithm for MMC based hybrid High Voltage DC transmission system for deep-water oil and gas processing 2017 ,		2
174	Reliable detection of open-circuit faults in cascaded H-bridge multilevel inverter via current residual analysis 2017 ,		5
173	Eccentricity fault analysis in PMSM based marine propulsion motors 2017 ,		5
172	Fault diagnostic techniques for induction machines through finite element analysis 2017 ,		3
171	A review on condition monitoring of GIS 2017 ,		5
170	Condition monitoring of power electronic converters in power plants [A review 2017 ,		9
169	Performance of Electric Springs with multiple variable loads 2016 ,		5
168	Online condition monitoring and diagnosis techniques for dry type transformers incipient fault analysis through finite element modelling 2016 ,		6
167	Subsea power transmission cable modelling: Reactive power compensation and transient response studies 2016 ,		5
166	Design, analysis and implementation of a four-tier centralized control architecture for intelligent operation of grid-connected microgrids 2016 ,		4
165	. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 3228-3241	8.9	40
164	Bio-harmonized control experiments of a carangiform robotic fish underwater vehicle. <i>Advanced Robotics</i> , 2016 , 30, 338-351	1.7	2
163	Hydrodynamics study of a BCF mode bioinspired robotic-fish underwater vehicle using Lighthill's slender body model. <i>Journal of Marine Science and Technology</i> , 2016 , 21, 102-114	1.7	12

162	Condition monitoring system of Ubin Island micro-grid 2016,	1
161	Analysis of active power decoupling in single-phase rectifier using six-switch topology 2016,	2
160	Improvement in efficiency and reliability for diesel- electric propulsion based marine vessels using genetic algorithm 2016,	4
159	Inter-turns fault diagnosis for surface permanent magnet based marine propulsion motors 2016,	1
158	Spatial repetitive controller for minimizing circulating harmonic currents in modular multilevel converters for variable frequency applications 2016,	6
157	A novel matrix based non-isolated buck-boost converter for more electric aircraft 2016,	2
156	Shared energy storage management for renewable energy integration in smart grid 2016,	17
155	Energy management for demand responsive users with shared energy storage system 2016,	4
154	Optimal PV and storage sizing for PV-battery-diesel hybrid systems 2016,	12
153	Personal thermal comfort management in existing office buildings using energy-efficient fans 2016	1
152	An open-switch fault detection method for cascaded H-bridge multilevel inverter fed industrial drives 2016,	5
151	A wireless sensor and actuator network (WSAN) framework for personalized thermal comfort in office buildings 2016,	1
150	An intelligent home appliance control-based on WSN for smart buildings 2016,	14
149	Fault-tolerant cascaded multi-level inverter with improved output quality 2016,	1
148	Placement and sizing optimization for PV-battery-diesel hybrid systems 2016,	8
147	Fuel-efficient low-voltage DC architecture for diesel-electric diving support vessels 2016,	2
146	Design, fabrication and testing of smart lighting system 2016,	6
145	Performance evaluation of electric spring: Effect of load variation on voltage regulation 2016,	1

144	A new control scheme to improve load transient response of single phase PWM rectifier with Auxiliary Current Injection Circuit 2016,		3
143	Power conversion system for high altitude wind power generation with medium voltage AC transmission. <i>Renewable Energy</i> , 2016 , 93, 562-578	8.1	3
142	Fault diagnosis via PV panel-integrated power electronics 2016,		8
141	A novel matrix based isolated three phase AC-DC converter with reduced switching losses 2015,		12
140	Medium voltage multilevel converters for ship electric propulsion drives 2015,		9
139	Tap changing transformer based dual active bridge bi-directional DC-DC converter 2015,		3
138	Condition monitoring and winding fault detection of inductors in LCL filter integrated with active front end rectifier 2015,		2
137	Power conversion system for low power high altitude wind power generating system 2015,		1
136	Electric spring for voltage and power stability and power factor correction 2015,		4
135	Maximum power-point tracking of high altitude wind power generating system using optimal vector control technique 2015,		3
134	A high power density three phase AC-DC converter for more electric aircraft (MEA) 2015,		6
133	Finding answers to biological control methods using modulated patterns: An application to bio-inspired robotic fish 2015,		5
132	A reinforcement learning algorithm for Agent-based Computational Economics (ACE) model of electricity markets 2015,		5
131	. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 1888-1900	8.9	42
130	FailSafe: A generalized methodology for converter fault detection, identification, and remediation in nanogrids 2015,		3
129	Harmonic load modeling for smart microgrids 2015,		1
128	Outlier detection and data filtering for wireless sensor and actuator networks in building environment 2015,		2
127	Thermal prognosis of dry-type transformer: Simulation study on load and ambient temperature impacts 2015,		2

126	A nine-switch interleaved three-phase AC-DC single stage isolated converter implemented with SiC MOSFETs 2015,		2
125	A new phase shedding and phase adding control scheme for interleaved DAB converter operating in IPOP configuration 2015,		2
124	Strategies for thermal comfort improvement and energy savings in existing office buildings using occupant feedback 2015,		3
123	Brain-Map Based Carangiform Swimming Behaviour Modeling and Control in a Robotic Fish Underwater Vehicle. <i>International Journal of Advanced Robotic Systems, 2015, 12, 52</i>	1.4	3
122	Feasibility analysis of auxiliary winding for condition monitoring of wound field brushless synchronous generators 2015,		2
121	Design of a sliding mode observer for sensorless control of SPMSM operating at medium and high speeds 2015,		4
120	2015,		5
119	A visually guided spherical underwater robot 2015,		4
118	Fuel efficiency improvement by optimal scheduling of diesel generators using PSO in offshore support vessel with DC power system architecture 2015,		6
117	Vibration signature analysis of stator winding fault diagnosis in brushless synchronous generators 2015,		3
116	Generation and Transmission of Electrical Energy in High-Altitude Wind Power Generating System. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 459-470</i>	5.6	8
115	Real-Time Implementation of a Harmony Search Algorithm-Based Clustering Protocol for Energy-Efficient Wireless Sensor Networks. <i>IEEE Transactions on Industrial Informatics, 2014, 10, 774-783</i> ^{11.9}		135
114	Improved Brushless Synchronous Generator model to study the turn-to-turn short circuit fault 2014		2
113	Modelling, design and control of grid connected converter for high altitude wind power application 2014,		2
112	Optimal Thrust Allocation for Semisubmersible Oil Rig Platforms Using Improved Harmony Search Algorithm. <i>IEEE Journal of Oceanic Engineering, 2014, 39, 526-539</i>	3.3	16
111	2014,		6
110	Modular Interleaved Soft-Switching DC-DC Converter for High-Altitude Wind Energy Application. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 727-738</i>	5.6	12
109	Novel switching scheme for matrix based isolated three phase AC to DC conversion 2014,		1

108	STUDY OF RESONANCE-BASED WIRELESS ELECTRIC VEHICLE CHARGING SYSTEM IN CLOSE PROXIMITY TO METALLIC OBJECTS. <i>Progress in Electromagnetics Research M</i> , 2014 , 37, 183-189	0.6	1
107	A novel high output voltage DC-DC LLC resonant converter with symmetric voltage quadrupler rectifier for RF communications 2014 ,		1
106	Inverse dynamics control of a bio-inspired robotic-fish underwater vehicle propulsion based on Lighthill slender body theory 2014 ,		7
105	Optimal appliance scheduling in building operating systems for cost-effective energy management 2014 ,		3
104	Kinematic parameter based behaviour modelling and control of a bio-inspired robotic fish 2014 ,		2
103	Purely inductive ripple power storage for improved lifetime in solar photovoltaic micro-inverter topology 2014 ,		1
102	Neutral current mitigation using controlled electric springs connected to microgrids within built environment 2014 ,		19
101	Automatic frequency tuning wireless charging system for enhancement of efficiency. <i>Electronics Letters</i> , 2014 , 50, 1868-1870	1.1	16
100	Load-side demand management in buildings using controlled electric springs 2014 ,		18
99	High-frequency soft-switching LCC resonant current-fed DC/DC converter with high voltage gain for DC microgrid application 2014 ,		4
98	Cloning and functional characterization of a vacuolar Na ⁺ /H ⁺ antiporter gene from mungbean (VrNHX1) and its ectopic expression enhanced salt tolerance in <i>Arabidopsis thaliana</i> . <i>PLoS ONE</i> , 2014 , 9, e106678	3.7	32
97	Biomimicking a Brain-Map Based BCF Mode Carangiform Swimming Behaviour in a Robotic-Fish Underwater Vehicle. <i>Mechanisms and Machine Science</i> , 2014 , 311-319	0.3	
96	Dynamic modeling of variable ballast tank for spherical underwater robot 2013 ,		5
95	Realisation of a cluster-based protocol using fuzzy C-means algorithm for wireless sensor networks. <i>IET Wireless Sensor Systems</i> , 2013 , 3, 163-171	1.6	39
94	Energy-efficient optimal thrust allocation for spherical underwater robot 2013 ,		1
93	Overview of high altitude wind energy harvesting system 2013 ,		9
92	Finding an operating region for a bio-inspired robotic fish underwater vehicle in the Lighthill framework 2013 ,		2
91	Effect of design parameters on resonant wireless energy transfer system. <i>Journal of Electromagnetic Waves and Applications</i> , 2013 , 27, 288-298	1.3	3

90	Comparison of ZVS based isolated DC-DC converters for high altitude wind power application 2013 ,		2
89	Optimization of Distribution Network Incorporating Distributed Generators: An Integrated Approach. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 2421-2432	7	99
88	Fault detection and diagnosis in synchronous motors using hidden Markov model-based semi-nonparametric approach. <i>Engineering Applications of Artificial Intelligence</i> , 2013 , 26, 1919-1929	7.2	20
87	Highly efficient wireless energy harvesting system using metamaterial based compact CP antenna 2013 ,		14
86	Improved phase detection technique for grid synchronization of DG systems during grid abnormalities 2013 ,		2
85	Optimal Power Flow Solution Using Self-Evolving Brainstorming Inclusive Teaching-Learning-Based Algorithm. <i>Lecture Notes in Computer Science</i> , 2013 , 338-345	0.9	20
84	A study on torque modelling of switched reluctance motors 2013 ,		3
83	Lyapunov Function-Based Current Controller to Control Active and Reactive Power Flow From a Renewable Energy Source to a Generalized Three-Phase Microgrid System. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 799-813	8.9	77
82	Application of Four-Switch-Based Three-Phase Grid-Connected Inverter to Connect Renewable Energy Source to a Generalized Unbalanced Microgrid System. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 1204-1215	8.9	71
81	Piezoelectric device wirelessly driven by electric field. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2013 , 42, 171-178	0.4	1
80	Robust Protective Relay Setting and Coordination Using Modified Differential Evolution Considering Different Network Topologies. <i>Lecture Notes in Computer Science</i> , 2013 , 107-118	0.9	
79	2013 ,		9
78	Modular interleaved ZVS current fed isolated DC-DC converter for harvesting high altitude wind power 2013 ,		5
77	Harnessing high altitude wind power using light gas filled blimp 2013 ,		6
76	A Lyapunov Function-Based Robust Direct Torque Controller for a Switched Reluctance Motor Drive System. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 555-564	7.2	94
75	SIW-based slot array antenna and power management circuit for wireless energy harvesting applications 2012 ,		2
74	Application of artificial intelligence techniques to the study of machine signatures 2012 ,		5
73	Kinematics study and implementation of a biomimetic robotic-fish underwater vehicle based on Lighthill slender body model 2012 ,		5

72	Optimization of distribution network incorporating microgrid using vaccine-AIS 2012 ,		4
71	A Plug and Play Operational Approach for Implementation of an Autonomous-Micro-Grid System. <i>IEEE Transactions on Industrial Informatics</i> , 2012 , 8, 615-629	11.9	40
70	Optimal data aggregation tree in wireless sensor networks based on intelligent water drops algorithm. <i>IET Wireless Sensor Systems</i> , 2012 , 2, 282	1.6	34
69	A novel four-leg three-phase inverter control strategy to reduce the data center thermal losses: Elimination of neutral current 2012 ,		4
68	A novel multi-objective directed bee colony optimization algorithm for multi-objective emission constrained economic power dispatch. <i>International Journal of Electrical Power and Energy Systems</i> , 2012 , 43, 1241-1250	5.1	34
67	Energy-Efficient Thrust Allocation for Semi-Submersible Oil Rig Platforms Using Improved Harmony Search Algorithm. <i>IEEE Transactions on Industrial Informatics</i> , 2012 , 8, 913-924	11.9	8
66	Multi-objective parametric optimization of powder mixed electro-discharge machining using response surface methodology and non-dominated sorting genetic algorithm. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2012 , 37, 223-240	1	44
65	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 ,		13
64	Optimized Wind Energy Harvesting System Using Resistance Emulator and Active Rectifier for Wireless Sensor Nodes. <i>IEEE Transactions on Power Electronics</i> , 2011 , 26, 38-50	7.2	133
63	A compact resonance-based wireless energy transfer system for implanted electronic devices 2011 ,		2
62	A FBD theory based grid frequency independent current reference generation method for a three phase inverter interfacing renewable energy sources to generalized micro-grid 2011 ,		1
61	Derivation of instantaneous current references for three phase PV inverter connected to grid with active and reactive power flow control 2011 ,		10
60	Optimization of economic load dispatch for a microgrid using evolutionary computation 2011 ,		17
59	Energy Harvesting From Hybrid Indoor Ambient Light and Thermal Energy Sources for Enhanced Performance of Wireless Sensor Nodes. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 4424-4435	8.9	262
58	Self-Autonomous Wireless Sensor Nodes With Wind Energy Harvesting for Remote Sensing of Wind-Driven Wildfire Spread. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2011 , 60, 1367-1377	5.2	87
57	Resonance-Based Wireless Energizing of Piezoelectric Components. <i>IEEE Magnetics Letters</i> , 2011 , 2, 6000204-6000204		
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