

Nasrudin Abd Rahim

List of Publications by Year in descending order

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457
papers

24,253
citations

5430

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460
all docs

460
docs citations

460
times ranked

21208
citing authors

#	ARTICLE	IF	CITATIONS
1	Study on self-cleaning performance and hydrophobicity of TiO ₂ /silane coatings. Pigment and Resin Technology, 2024, 53, 1-9.	0.5	10
2	Three-Level Hybrid Boost Converter with Output Voltage Regulation and Capacitor Balancing. IETE Journal of Research, 2023, 69, 1852-1860.	1.8	0
3	Global Prospects, Advance Technologies and Policies of Energy-Saving and Sustainable Building Systems: A Review. Sustainability, 2022, 14, 1316.	1.6	19
4	Techno-economic Analysis of Wind Turbines Powering Rural of Malaysia. International Journal of Renewable Energy Development, 2022, 11, 413-421.	1.2	1
5	Zinc oxide/graphene nanocomposite as efficient photoelectrode in dye-sensitized solar cells: Recent advances and future outlook. International Journal of Energy Research, 2022, 46, 7082-7100.	2.2	10
6	Application of transparent self-cleaning coating for photovoltaic panel: a review. Current Opinion in Chemical Engineering, 2022, 36, 100801.	3.8	36
7	Multi-Functional PV Inverter With Low Voltage Ride-Through and Constant Power Output. IEEE Access, 2022, 10, 29567-29588.	2.6	9
8	Improved cycling stability of V ₂ O ₅ modified spinel LiMn ₂ O ₄ cathode at high cut-off voltage for lithium-ion batteries. International Journal of Applied Ceramic Technology, 2022, 19, 2036-2052.	1.1	11
9	Thermal conductivity, reliability, and stability assessment of phase change material (PCM) doped with functionalized multi-wall carbon nanotubes (FMWCNTs). Journal of Energy Storage, 2022, 50, 104676.	3.9	40
10	Recent progresses and challenges in cooling techniques of concentrated photovoltaic thermal system: A review with special treatment on phase change materials (PCMs) based cooling. Solar Energy Materials and Solar Cells, 2022, 241, 111739.	3.0	27
11	Estimation of Greenhouse Gas Emissions of Petrol, Biodiesel and Battery Electric Vehicles in Malaysia Based on Life Cycle Approach. Sustainability, 2022, 14, 5783.	1.6	6
12	A systematic review on current research and developments on coreless axial flux permanent magnet machines. IET Electric Power Applications, 2022, 16, 1095-1116.	1.1	10
13	Global Challenges of Current Building-Integrated Solar Water Heating Technologies and Its Prospects: A Comprehensive Review. Energies, 2022, 15, 5125.	1.6	12
14	Global Challenges and Prospects of Photovoltaic Materials Disposal and Recycling: A Comprehensive Review. Sustainability, 2022, 14, 8567.	1.6	18
15	High Step-Up Flyback with Low-Overshoot Voltage Stress on Secondary GaN Rectifier. Energies, 2022, 15, 5092.	1.6	1
16	Grid-connected photovoltaic inverters with low-voltage ride through for a residential-scale system: A review. International Transactions on Electrical Energy Systems, 2021, 31, e12630.	1.2	10
17	Analysis of energy consumption and potential energy savings of an institutional building in Malaysia. AEJ - Alexandria Engineering Journal, 2021, 60, 805-820.	3.4	56
18	Effect of WS ₂ nano-sheets on the catalytic activity of polyaniline nano-rods based counter electrode for dye sensitized solar cell. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 126, 114466.	1.3	13

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19	Feasibility Analysis of Solar Power Generation System for Office Building in Academic Institution. IOP Conference Series: Materials Science and Engineering, 2021, 1127, 012039.	0.3	3
20	Design of a small scale fluidized-bed incinerator for MSW with ability to utilize HHO as auxiliary fuel. IOP Conference Series: Materials Science and Engineering, 2021, 1127, 012040.	0.3	3
21	PV integrated on-demand water electrolysis system for HHO generation and its application as primary fuel in combustion. IOP Conference Series: Materials Science and Engineering, 2021, 1127, 012022.	0.3	0
22	Effects of flux derating methods on torque production of fault-tolerant polyphase induction drives. IET Electric Power Applications, 2021, 15, 616-628.	1.1	14
23	Current Trajectory-Based Fault Detection and Fault Tolerant Control for Three-phase Induction Drives. , 2021, , .		1
24	Assessment of electric vehicle charging infrastructure and its impact on the electric grid: A review. International Journal of Green Energy, 2021, 18, 657-686.	2.1	47
25	Indoor and Outdoor Performance Study of Metallic Zinc Particles in Black Paint to Improve Solar Absorption for Solar Still Application. Coatings, 2021, 11, 536.	1.2	8
26	An efficient platform based on strontium titanate nanocubes interleaved polypyrrole nanohybrid as counter electrode for dye-sensitized solar cell. Journal of Alloys and Compounds, 2021, 860, 158228.	2.8	21
27	Usage of on-demand oxyhydrogen gas as clean/renewable fuel for combustion applications: a review. International Journal of Green Energy, 2021, 18, 1405-1429.	2.1	12
28	Hydrogen energy vision 2060: Hydrogen as energy Carrier in Malaysian primary energy mix " Developing P2G case. Energy Strategy Reviews, 2021, 35, 100632.	3.3	34
29	Capacitor Voltage Balancing with Online Controller Performance-Based Tuning for a Switch-Sharing-Based Multilevel Inverter. Applied Sciences (Switzerland), 2021, 11, 4428.	1.3	4
30	2-D Mxene flakes as potential replacement for both TCO and Pt layers for Dye-Sensitized Solar cell. Ceramics International, 2021, 47, 27942-27947.	2.3	28
31	Introduction to solar energy and its conversion into electrical energy by using dye-sensitized solar cells. , 2021, , 139-178.		3
32	Spectral response and quantum efficiency evaluation of solar cells: a review. , 2021, , 525-566.		3
33	Investigation on thermophysical properties of metallic oxide nanoparticle dispersed in fatty acid. Materials Today: Proceedings, 2021, 47, 2864-2868.	0.9	6
34	A Predictive Approach to Optimize a HHO Generator Coupled with Solar PV as a Standalone System. Sustainability, 2021, 13, 12110.	1.6	14
35	A Grid-tied PV Inverter with Sag-severity- independent Low-voltage Ride Through, Reactive Power Support, and Islanding Protection. Journal of Modern Power Systems and Clean Energy, 2021, 9, 1300-1311.	3.3	17
36	Power Controller Effects for Mitigating Harmonics in a Three-Phase Grid-Connected Inverter. , 2021, , .		0

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37	Parallel Inductor Multilevel Current Source Inverter for Input Ripple Current Reduction in PEM Fuel Cell Applications. IETE Journal of Research, 2020, 66, 505-517.	1.8	0
38	Facile synthesise of transparent hydrophobic nano- CaCO ₃ based coatings for self-cleaning and anti-fogging. Materials Chemistry and Physics, 2020, 239, 121913.	2.0	35
39	Energy demand. , 2020, , 41-87.		9
40	Energy demand forecasting. , 2020, , 105-123.		17
41	A Novel nanodiamond/Zinc nanocomposite as potential counter electrode for flexible dye sensitized solar cell. Solar Energy, 2020, 197, 1-5.	2.9	25
42	Electron transport properties analysis of titanium dioxide dye-sensitized solar cells (TiO ₂ -DSSCs) based natural dyes using electrochemical impedance spectroscopy concept: A review. Solar Energy, 2020, 207, 1088-1121.	2.9	110
43	Synthesis of nano-TiO ₂ coating systems for solar cell. Pigment and Resin Technology, 2020, 49, 26-32.	0.5	3
44	Chemical, optical and photovoltaic properties of TiO ₂ /reduced graphene oxide photoanodes sensitized with Roselle and N719 dyes for dye-sensitized solar cell application. Pigment and Resin Technology, 2020, 49, 315-324.	0.5	6
45	A novel polyaniline (PANI)/ paraffin wax nano composite phase change material: Superior transition heat storage capacity, thermal conductivity and thermal reliability. Solar Energy, 2020, 204, 448-458.	2.9	95
46	A techno-environmental assessment of hybrid photovoltaic-thermal based combined heat and power system on a residential home. Renewable Energy, 2020, 156, 1186-1202.	4.3	12
47	Self-cleaning assisted photovoltaic system with thermal energy storage: Design and performance evaluation. Solar Energy, 2020, 206, 487-498.	2.9	14
48	The Effects of Rural Electrification on Quality of Life: A Southeast Asian Perspective. Energies, 2020, 13, 2410.	1.6	8
49	Prospects, progress, challenges and policies for clean power generation from biomass resources. Clean Technologies and Environmental Policy, 2020, 22, 1229-1253.	2.1	39
50	Long-term thermophysical behavior of paraffin wax and paraffin wax/polyaniline (PANI) composite phase change materials. Journal of Energy Storage, 2020, 31, 101568.	3.9	44
51	A fully coreless Multi-Stator Multi-Rotor (MSMR) AFPM generator with combination of conventional and Halbach magnet arrays. AEJ - Alexandria Engineering Journal, 2020, 59, 589-600.	3.4	13
52	Charge coordination and battery lifecycle analysis of electric vehicles with V2G implementation. Electric Power Systems Research, 2020, 184, 106307.	2.1	56
53	Design and analysis of three-level hybrid boost converter based on T-type inverter for solar photovoltaic system. IET Power Electronics, 2020, 13, 1848-1857.	1.5	5
54	Experimental Investigation the Effect of Cleaning on the Optical and Mechanical Properties of PV Module Glasses. Materials Science Forum, 2020, 990, 291-295.	0.3	1

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55	Grid-connected photovoltaic system employing a single-phase T-type cascaded H-bridge inverter. <i>Solar Energy</i> , 2020, 199, 645-656.	2.9	26
56	Analysis of Photovoltaic String Failure and Health Monitoring with Module Fault Identification. <i>Energies</i> , 2020, 13, 100.	1.6	4
57	Comparative Study of Discrete PI and PR Controls for Single-Phase UPS Inverter. <i>IEEE Access</i> , 2020, 8, 45584-45595.	2.6	72
58	Pt-TCO free sn-ag-cu ternary alloy as cost effective counter electrode layer for dye sensitized solar cell. <i>Optik</i> , 2020, 206, 164317.	1.4	8
59	Multi-channel photovoltaic current-voltage ($I-V$) curve tracer employing adaptive-sampling rate method. <i>IET Science, Measurement and Technology</i> , 2020, 14, 969-976.	0.9	1
60	Performance Comparison of Fault-Tolerant Three-Phase Induction Motor Drives Considering Current and Voltage Limits. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 2639-2648.	5.2	70
61	Numerical investigation on the effect of different parameters in enhancing heat transfer performance of photovoltaic thermal systems. <i>Renewable Energy</i> , 2019, 132, 284-295.	4.3	59
62	Sensorless second-order switching surface for a three-level boost converter. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2019, 27, 11-23.	0.9	3
63	Effect of nanofluid properties and mass-flow rate on heat transfer of parabolic-trough concentrating solar system. <i>Journal of Naval Architecture and Marine Engineering</i> , 2019, 16, 33-44.	0.9	2
64	A comprehensive review of reactive power control strategies for three phase grid connected photovoltaic systems with low voltage ride through capability. <i>Journal of Renewable and Sustainable Energy</i> , 2019, 11, .	0.8	13
65	Forecasting Solar Power Using Hybrid Firefly and Particle Swarm Optimization (HFPSO) for Optimizing the Parameters in a Wavelet Transform-Adaptive Neuro Fuzzy Inference System (WT-ANFIS). <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3214.	1.3	16
66	Towards Sustainable Energy: A Systematic Review of Renewable Energy Sources, Technologies, and Public Opinions. <i>IEEE Access</i> , 2019, 7, 63837-63851.	2.6	560
67	Global advancement of solar thermal energy technologies for industrial process heat and its future prospects: A review. <i>Energy Conversion and Management</i> , 2019, 195, 885-908.	4.4	278
68	Self-cleaning and weather resistance of nano-SnO ₂ /modified silicone oil coating for photovoltaic (PV) glass applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 12584-12596.	1.1	7
69	Numerical and experimental investigation of the effect of operating conditions on performance of PVT and PVT-PCM. <i>Renewable Energy</i> , 2019, 143, 827-841.	4.3	131
70	Application of ANOVA method to study solar energy for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 14571-14579.	3.8	24
71	Effect of nanofluids on heat transfer and cooling system of the photovoltaic/thermal performance. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 29, 1920-1946.	1.6	46
72	Highly sensitive capacitive cell based on a novel CuTsPc-TiO ₂ nanocomposite electrolytic solution for low-temperature sensing applications. <i>Sensors and Actuators A: Physical</i> , 2019, 289, 94-99.	2.0	5

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73	Sizing and applications of battery energy storage technologies in smart grid system: A review. Journal of Renewable and Sustainable Energy, 2019, 11, .	0.8	75
74	Optimal sizing and energy scheduling of isolated microgrid considering the battery lifetime degradation. PLoS ONE, 2019, 14, e0211642.	1.1	78
75	Concentrated photovoltaic thermal systems: A component-by-component view on the developments in the design, heat transfer medium and applications. Energy Conversion and Management, 2019, 186, 15-41.	4.4	86
76	Transparent self-cleaning coating of modified polydimethylsiloxane (PDMS) for real outdoor application. Progress in Organic Coatings, 2019, 131, 232-239.	1.9	45
77	Feedforward Fault-Tolerant Control for Three-Phase Induction Motor Drives with Single Open Circuit Fault. , 2019, , .		2
78	Numerical and outdoor real time experimental investigation of performance of PCM based PVT system. Solar Energy, 2019, 179, 135-150.	2.9	137
79	Photovoltaic Flyback Microinverter With Tertiary Winding Current Sensing. IEEE Transactions on Power Electronics, 2019, 34, 7588-7602.	5.4	18
80	An application of TPB constructs on energy-saving behavioural intention among university office building occupants: a pilot study in Malaysian tropical climate. Journal of Housing and the Built Environment, 2019, 34, 533-569.	0.9	17
81	Thermal performance analysis of parallel serpentine flow based photovoltaic/thermal (PV/T) system under composite climate of Malaysia. Applied Thermal Engineering, 2019, 153, 861-871.	3.0	92
82	Two side serpentine flow based photovoltaic-thermal-phase change materials (PVT-PCM) system: Energy, exergy and economic analysis. Renewable Energy, 2019, 136, 1320-1336.	4.3	166
83	Fault-Tolerant Field-Oriented Control of Three-Phase Induction Motor Based on Unified Feedforward Method. IEEE Transactions on Power Electronics, 2019, 34, 7172-7183.	5.4	64
84	Comparative analysis of high voltage gain DC-DC converter topologies for photovoltaic systems. Renewable Energy, 2019, 136, 1147-1163.	4.3	115
85	Design, Simulation and Implementation of an Isolated Switched-Mode Power Supply. Lecture Notes in Electrical Engineering, 2019, , 350-356.	0.3	0
86	Fault-Tolerant Symmetrical Six-phase Induction Motor Drive Based on Feed-forward Voltage Compensation. , 2019, , .		8
87	Heat transfer and pressure drop characteristics of a plate heat exchanger using water based Al ₂ O ₃ nanofluid for 30° and 60° chevron angles. Heat and Mass Transfer, 2018, 54, 2907-2916.	1.2	15
88	Investigation of the potential induced degradation of on-site aged polycrystalline PV modules operating in Malaysia. Measurement: Journal of the International Measurement Confederation, 2018, 119, 283-294.	2.5	29
89	Advances in approaches and methods for self-cleaning of solar photovoltaic panels. Solar Energy, 2018, 162, 597-619.	2.9	172
90	Control of switch-sharing-based multilevel inverter suitable for photovoltaic applications. Journal of the Franklin Institute, 2018, 355, 1018-1039.	1.9	2

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91	Water/MWCNT nanofluid based cooling system of PVT: Experimental and numerical research. Renewable Energy, 2018, 121, 286-300.	4.3	193
92	A comparative investigation on in-situ and laboratory standard test of the potential induced degradation of crystalline silicon photovoltaic modules. Renewable Energy, 2018, 127, 102-113.	4.3	25
93	Improved electron density through hetero-junction binary sensitized TiO ₂ / CdTe / D719 system as photoanode for dye sensitized solar cell. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 101, 139-143.	1.3	16
94	Improved electron transfer of TiO ₂ based dye sensitized solar cells using Ge as sintering aid. Optik, 2018, 157, 134-140.	1.4	22
95	Novel approaches and recent developments on potential applications of phase change materials in solar energy. Renewable and Sustainable Energy Reviews, 2018, 82, 281-323.	8.2	321
96	Recent progress and development on power DC-DC converter topology, control, design and applications: A review. Renewable and Sustainable Energy Reviews, 2018, 81, 205-230.	8.2	184
97	Effect of high irradiation and cooling on power, energy and performance of a PVT system. Renewable Energy, 2018, 116, 552-569.	4.3	79
98	Effect of high irradiation on photovoltaic power and energy. International Journal of Energy Research, 2018, 42, 1115-1131.	2.2	53
99	Analysis of Current Harmonics Compensation and the Effect of Frequency Variation for Single-Phase Stand-Alone PV Inverters using PR Controller. IETE Journal of Research, 2018, 64, 463-470.	1.8	6
100	Solar photovoltaic generation forecasting methods: A review. Energy Conversion and Management, 2018, 156, 459-497.	4.4	582
101	Effect of Nanodiamonds on the Optoelectronic Properties of TiO ₂ Photoanode in Dye-Sensitized Solar Cell. Arabian Journal for Science and Engineering, 2018, 43, 3515-3519.	1.7	16
102	Global modern monitoring systems for PV based power generation: A review. Renewable and Sustainable Energy Reviews, 2018, 82, 4142-4158.	8.2	65
103	Preparation of Fuel Pellets and Extraction of Natural Dyes from Falling Leaves to be used as Sensitizer in Dye Sensitized Solar Cell. , 2018, , .		1
104	Application of Bisection Search Method for Maximum Power Extraction. , 2018, , .		1
105	Design and Analysis of a Multilevel Converter for Micro Distributed Generation System. , 2018, , .		0
106	High voltage-gain full-bridge cascaded dc-dc converter for photovoltaic application. PLoS ONE, 2018, 13, e0206691.	1.1	11
107	Superhydrophilic Smart Coating for Self-Cleaning Application on Glass Substrate. Journal of Nanomaterials, 2018, 2018, 1-10.	1.5	39
108	Effect of Germanium on the TiO ₂ Photoanode for Dye Sensitized Solar Cell Applications. A Potential Sintering Aid. IOP Conference Series: Materials Science and Engineering, 2018, 358, 012015.	0.3	3

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109	Dynamic Economic Dispatch of Isolated Microgrid with Energy Storage Using MIQP. , 2018, , .		7
110	Enhanced Current Density Through Addition of CdTe in TiO ₂ Based Photoanode for DSSCs. , 2018, , .		1
111	Techno-economic Analysis of Evacuated Tube Solar Water Heater using F-chart Method. IOP Conference Series: Materials Science and Engineering, 2018, 358, 012016.	0.3	8
112	A comprehensive review on counter electrodes for dye sensitized solar cells: A special focus on Pt-TCO free counter electrodes. Solar Energy, 2018, 174, 1097-1125.	2.9	116
113	Design and Analysis of Photovoltaic (PV) Power Plant at Different Locations in Malaysia. IOP Conference Series: Materials Science and Engineering, 2018, 358, 012019.	0.3	1
114	Photovoltaic Integrated Shunt Active Power Filter with Simpler ADALINE Algorithm for Current Harmonic Extraction. Energies, 2018, 11, 1152.	1.6	17
115	Transformerless high gain boost and buck-boost DC-DC converters based on extendable switched capacitor (SC) cell for stand-alone photovoltaic system. Solar Energy, 2018, 171, 212-222.	2.9	48
116	Effect of Different Factors on the Leakage Current Behavior of Silicon Photovoltaic Modules at High Voltage Stress. IEEE Journal of Photovoltaics, 2018, 8, 1259-1265.	1.5	15
117	Application of modified classical numerical methods for DMPPT on Buck and Boost converters. Solar Energy, 2018, 173, 437-448.	2.9	3
118	Chemical sintering of TiO ₂ based photoanode for efficient dye sensitized solar cells using Zn nanoparticles. Ceramics International, 2018, 44, 18444-18449.	2.3	28
119	Energy and exergy analysis of the PVT system: Effect of nanofluid flow rate. Solar Energy, 2018, 169, 217-230.	2.9	150
120	Improving water quality index prediction in Perak River basin Malaysia through a combination of multiple neural networks. International Journal of River Basin Management, 2017, 15, 79-87.	1.5	37
121	A Three-Dimensional Comprehensive Numerical Investigation of Different Operating Parameters on the Performance of a Photovoltaic Thermal System With Pancake Collector. Journal of Solar Energy Engineering, Transactions of the ASME, 2017, 139, .	1.1	42
122	Towards the plasmonic effect of Zn nanoparticles on TiO ₂ monolayer photoanode for dye sensitized solar cell applications. Materials Letters, 2017, 195, 62-65.	1.3	27
123	Long-term electrical energy consumption formulating and forecasting via optimized gene expression programming. Energy, 2017, 126, 144-164.	4.5	128
124	Numerical and experimental investigation on the performance of a photovoltaic thermal collector with parallel plate flow channel under different operating conditions in Malaysia. Solar Energy, 2017, 144, 517-528.	2.9	141
125	Calibration of an electronic nose for poultry farm. AIP Conference Proceedings, 2017, , .	0.3	1
126	A Unified Analysis of the Fault Tolerance Capability in Six-Phase Induction Motor Drives. IEEE Transactions on Power Electronics, 2017, 32, 7824-7836.	5.4	201

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127	Modulation Technique for Single-Phase Transformerless Photovoltaic Inverters With Reactive Power Capability. IEEE Transactions on Industrial Electronics, 2017, 64, 6989-6999.	5.2	83
128	Advancements in the development of TiO ₂ photoanodes and its fabrication methods for dye sensitized solar cell (DSSC) applications. A review. Renewable and Sustainable Energy Reviews, 2017, 77, 89-108.	8.2	352
129	Rain-fall optimization algorithm: A population based algorithm for solving constrained optimization problems. Journal of Computational Science, 2017, 19, 31-42.	1.5	110
130	Effects of operational conditions on the energy efficiency of photovoltaic modules operating in Malaysia. Journal of Cleaner Production, 2017, 143, 912-924.	4.6	102
131	Conventional and modified MPPT techniques with direct control and dual scaled adaptive step-size. Solar Energy, 2017, 157, 1017-1031.	2.9	34
132	The Effect of Dynamic Weather Conditions on Three Types of PV Cell Technologies – A Comparative Analysis. Energy Procedia, 2017, 117, 275-282.	1.8	7
133	Classification of human breathing task based on electromyography signal of respiratory muscles. , 2017, , .		3
134	Optimised inverter by switch sharing: a control solution for photovoltaic applications. IET Power Electronics, 2017, 10, 1078-1086.	1.5	3
135	Analysis performance of proton exchange membrane fuel cell (PEMFC). IOP Conference Series: Materials Science and Engineering, 2017, 210, 012052.	0.3	5
136	Strategy to enhance the low-voltage ride-through in photovoltaic system during multi-mode transition. Solar Energy, 2017, 153, 744-754.	2.9	23
137	Techno-economic analysis and environmental impact assessment of a 10MW biomass-based power plant in Malaysia. Journal of Cleaner Production, 2017, 141, 502-513.	4.6	81
138	Assessment of effect of haze on photovoltaic systems in Malaysia due to open burning in Sumatra. IET Renewable Power Generation, 2017, 11, 299-304.	1.7	9
139	Interleaved boost converter for fuel cell application with constant voltage technique. , 2017, , .		6
140	Connected car: Engines diagnostic via Internet of Things (IoT). Journal of Physics: Conference Series, 2017, 908, 012079.	0.3	13
141	Development of PEMFC emulator using electrical equivalent circuit. , 2017, , .		1
142	Capacitor voltage balancing in switch-sharing-based multilevel inverter with PI controller. , 2017, , .		2
143	Significant insights into the operation of DC-link voltage control of a shunt active power filter using different control algorithms: a comparative study. Turkish Journal of Electrical Engineering and Computer Sciences, 2017, 25, 2033-2043.	0.9	7
144	PENURAS KUASA AKTIF PIRAU SATU FASA MENGGUNAKAN STRATEGI KAWALAN RINGKAS. Jurnal Teknologi (Sciences and Engineering), 2017, 79, .	0.3	1

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145	The Hybrid Solar Power/Wind System for Energy Production, Observation, Application, and Simulation. , 2017, , 337-368.		1
146	Switching Functions Model of a Three-phase Voltage Source Converter (VSC). Journal of Power Electronics, 2017, 17, 422-431.	0.9	2
147	Control Methods and Objectives for Electronically Coupled Distributed Energy Resources in Microgrids: A Review. IEEE Systems Journal, 2016, 10, 446-458.	2.9	143
148	An 11-switch multilevel inverter with a modified space vector modulation. Turkish Journal of Electrical Engineering and Computer Sciences, 2016, 24, 171-183.	0.9	2
149	Fundamental Active Current Adaptive Linear Neural Networks for Photovoltaic Shunt Active Power Filters. Energies, 2016, 9, 397.	1.6	16
150	Adaptive Hybrid Fuzzy-Proportional Plus Crisp-Integral Current Control Algorithm for Shunt Active Power Filter Operation. Energies, 2016, 9, 737.	1.6	6
151	Human breathing assessment using Electromyography signal of respiratory muscles. , 2016, , .		3
152	Solar cell parameters identification using hybrid Nelder-Mead and modified particle swarm optimization. Journal of Renewable and Sustainable Energy, 2016, 8, .	0.8	73
153	Effects of large scale photovoltaic source on low voltage network under ambient disturbances and different distribution line distance. , 2016, , .		0
154	Using data-driven approach for wind power prediction: A comparative study. Energy Conversion and Management, 2016, 118, 193-203.	4.4	95
155	Study of the MPP tracking algorithms: Focusing the numerical method techniques. Renewable and Sustainable Energy Reviews, 2016, 62, 350-371.	8.2	53
156	Backtracking search algorithm for solving economic dispatch problems with valve-point effects and multiple fuel options. Energy, 2016, 116, 637-649.	4.5	164
157	Coordinated control of smart microgrid during and after islanding operation to prevent under frequency load shedding using energy storage system. Energy Conversion and Management, 2016, 127, 623-646.	4.4	44
158	Global advancement of cooling technologies for PV systems: A review. Solar Energy, 2016, 137, 25-45.	2.9	259
159	Recent progresses and achievements in photovoltaic-phase change material technology: A review with special treatment on photovoltaic thermal-phase change material systems. Energy Conversion and Management, 2016, 126, 177-204.	4.4	139
160	Parallel inductor multilevel current source inverter with energy recovery scheme for inductor currents balancing. IET Power Electronics, 2016, 9, 2298-2304.	1.5	8
161	Long-term electric energy consumption forecasting via artificial cooperative search algorithm. Energy, 2016, 115, 857-871.	4.5	134
162	A comparative study on D converter based on control schemes of maximum extracted power. , 2016, , .		2

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163	Performance analysis of PR current controller for single-phase inverters. , 2016, , .		18
164	Photovoltaic Inverter Topologies for Grid Integration Applications. Green Energy and Technology, 2016, , 13-42.	0.4	8
165	Energy and exergy analysis of a flat plate solar collector using different sizes of aluminium oxide based nanofluid. Journal of Cleaner Production, 2016, 133, 518-530.	4.6	134
166	Development of an enhanced parametric model for wind turbine power curve. Applied Energy, 2016, 177, 544-552.	5.1	96
167	Current control techniques for three-phase grid interconnection of renewable power generation systems: A review. Solar Energy, 2016, 135, 29-42.	2.9	60
168	Performance Evaluation of Two Photovoltaic Cell Technologies in Fluctuating Weather Conditions, Using EN50530 Test Procedure. Journal of Solar Energy Engineering, Transactions of the ASME, 2016, 138, .	1.1	1
169	Recent advances in solar photovoltaic systems for emerging trends and advanced applications. Renewable and Sustainable Energy Reviews, 2016, 53, 859-884.	8.2	239
170	A comprehensive review of synchronization methods for grid-connected converters of renewable energy source. Renewable and Sustainable Energy Reviews, 2016, 59, 1471-1481.	8.2	123
171	Role of smart grid in renewable energy: An overview. Renewable and Sustainable Energy Reviews, 2016, 60, 1168-1184.	8.2	265
172	DC-link capacitor voltage control for single-phase shunt active power filter with step size error cancellation in self-charging algorithm. IET Power Electronics, 2016, 9, 323-335.	1.5	51
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