

Nallapaneni Manoj Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

142
papers

4,115
citations

117571

34
h-index

149623

56
g-index

145
all docs

145
docs citations

145
times ranked

2844
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comprehensive Review on Renewable Energy Development, Challenges, and Policies of Leading Indian States With an International Perspective. IEEE Access, 2020, 8, 74432-74457.	2.6	328
2	Blockchain technology for security issues and challenges in IoT. Procedia Computer Science, 2018, 132, 1815-1823.	1.2	258
3	Performance analysis of 100 kWp grid connected Si-poly photovoltaic system using PVsyst simulation tool. Energy Procedia, 2017, 117, 180-189.	1.8	114
4	The Internet of Things: Insights into the building blocks, component interactions, and architecture layers. Procedia Computer Science, 2018, 132, 109-117.	1.2	113
5	Hybrid Renewable Energy Microgrid for a Residential Community: A Techno-Economic and Environmental Perspective in the Context of the SDG7. Sustainability, 2020, 12, 3944.	1.6	103
6	Envisioning the UN Sustainable Development Goals (SDGs) through the lens of energy sustainability (SDG 7) in the post-COVID-19 world. Applied Energy, 2021, 292, 116665.	5.1	102
7	Investigation of Inorganic Phase Change Material for a Semi-Transparent Photovoltaic (STPV) Module. Energies, 2020, 13, 3582.	1.6	100
8	Distributed Energy Resources and the Application of AI, IoT, and Blockchain in Smart Grids. Energies, 2020, 13, 5739.	1.6	99
9	Performance, energy loss, and degradation prediction of roof-integrated crystalline solar PV system installed in Northern India. Case Studies in Thermal Engineering, 2019, 13, 100409.	2.8	97
10	Exploring blockchain for the energy transition: Opportunities and challenges based on a case study in Japan. Renewable and Sustainable Energy Reviews, 2020, 117, 109488.	8.2	96
11	Recent 3D and 4D intelligent printing technologies: A comparative review and future perspective. Procedia Computer Science, 2020, 167, 1210-1219.	1.2	85
12	IoT based smart agrotech system for verification of Urban farming parameters. Microprocessors and Microsystems, 2021, 82, 104025.	1.8	82
13	Techno-economic analysis of 1â€MWp grid connected solar PV plant in Malaysia. International Journal of Ambient Energy, 2019, 40, 434-443.	1.4	78
14	COVID-DeepNet: Hybrid Multimodal Deep Learning System for Improving COVID-19 Pneumonia Detection in Chest X-ray Images. Computers, Materials and Continua, 2021, 67, 2409-2429.	1.5	77
15	Performance comparison of BAPV and BIPV systems with c-Si, CIS and CdTe photovoltaic technologies under tropical weather conditions. Case Studies in Thermal Engineering, 2019, 13, 100374.	2.8	70
16	Performance and degradation assessment of large-scale grid-connected solar photovoltaic power plant in tropical semi-arid environment of India. Solar Energy, 2020, 203, 101-113.	2.9	66
17	Progress and challenges of crop production and electricity generation in agrivoltaic systems using semi-transparent photovoltaic technology. Renewable and Sustainable Energy Reviews, 2022, 158, 112126.	8.2	64
18	Artificial intelligence-based solution for sorting COVID related medical waste streams and supporting data-driven decisions for smart circular economy practice. Chemical Engineering Research and Design, 2021, 152, 482-494.	2.7	55

#	ARTICLE	IF	CITATIONS
19	Sustainability-inspired upcycling of waste polyethylene terephthalate plastic into porous carbon for CO ₂ capture. <i>Green Chemistry</i> , 2022, 24, 1494-1504.	4.6	51
20	Dominance of Fossil Fuels in Japan's National Energy Mix and Implications for Environmental Sustainability. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 7347.	1.2	49
21	On the technologies empowering drones for intelligent monitoring of solar photovoltaic power plants. <i>Procedia Computer Science</i> , 2018, 133, 585-593.	1.2	46
22	Control Strategies of Different Hybrid Energy Storage Systems for Electric Vehicles Applications. <i>IEEE Access</i> , 2021, 9, 51865-51895.	2.6	46
23	A State-of-the-Art Review on the Drive of Renewables in Gujarat, State of India: Present Situation, Barriers and Future Initiatives. <i>Energies</i> , 2020, 13, 40.	1.6	45
24	Effect of infill pattern, density and material type of 3D printed cubic structure under quasi-static loading. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021, 235, 4254-4272.	1.1	43
25	Impacts of COVID-19 on Sustainable Development Goals and effective approaches to maneuver them in the post-pandemic environment. <i>Environmental Science and Pollution Research</i> , 2022, 29, 33957-33987.	2.7	43
26	Experimental analysis of solar concrete collector for residential buildings. <i>International Journal of Green Energy</i> , 2021, 18, 615-623.	2.1	42
27	Linking Economic Growth, Urbanization, and Environmental Degradation in China: What Is the Role of Hydroelectricity Consumption?. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 6975.	1.2	42
28	Smart cities in India: Features, policies, current status, and challenges. , 2018, , .		41
29	Operational performance of on-grid solar photovoltaic system integrated into pre-fabricated portable cabin buildings in warm and temperate climates. <i>Energy for Sustainable Development</i> , 2020, 57, 109-118.	2.0	41
30	Risk priority number for understanding the severity of photovoltaic failure modes and their impacts on performance degradation. <i>Case Studies in Thermal Engineering</i> , 2019, 16, 100563.	2.8	39
31	Effect of exhaust gas re-circulation on performance, emission and combustion characteristics of ethanol-fueled diesel engine. <i>Case Studies in Thermal Engineering</i> , 2020, 20, 100643.	2.8	39
32	Beyond environmental Kuznets curve and policy implications to promote sustainable development in Mediterranean. <i>Energy Reports</i> , 2021, 7, 6119-6129.	2.5	39
33	Lifecycle cost analysis (LCCA) of tailor-made building integrated photovoltaics (BIPV) facade: Solsmaragden case study in Norway. <i>Solar Energy</i> , 2020, 211, 488-502.	2.9	38
34	Operational Performance and Degradation Influenced Life Cycle Environmental Economic Metrics of mc-Si, a-Si and HIT Photovoltaic Arrays in Hot Semi-arid Climates. <i>Sustainability</i> , 2020, 12, 1075.	1.6	37
35	Analysis of Using Biogas Resources for Electric Vehicle Charging in Bangladesh: A Techno-Economic-Environmental Perspective. <i>Sustainability</i> , 2020, 12, 2579.	1.6	37
36	A Comprehensive Survey on Different Control Strategies and Applications of Active Power Filters for Power Quality Improvement. <i>Energies</i> , 2021, 14, 4589.	1.6	37

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37	Decarbonize Russia – A Best–Worst Method approach for assessing the renewable energy potentials, opportunities and challenges. Energy Reports, 2021, 7, 4498-4515.	2.5	37
38	Internet of Things (IoT) in Photovoltaic Systems. , 2018, , .		35
39	A Novel Islanding Detection Technique for a Resilient Photovoltaic-Based Distributed Power Generation System Using a Tunable-Q Wavelet Transform and an Artificial Neural Network. Energies, 2020, 13, 4238.	1.6	33
40	A Review of Optimization Algorithms in Solving Hydro Generation Scheduling Problems. Energies, 2020, 13, 2787.	1.6	32
41	Power Resilience Enhancement of a Residential Electricity User Using Photovoltaics and a Battery Energy Storage System under Uncertainty Conditions. Energies, 2020, 13, 4193.	1.6	31
42	Exergy analysis of thin-film solar PV module in ground-mount, floating and submerged installation methods. Case Studies in Thermal Engineering, 2020, 21, 100686.	2.8	31
43	A grasshopper optimization algorithm for optimal short-term hydrothermal scheduling. Energy Reports, 2021, 7, 314-323.	2.5	30
44	Optimal energy performance and comparison of open rack and roof mount mono c-Si photovoltaic Systems. Energy Procedia, 2017, 117, 136-144.	1.8	29
45	A High Gain DC-DC Converter with Grey Wolf Optimizer Based MPPT Algorithm for PV Fed BLDC Motor Drive. Applied Sciences (Switzerland), 2020, 10, 2797.	1.3	29
46	Modelling the daily reference evapotranspiration in semi-arid region of South India: A case study comparing ANFIS and empirical models. Information Processing in Agriculture, 2021, 8, 173-184.	2.9	29
47	Charge Scheduling Optimization of Plug-In Electric Vehicle in a PV Powered Grid-Connected Charging Station Based on Day-Ahead Solar Energy Forecasting in Australia. Sustainability, 2022, 14, 3498.	1.6	28
48	Fossil Fuel to Solar Power: A Sustainable Technical Design for Street Lighting in Fugar City, Nigeria. Procedia Computer Science, 2016, 93, 956-966.	1.2	26
49	Vertical Axis Wind Turbine: Aerodynamic Modelling and its Testing in Wind Tunnel. Procedia Computer Science, 2016, 93, 1017-1023.	1.2	25
50	Solar photovoltaic tree and its end-of-life management using thermal and chemical treatments for material recovery. Case Studies in Thermal Engineering, 2019, 14, 100474.	2.8	24
51	Wearable Smart Glass: Features, Applications, Current Progress and Challenges. , 2018, , .		23
52	Dust cleaning robots (DCR) for BIPV and BAPV solar power plants-A conceptual framework and research challenges. Procedia Computer Science, 2018, 133, 746-754.	1.2	23
53	Availability factor of a PV power plant: evaluation based on generation and inverter running periods. Energy Procedia, 2018, 147, 71-77.	1.8	22
54	Solar irradiance forecasting and energy optimization for achieving nearly net zero energy building. Journal of Renewable and Sustainable Energy, 2018, 10, 035103.	0.8	22

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55	High temperature superplasticity and its deformation mechanism of AA6063/SiC. Case Studies in Thermal Engineering, 2019, 14, 100479.	2.8	22
56	Systematic Categorization of Optimization Strategies for Virtual Power Plants. Energies, 2020, 13, 6251.	1.6	22
57	Clean Energies for Ghana—An Empirical Study on the Level of Social Acceptance of Renewable Energy Development and Utilization. Sustainability, 2021, 13, 3114.	1.6	22
58	Techno-economic optimization and real-time comparison of sun tracking photovoltaic system for rural healthcare building. Journal of Renewable and Sustainable Energy, 2019, 11, 015301.	0.8	21
59	Design and Analysis of Photovoltaic Powered Battery-Operated Computer Vision-Based Multi-Purpose Smart Farming Robot. Agronomy, 2021, 11, 530.	1.3	21
60	Multi-criteria decision analysis for optimal planning of desalination plant feasibility in different urban cities in India. Journal of Cleaner Production, 2021, 315, 128146.	4.6	21
61	Integrated modeling and feasibility analysis of a rooftop photovoltaic systems for an academic building in Bangladesh. International Journal of Low-Carbon Technologies, 2021, 16, 1317-1327.	1.2	21
62	A comprehensive review of dye-sensitized solar cell optimal fabrication conditions, natural dye selection, and application-based future perspectives. Environmental Science and Pollution Research, 2022, 29, 371-404.	2.7	21
63	Selected Aspects of Sustainable Mobility Reveals Implementable Approaches and Conceivable Actions. Sustainability, 2021, 13, 12918.	1.6	21
64	Impact of Clean Development Mechanism on Eco-friendly Energy Recovery Technology. Procedia Technology, 2015, 21, 54-58.	1.1	20
65	Performance of thin-film BIPV as double sloped pitched roof in buildings of Malaysia. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2018, 40, 2476-2484.	1.2	20
66	Experimental investigation on bi-axial superplastic forming characteristics of AA6063/SiCp with various percentages of SiCp under various temperatures and pressures. Results in Physics, 2019, 15, 102624.	2.0	20
67	Three years ahead solar irradiance forecasting to quantify degradation influenced energy potentials from thin film (a-Si) photovoltaic system. Results in Physics, 2019, 12, 701-703.	2.0	20
68	Effect of Two Different Heat Transfer Fluids on the Performance of Solar Tower CSP by Comparing Recompression Supercritical CO ₂ and Rankine Power Cycles, China. Energies, 2021, 14, 3426.	1.6	20
69	Blockchain: Enabling wide range of services in distributed energy system. Beni-Suef University Journal of Basic and Applied Sciences, 2018, 7, 701-704.	0.8	19
70	Solar PV systems design and monitoring., 2020, , 117-145.		19
71	Feasibility Assessment of Hybrid Solar Photovoltaic-Biogas Generator Based Charging Station: A Case of Easy Bike and Auto Rickshaw Scenario in a Developing Nation. Sustainability, 2022, 14, 166.	1.6	19
72	Outdoor measurement of mono and poly c-Si PV modules and array characteristics under varying load in hot-humid tropical climate. Materials Today: Proceedings, 2018, 5, 3456-3464.	0.9	18

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73	Internet of Things (IoT): An Opportunity for Energy-Food-Water Nexus. , 2018, , .		18
74	A preliminary study of the degradation of large-scale c-Si photovoltaic system under four years of operation in semi-arid climates. Results in Physics, 2019, 12, 1395-1397.	2.0	17
75	Firefly Algorithm-Based Photovoltaic Array Reconfiguration for Maximum Power Extraction during Mismatch Conditions. Sustainability, 2021, 13, 3206.	1.6	17
76	Design and Wind Tunnel Testing of Funnel Based Wind Energy Harvesting System. Procedia Technology, 2015, 21, 33-40.	1.1	16
77	Estimation of grid feed in electricity from roof integrated Si-amorph PV system based on orientation, tilt and available roof surface area. , 2017, , .		16
78	Performance evaluation of CdTe BIPV roof and façades in tropical weather conditions. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2020, 42, 1057-1071.	1.2	16
79	On-Grid Solar Photovoltaic System: Components, Design Considerations, and Case Study. , 2018, , .		15
80	Experimental assessment of the 3-axis filament winding machine performance. Results in Engineering, 2019, 2, 100017.	2.2	15
81	Solar Cell Technology Selection for a PV Leaf Based on Energy and Sustainability Indicators—A Case of a Multilayered Solar Photovoltaic Tree. Energies, 2020, 13, 6439.	1.6	15
82	Energy loss analysis of a large scale BIPV system for university buildings in tropical weather conditions: A partial and cumulative performance ratio approach. Case Studies in Thermal Engineering, 2021, 25, 100916.	2.8	15
83	Underwater performance of thin-film photovoltaic module immersed in shallow and deep waters along with possible applications. Results in Physics, 2019, 15, 102768.	2.0	14
84	Preparation and characterization of two dye-sensitized solar cells using <i>Acalypha Godseffia</i> and <i>Epipremnum Aureum</i> dyes as sensitizers. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2020, 42, 1662-1673.	1.2	14
85	Performance of Hybrid Filter in a Microgrid Integrated Power System Network Using Wavelet Techniques. Applied Sciences (Switzerland), 2020, 10, 6792.	1.3	14
86	Experimental study on novel curved blade vertical axis wind turbines. Results in Engineering, 2020, 7, 100149.	2.2	14
87	Performance comparison of building integrated multi-wattage photovoltaic generators mounted vertically and horizontally. , 2017, , .		13
88	Nanofluid as coolant for grinding process: An overview. IOP Conference Series: Materials Science and Engineering, 2018, 342, 012078.	0.3	13
89	Experimental performance investigation of <i>Partially Stabilized Zirconia</i> coated low heat rejection diesel engine with waste plastic oil as a fuel. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2023, 45, 11046-11059.	1.2	12
90	Advancing simulation tools specific to floating solar photovoltaic systems – Comparative analysis of field-measured and simulated energy performance. Sustainable Energy Technologies and Assessments, 2022, 52, 102168.	1.7	12

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91	Data acquisition system: On the solar photovoltaic module and weather parameters monitoring. <i>Procedia Computer Science</i> , 2018, 132, 873-879.	1.2	11
92	Wireless technology applied in 3-axis filament winding machine control system using MIT app inventor. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 469, 012030.	0.3	11
93	Solar PV module technologies. , 2020, , 51-78.		11
94	Scenario-Based Investigation on the Effect of Partial Shading Condition Patterns for Different Static Solar Photovoltaic Array Configurations. <i>IEEE Access</i> , 2021, 9, 116050-116072.	2.6	11
95	Effect of boundary factor and material property on single square honeycomb sandwich panel subjected to quasi-static compression loading. <i>Journal of Mechanical Engineering and Sciences</i> , 2020, 14, 7348-7360.	0.3	11
96	Quality Management Practices of Food Manufacturers: A Comparative Study between Small, Medium and Large Companies in Malaysia. <i>Sustainability</i> , 2020, 12, 7725.	1.6	10
97	A Critical Review of Power Take-Off Wave Energy Technology Leading to the Conceptual Design of a Novel Wave-Plus-Photon Energy Harvester for Island/Coastal Communitiesâ€™ Energy Needs. <i>Sustainability</i> , 2022, 14, 2354.	1.6	10
98	A Critical Assessment on Functional Attributes and Degradation Mechanism of Membrane Electrode Assembly Components in Direct Methanol Fuel Cells. <i>Sustainability</i> , 2021, 13, 13938.	1.6	10
99	Comparative life-cycle cost and GHG emission analysis of five different water heating systems for residential buildings in Australia. <i>Beni-Suef University Journal of Basic and Applied Sciences</i> , 2018, 7, 748-751.	0.8	9
100	Effect of winding angle on the quasi-static crushing behaviour of thin-walled carbon fibre-reinforced polymer tubes. <i>Polymers and Polymer Composites</i> , 2020, 28, 462-472.	1.0	9
101	Performance of single-sloped pitched roof cadmium telluride (CdTe) building-integrated photovoltaic system in tropical weather conditions. <i>Beni-Suef University Journal of Basic and Applied Sciences</i> , 2019, 8, .	0.8	8
102	A Rigid Cuckoo Search Algorithm for Solving Short-Term Hydrothermal Scheduling Problem. <i>Sustainability</i> , 2021, 13, 4277.	1.6	8
103	Model to estimate the potential and performance of Wavevoltaics. <i>Results in Physics</i> , 2019, 12, 914-916.	2.0	7
104	Life cycle assessment and environmental impacts of solar PV systems. , 2020, , 391-411.		7
105	Optimally Tuned Interleaved Luo Converter for PV Array Fed BLDC Motor Driven Centrifugal Pumps Using Whale Optimization Algorithmâ€™A Resilient Solution for Powering Agricultural Loads. <i>Electronics (Switzerland)</i> , 2020, 9, 1445.	1.8	6
106	A Novel Sensorless Approach for Speed and Displacement Control of Bearingless Switched Reluctance Motor. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4070.	1.3	6
107	Exhaust Gas Recirculation on a Nano-Coated Combustion Chamber of a Diesel Engine Fueled with Waste Plastic Oil. <i>Sustainability</i> , 2022, 14, 1148.	1.6	6
108	Computer-Aided Diagnosis of Epilepsy Based on the Time-Frequency Texture Descriptors of EEG Signals Using Wavelet Packet Decomposition and Artificial Neural Network. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 677-688.	0.5	5

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109	U-drill embedded with phase change heat transfer device for machining applications. Case Studies in Thermal Engineering, 2019, 15, 100533.	2.8	5
110	Power generation using Green Technology in Iron and Steel industry. , 2015, , .		4
111	Applicability of Wearable Smart Glass for Solar Power Plant Operation and Maintenance. , 2018, , .		4
112	Potential emission reductions from Indiaâ€™s transport sector: a view from the green transportation projects under CDM. Energy Procedia, 2018, 147, 438-444.	1.8	4
113	Realtime monitoring on the HIT photovoltaic module characteristic parameters at STC, high and low irradiance conditions in Algeria. Procedia Computer Science, 2018, 132, 1238-1242.	1.2	4
114	Small Scale Rooftop Solar PV Systems for Rural Electrification in India. , 2018, , .		4
115	BIPV Power Plants and Policy recommendatons. , 2018, , .		4
116	Smart grid and power quality issues. , 2018, , 195-202.		4
117	Effect of Soiling on Power Output of a Photovoltaic System. Lecture Notes in Electrical Engineering, 2020, , 351-359.	0.3	4
118	Speed control of 3-phase Induction motor fed through direct matrix converter using GSPWM technique with unity input power factor. , 2016, , .		3
119	BIPV Market Growth: SWOT Analysis and Favorable Factors. , 2018, , .		3
120	An Overview of Various Control and Stability Techniques for Power-Sharing in Microgrids. Lecture Notes in Electrical Engineering, 2021, , 1-14.	0.3	3
121	Influence of tilt angle on energy yields and performance ratios of grid connected photovoltaic generators in Southeast Asia. Progress in Industrial Ecology, 2019, 13, 264.	0.1	3
122	Assessing the Environmental Footprint of Distiller-Dried Grains with Soluble Diet as a Substitute for Standard Cornâ€™Soybean for Swine Production in the United States of America. Sustainability, 2022, 14, 1161.	1.6	3
123	Web-Based Decision Support System for Managing the Foodâ€™Waterâ€™Soilâ€™Ecosystem Nexus in the Kolleru Freshwater Lake of Andhra Pradesh in South India. Sustainability, 2022, 14, 2044.	1.6	3
124	Estimation of solar collector area for water heating in buildings of Malaysia. IOP Conference Series: Materials Science and Engineering, 2018, 342, 012039.	0.3	2
125	Computational analysis of three blade vertical axis wind turbine. Progress in Industrial Ecology, 2018, 12, 120.	0.1	2
126	Optical Head, Mounted Displays (OHMDâ€™s) in Visual Inspection of Solar and Wind Power Systems. , 2018, , .		2

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127	Salp swarm algorithm to solve Short-Term hydrothermal scheduling problem. Materials Today: Proceedings, 2023, 80, 3660-3662.	0.9	2
128	Economics and environmental impacts of solar energy technologies. , 2022, , 391-423.		2
129	Airfoil selection and computational study on the torque performance of 4-blade vertical axis wind turbine. Journal of Physics: Conference Series, 2018, 1139, 012040.	0.3	1
130	Emission Reductions from Solar PV Plants in India. , 2018, , .		1
131	Application of Multi-domain Fusion Methods for Detecting Epilepsy from Electroencephalogram Using Classification Methods. Advances in Intelligent Systems and Computing, 2019, , 743-754.	0.5	1
132	Modelling of heuristic distribution algorithm to optimize flexible production scheduling in Indian industry. Procedia Computer Science, 2020, 167, 1120-1127.	1.2	1
133	Data related to crystalline photovoltaic plant performance in the semi-arid climate of India. Data in Brief, 2020, 31, 105696.	0.5	1
134	Computational analysis of three blade vertical axis wind turbine. Progress in Industrial Ecology, 2018, 12, 120.	0.1	1
135	Natural Dyes from Ornamental Plants as Sensitizers for Dye-Sensitized Solar Cells (DSSCs): A Review on the Structure-Activity Relationships (SARs) between Power Conversion Efficiencies and Chemical Constituents. Russian Journal of Applied Chemistry, 2021, 94, 1561-1576.	0.1	1
136	Energy performance of optimally inclined free standing photovoltaic system. , 2017, , .		0
137	Two Blade Vertical Axis Wind Turbine: Investigations on the Torque Generation at Different Rotational Velocities. IOP Conference Series: Materials Science and Engineering, 2018, 455, 012093.	0.3	0
138	Performance of Photovoltaics in Ground Mount-Floating-Submerged Installation Methods. Lecture Notes in Electrical Engineering, 2021, , 199-207.	0.3	0
139	Development of Single and Multi-jet Conical Nozzle Based Open Jet Facility for Cold Jet Simulation. Advances in Intelligent Systems and Computing, 2018, , 309-322.	0.5	0
140	Clean Development Mechanism in Indian Agriculture Sector: Benefits, Current Status, and Challenges. International Journal of Global Science Research, 2018, 5, .	0.1	0
141	AC/DC Microgrids. , 2020, , 41-58.		0
142	Improving Overall Equipment Effectiveness by Enabling Autonomous Maintenance Pillar for Integrated Work Systems. , 2021, , .		0