

Sudhakar Babu Thanikanti

List of Publications by Citations

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113
papers

2,527
citations

27
h-index

48
g-index

128
ext. papers

3,714
ext. citations

4.1
avg, IF

6.1
L-index

#	Paper	IF	Citations
113	A comprehensive review on solar PV maximum power point tracking techniques. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 67, 826-847	16.2	242
112	A new hybrid bee pollinator flower pollination algorithm for solar PV parameter estimation. <i>Energy Conversion and Management</i> , 2017 , 135, 463-476	10.6	171
111	Solar PV array reconfiguration under partial shading conditions for maximum power extraction using genetic algorithm. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 43, 102-110	16.2	159
110	Particle Swarm Optimization Based Solar PV Array Reconfiguration of the Maximum Power Extraction Under Partial Shading Conditions. <i>IEEE Transactions on Sustainable Energy</i> , 2018 , 9, 74-85	8.2	150
109	Modified Particle Swarm Optimization technique based Maximum Power Point Tracking for uniform and under partial shading condition. <i>Applied Soft Computing Journal</i> , 2015 , 34, 613-624	7.5	129
108	Parameter extraction of two diode solar PV model using Fireworks algorithm. <i>Solar Energy</i> , 2016 , 140, 265-276	6.8	121
107	PV cell and module efficient parameters estimation using Evaporation Rate based Water Cycle Algorithm. <i>Swarm and Evolutionary Computation</i> , 2017 , 35, 93-110	9.8	93
106	Analysis on solar PV emulators: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 81, 149-160	16.2	75
105	Fractional chaotic ensemble particle swarm optimizer for identifying the single, double, and three diode photovoltaic models parameters. <i>Energy</i> , 2020 , 195, 116979	7.9	66
104	. <i>IEEE Access</i> , 2020 , 8, 112407-112426	3.5	64
103	A novel approach for fuel cell parameter estimation using simple Genetic Algorithm. <i>Sustainable Energy Technologies and Assessments</i> , 2015 , 12, 46-52	4.7	62
102	A novel approach to parameter estimation of photovoltaic systems using hybridized optimizer. <i>Energy Conversion and Management</i> , 2019 , 187, 486-511	10.6	59
101	A new metaphor-less algorithms for the photovoltaic cell parameter estimation. <i>Optik</i> , 2020 , 208, 164552	5.5	59
100	Solar PV Modelling and Parameter Extraction Using Artificial Immune System. <i>Energy Procedia</i> , 2015 , 75, 331-336	2.3	51
99	. <i>IEEE Access</i> , 2020 , 8, 148702-148721	3.5	50
98	. <i>IEEE Access</i> , 2019 , 7, 121432-121445	3.5	44
97	Empowering smart grid: A comprehensive review of energy storage technology and application with renewable energy integration. <i>Journal of Energy Storage</i> , 2021 , 39, 102591	7.8	44

96	Evaluation of Mathematical Model to Characterize the Performance of Conventional and Hybrid PV Array Topologies under Static and Dynamic Shading Patterns. <i>Energies</i> , 2020 , 13, 3216	3.1	40
95	Comparative study of PEM fuel cell parameter extraction using Genetic Algorithm. <i>Ain Shams Engineering Journal</i> , 2015 , 6, 1187-1194	4.4	40
94	Photovoltaic Array Reconfiguration System for Maximizing the Harvested Power Using Population-Based Algorithms. <i>IEEE Access</i> , 2020 , 8, 109608-109624	3.5	37
93	A novel objective function with artificial ecosystem-based optimization for relieving the mismatching power loss of large-scale photovoltaic array. <i>Energy Conversion and Management</i> , 2020 , 225, 113385	10.6	37
92	Selective voltage harmonic elimination in PWM inverter using bacterial foraging algorithm. <i>Swarm and Evolutionary Computation</i> , 2015 , 20, 74-81	9.8	33
91	Fractional Chaos Maps with Flower Pollination Algorithm for Partial Shading Mitigation of Photovoltaic Systems. <i>Energies</i> , 2019 , 12, 3548	3.1	32
90	Recent methodology based Harris Hawks optimizer for designing load frequency control incorporated in multi-interconnected renewable energy plants. <i>Sustainable Energy, Grids and Networks</i> , 2020 , 22, 100352	3.6	32
89	A robust parameter estimation approach based on stochastic fractal search optimization algorithm applied to solar PV parameters. <i>Energy Reports</i> , 2021 , 7, 620-640	4.6	29
88	Static and dynamic reconfiguration approaches for mitigation of partial shading influence in photovoltaic arrays. <i>Sustainable Energy Technologies and Assessments</i> , 2020 , 40, 100738	4.7	27
87	A Near Accurate Solar PV Emulator Using dSPACE Controller for Real-time Control. <i>Energy Procedia</i> , 2014 , 61, 2640-2648	2.3	27
86	Multi-Objective Grey Wolf Optimizer for Optimal Design of Switching Matrix for Shaded PV array Dynamic Reconfiguration. <i>IEEE Access</i> , 2020 , 8, 159931-159946	3.5	26
85	Optimal Allocation of DG and DSTATCOM in Radial Distribution System Using Cuckoo Search Optimization Algorithm. <i>Modelling and Simulation in Engineering</i> , 2017 , 2017, 1-11	1.3	24
84	Application of Modified Particle Swarm Optimization for Maximum Power Point Tracking under Partial Shading Condition. <i>Energy Procedia</i> , 2014 , 61, 2633-2639	2.3	23
83	Improved Perturb and Observation Maximum Power Point Tracking Technique for Solar Photovoltaic Power Generation Systems. <i>IEEE Systems Journal</i> , 2021 , 15, 3024-3035	4.3	23
82	Voltage band based improved particle swarm optimization technique for maximum power point tracking in solar photovoltaic system. <i>Journal of Renewable and Sustainable Energy</i> , 2016 , 8, 013106	2.5	22
81	Priority-based Energy Management Technique for Integration of Solar PV, Battery, and Fuel Cell Systems in an Autonomous DC Microgrid. <i>Electric Power Components and Systems</i> , 2017 , 45, 1881-1891	1	20
80	Critical Evaluation of Genetic Algorithm Based Fuel Cell Parameter Extraction. <i>Energy Procedia</i> , 2015 , 75, 1975-1982	2.3	20
79	Synchronverter: A Comprehensive Review of Modifications, Stability Assessment, Applications and Future Perspectives. <i>IEEE Access</i> , 2020 , 8, 131565-131589	3.5	20

78	Modeling, analysis and design of efficient maximum power extraction method for solar PV system. <i>Sustainable Energy Technologies and Assessments</i> , 2016 , 15, 60-70	4.7	19
77	Fireworks Algorithm-Based Maximum Power Point Tracking for Uniform Irradiation as Well as Under Partial Shading Condition. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 79-88	0.4	18
76	A novel review on optimization techniques used in wind farm modelling. <i>Renewable Energy Focus</i> , 2020 , 35, 84-96	5.4	15
75	Efficient fractional-order modified Harris hawks optimizer for proton exchange membrane fuel cell modeling. <i>Engineering Applications of Artificial Intelligence</i> , 2021 , 100, 104193	7.2	15
74	A Nearly Accurate Solar Photovoltaic Emulator Using a dSPACE Controller for Real-time Control. <i>Electric Power Components and Systems</i> , 2016 , 44, 774-782	1	15
73	Comparative study on charge controller techniques for solar PV system. <i>Energy Procedia</i> , 2017 , 117, 1070-1077	14	14
72	Enhanced Marine Predators Algorithm for identifying static and dynamic Photovoltaic models parameters. <i>Energy Conversion and Management</i> , 2021 , 236, 113971	10.6	14
71	A reliable approach for modeling the photovoltaic system under partial shading conditions using three diode model and hybrid marine predators-slime mould algorithm. <i>Energy Conversion and Management</i> , 2021 , 243, 114269	10.6	13
70	L-Shape Propagated Array Configuration With Dynamic Reconfiguration Algorithm for Enhancing Energy Conversion Rate of Partial Shaded Photovoltaic Systems. <i>IEEE Access</i> , 2021 , 9, 97661-97674	3.5	13
69	A TCT-SC Hybridized Voltage Equalizer for Partial Shading Mitigation in PV Arrays. <i>IEEE Transactions on Sustainable Energy</i> , 2021 , 12, 2268-2281	8.2	12
68	Simultaneous Allocation of DG and DSTATCOM Using Whale Optimization Algorithm. <i>Iranian Journal of Science and Technology - Transactions of Electrical Engineering</i> , 2020 , 44, 879-896	1.9	11
67	A Comprehensive Survey on Different Control Strategies and Applications of Active Power Filters for Power Quality Improvement. <i>Energies</i> , 2021 , 14, 4589	3.1	11
66	Parameter extraction of solar PV double diode model using artificial immune system 2015 ,		10
65	Firefly Algorithm-Based Photovoltaic Array Reconfiguration for Maximum Power Extraction during Mismatch Conditions. <i>Sustainability</i> , 2021 , 13, 3206	3.6	10
64	An Effective Salp Swarm Based MPPT for Photovoltaic Systems Under Dynamic and Partial Shading Conditions. <i>IEEE Access</i> , 2021 , 9, 34570-34589	3.5	10
63	A State-of-the-Art Review on Conducted Electromagnetic Interference in Non-Isolated DC to DC Converters. <i>IEEE Access</i> , 2020 , 8, 2564-2577	3.5	9
62	. <i>IEEE Access</i> , 2021 , 9, 65824-65837	3.5	8
61	Induction Heating in Domestic Cooking and Industrial Melting Applications: A Systematic Review on Modelling, Converter Topologies and Control Schemes. <i>Energies</i> , 2021 , 14, 6634	3.1	7

60	Performance of Hybrid Filter in a Microgrid Integrated Power System Network Using Wavelet Techniques. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6792	2.6	7
59	. <i>IEEE Access</i> , 2021 , 9, 94789-94812	3.5	7
58	Load Shifting and Peak Clipping for Reducing Energy Consumption in an Indian University Campus. <i>Energies</i> , 2021 , 14, 558	3.1	7
57	Maximum Power Point Tracking using Modified PSO with Cuk Converter 2014 ,		6
56	An Adaptive Feed-Forward Phase Locked Loop for Grid Synchronization of Renewable Energy Systems under Wide Frequency Deviations. <i>Sustainability</i> , 2020 , 12, 7048	3.6	6
55	A dynamic photo voltaic emulator using dSPACE controller with high accuracy solar photo voltaic characteristics. <i>Journal of Renewable and Sustainable Energy</i> , 2016 , 8, 015503	2.5	6
54	Power Enhancement in Partial Shaded Photovoltaic System Using Spiral Pattern Array Configuration Scheme. <i>IEEE Access</i> , 2021 , 9, 123103-123116	3.5	6
53	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	3.5	6
52	Black Widow Optimization-Based Optimal PI-Controlled Wind Turbine Emulator. <i>Sustainability</i> , 2020 , 12, 10357	3.6	5
51	Fractional chaos maps with flower pollination algorithm for chaotic systems parameters identification. <i>Neural Computing and Applications</i> , 2020 , 32, 16291-16327	4.8	5
50	A Practical Approach for Predicting Power in a Small-Scale Off-Grid Photovoltaic System using Machine Learning Algorithms. <i>International Journal of Photoenergy</i> , 2022 , 2022, 1-21	2.1	5
49	. <i>IEEE Access</i> , 2021 , 9, 156297-156312	3.5	5
48	Impact of Uneven Shading by Neighboring Buildings and Clouds on the Conventional and Hybrid Configurations of Roof-Top PV Arrays. <i>IEEE Access</i> , 2021 , 9, 139059-139073	3.5	5
47	Conducted Electromagnetic Interference Spectral Peak Mitigation in Luo-Converter Using FPGA-Based Chaotic PWM Technique. <i>Electric Power Components and Systems</i> , 2019 , 47, 838-848	1	4
46	Techno economic performance analysis of hybrid renewable electrification system for remote villages of India. <i>International Transactions on Electrical Energy Systems</i> , 2020 , 31, e12515	2.2	4
45	Fpa based approach for solar maximum power point tracking 2016 ,		4
44	Tuning PID Controller for Inverted Pendulum Using Genetic Algorithm. <i>Lecture Notes in Electrical Engineering</i> , 2018 , 395-404	0.2	4
43	Performance Enhancement of Partial Shaded Photovoltaic System With the Novel Screw Pattern Array Configuration Scheme. <i>IEEE Access</i> , 2022 , 10, 1731-1744	3.5	3

42	Ancient Chinese magic square-based PV array reconfiguration methodology to reduce power loss under partial shading conditions. <i>Energy Conversion and Management</i> , 2022 , 253, 115148	10.6	3
41	Updated PSO optimised fuzzy-PI controlled buck type multi-phase inverter-based PMSM drive with an over-current protection scheme. <i>IET Electric Power Applications</i> , 2020 , 14, 2331-2339	1.8	3
40	Solar PV parameter extraction using FPA 2016 ,		3
39	A Recurrent Reward Based Learning Technique for Secure Neighbor Selection in Mobile AD-HOC Networks. <i>IEEE Access</i> , 2021 , 9, 21735-21745	3.5	3
38	2018 ,		3
37	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. <i>Sustainability</i> , 2022 , 14, 3498	3.6	3
36	Solid-State Transformers: Fundamentals, Topologies, Applications, and Future Challenges. <i>Sustainability</i> , 2022 , 14, 319	3.6	3
35	Solving optimum power flow in dynamic environments to minimize tracking errors using dynamic bacterial foraging algorithm 2013 ,		2
34	A Novel Array Configuration Technique for Improving the Power Output of the Partial Shaded Photovoltaic System. <i>IEEE Access</i> , 2022 , 10, 15056-15067	3.5	2
33	Review of the Estimation Methods of Energy Consumption for Battery Electric Buses. <i>Energies</i> , 2021 , 14, 7578	3.1	2
32	A Robust Fractional-Order PID Controller Based Load Frequency Control Using Modified Hunger Games Search Optimizer. <i>Energies</i> , 2022 , 15, 361	3.1	2
31	Electric Buses in Malaysia: Policies, Innovations, Technologies and Life Cycle Evaluations. <i>Sustainability</i> , 2021 , 13, 11577	3.6	2
30	Effect of Partial Shading and Performance Analysis on Various Array Configurations of Photovoltaic System 2019 ,		2
29	Power System Resiliency and Wide Area Control Employing Deep Learning Algorithm. <i>Computers, Materials and Continua</i> , 2021 , 68, 553-567	3.9	2
28	Single Source Multi-Frequency AC-AC Converter for Induction Cooking Applications. <i>Energies</i> , 2021 , 14, 4799	3.1	2
27	Self-Controlled PMSM Drive Employed in Light Electric Vehicle-Dynamic Strategy and Performance Optimization. <i>IEEE Access</i> , 2021 , 1-1	3.5	2
26	Development of Control Techniques Using Modified Fuzzy Based SAPF for Power Quality Enhancement. <i>IEEE Access</i> , 2021 , 9, 68396-68413	3.5	2
25	Managing the exchange of energy between microgrid elements based on multi-objective enhanced marine predators algorithm. <i>AEJ - Alexandria Engineering Journal</i> , 2022 , 61, 8487-8505	6.1	2

24	Performance and Reliability Improvement of Partially Shaded PV Arrays by One-Time Electrical Reconfiguration. <i>IEEE Access</i> , 2022 , 10, 46911-46935	3.5	2
23	An innovative method for solar pv parameter extraction for double diode model 2015 ,		1
22	A New Multi-Output DC-DC Converter for Electric Vehicle Application. <i>IEEE Access</i> , 2022 , 1-1	3.5	1
21	Estimating the optimal parameters of solid oxide fuel cell-based circuit using parasitism-predation algorithm. <i>International Journal of Energy Research</i> , 2021 , 45, 18018-18032	4.5	1
20	Comment on Important notes on parameter estimation of solar photovoltaic cell by Gnetchejo et al. [Energy Conversion and Management, https://doi.org/10.1016/j.enconman.2019.111870]. <i>Energy Conversion and Management</i> , 2019 , 201, 112131	10.6	1
19	Reply on Reply to comment on Important notes on parameter estimation of solar photovoltaic cell by Gnetchejo et al. [Energy Conversion and Management, https://doi.org/10.1016/j.enconman.2019.111870]. <i>Energy Conversion and Management</i> , 2019 , 201, 112234	10.6	1
18	IoT-Based Real Time Energy Management of Virtual Power Plant Using PLC for Transactive Energy Framework. <i>IEEE Access</i> , 2021 , 9, 97643-97660	3.5	1
17	Power losses mitigation through electrical reconfiguration in partial shading prone solar PV arrays. <i>Optik</i> , 2022 , 259, 168973	2.5	1
16	Design, development, and performance testing of thermal energy storage based solar dryer system for seeded grapes. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 51, 101923	4.7	0
15	A New Alternate Method to Reuse Rehashed Edible Oil for the Betterment of Society - Dual Benefit Approach in Photovoltaic Modules. <i>IEEE Access</i> , 2021 , 9, 128434-128441	3.5	0
14	A Novel Hybrid GMPPT Scheme Based on P&O-MM with Reduced Output Power Oscillations Under PSC for PV System. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 299-308	0.2	0
13	Recent approach based heterogeneous comprehensive learning Archimedes optimization algorithm for identifying the optimal parameters of different fuel cells. <i>Energy</i> , 2022 , 248, 123587	7.9	0
12	Simulation and investigation of MEMS bilayer solar energy harvester for smart wireless sensor applications. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 52, 102102	4.7	0
11	Bypass Diodes Configurations for Mismatch Losses Mitigation in Solar PV Modules. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 197-208	0.2	0
10	Cost- Effective Energy Conservation Techniques for Textile Spinning Mills. <i>IEEE Access</i> , 2022 , 1-1	3.5	0
9	Enhanced Salp Swarm Algorithm for Multimodal Optimization and Fuzzy Based Grid Frequency Controller Design. <i>Energies</i> , 2022 , 15, 3210	3.1	0
8	Parameter extraction of photovoltaic cell based on a multi-objective approach using nondominated sorting cuckoo search optimization. <i>Solar Energy</i> , 2022 , 239, 359-374	6.8	0
7	A novel virtual inertia emulation technique for the single phase electric vehicle charging topology. <i>Computers and Electrical Engineering</i> , 2022 , 101, 108114	4.3	0

6	Dynamic Performance Enhancement of Three-Phase PV Grid-Connected Systems Using Constant Power Generation (CPG). <i>Advances in Intelligent Systems and Computing</i> , 2017 , 187-198	0.4
5	Optimal Parameter Extraction of PEM Fuel Cell Using an Effective Approach. <i>Learning and Analytics in Intelligent Systems</i> , 2020 , 24-30	0.3
4	Converter/Inverter Topologies for Standalone and Grid-Connected PV Systems. <i>Energy Systems in Electrical Engineering</i> , 2021 , 35-80	0.3
3	Different Control Mechanisms of a PMSM Drive for Electrified Transportation A Survey. <i>Smart Innovation, Systems and Technologies</i> , 2022 , 395-405	0.5
2	Sensor angle-based control strategy and dynamic analysis of a sinusoidal pulse width modulation-operated permanent magnet synchronous machine drive for electric propulsion unit. <i>International Transactions on Electrical Energy Systems</i> , e13090	2.2
1	Energy Meter with Real-Time Electricity Bill Prediction. <i>Green Energy and Technology</i> , 2022 , 361-372	0.6