P J Ker

List of Publications by Year in Descending Order

55 papers	**1,922** citations	**22** h-index	**43** g-index
59 ext. papers	**3,051** ext. citations	**5.1** avg, IF	**5.63** L-index

#	Paper	IF	Citations
55	Rule-based fuzzy controller for solid state transfer switch towards fast sensitive loads transfer. *IEEE Transactions on Industry Applications*, **2022**, 1-1	4.3	1
54	Optimal Algorithms for Energy Storage Systems in Microgrid Applications: An Analytical Evaluation Towards Future Directions. *IEEE Access*, **2022**, 10, 10105-10123	3.5	2
53	Grid-connected lithium-ion battery energy storage system: A bibliometric analysis for emerging future directions. *Journal of Cleaner Production*, **2022**, 334, 130272	10.3	5
52	Color Index of Transformer Oil: A Low-Cost Measurement Approach Using Ultraviolet-Blue Laser. *Sensors*, **2021**, 21,	3.8	2
51	Energy Management Scheduling for Microgrids in the Virtual Power Plant System Using Artificial Neural Networks. *Energies*, **2021**, 14, 6507	3.1	5
50	The Amber-Colored Liquid: A Review on the Color Standards, Methods of Detection, Issues and Recommendations. *Sensors*, **2021**, 21,	3.8	1
49	Influence of front surface single-pulse laser drilling on a bifacial solar cell determined through simulation and experiment. *Optical and Quantum Electronics*, **2021**, 53, 1	2.4	
48	Portable NIR Spectroscopy Measuring Device for Transformer Oil DBPC Inhibitor Analysis. *IEEE Transactions on Industry Applications*, **2021**, 57, 2114-2119	4.3	1
47	State-of-Charge Estimation of Li-ion Battery Using Gated Recurrent Unit With One-Cycle Learning Rate Policy. *IEEE Transactions on Industry Applications*, **2021**, 57, 2964-2971	4.3	8
46	Fuzzy-Based Charging–Discharging Controller for Lithium-Ion Battery in Microgrid Applications. *IEEE Transactions on Industry Applications*, **2021**, 57, 4187-4195	4.3	10
45	SOC Estimation of Li-ion Batteries With Learning Rate-Optimized Deep Fully Convolutional Network. *IEEE Transactions on Power Electronics*, **2021**, 36, 7349-7353	7.2	26
44	Utilization of Renewable Energy for Power Sector in Yemen: Current Status and Potential Capabilities. *IEEE Access*, **2021**, 9, 79278-79292	3.5	1
43	Intelligent Controllers and Optimization Algorithms for Building Energy Management Towards Achieving Sustainable Development: Challenges and Prospects. *IEEE Access*, **2021**, 9, 41577-41602	3.5	10
42	A Review on Thermophotovoltaic Cell and Its Applications in Energy Conversion: Issues and Recommendations. *Materials*, **2021**, 14,	3.5	6
41	A Feasible Alternative to FDSOI and FinFET: Optimization of W/LaO/Si Planar PMOS with 14 nm Gate-Length. *Materials*, **2021**, 14,	3.5	2
40	Performance of Ge and In0.53Ga0.47 as Thermophotovoltaic Cells under Different Spectral Irradiances. *IEEE Access*, **2021**, 9, 37091-37102	3.5	1
39	State-of-Charge Estimation of Li-Ion Battery in Electric Vehicles: A Deep Neural Network Approach. *IEEE Transactions on Industry Applications*, **2020**, 56, 5565-5574	4.3	34

38	Recent Development of Thermophotovoltaic System for Waste Heat Harvesting Application and Potential Implementation in Thermal Power Plant. *IEEE Access*, **2020**, 8, 105156-105168	3.5	9
37	Review of optimal methods and algorithms for sizing energy storage systems to achieve decarbonization in microgrid applications. *Renewable and Sustainable Energy Reviews*, **2020**, 131, 110022	16.2	52
36	Optimized controller for renewable energy sources integration into microgrid: Functions, constraints and suggestions. *Journal of Cleaner Production*, **2020**, 256, 120419	10.3	32
35	Power Quality Assessment of Grid-Connected PV System in Compliance with the Recent Integration Requirements. *Electronics (Switzerland)*, **2020**, 9, 366	2.6	36
34	. *IEEE Access*, **2020**, 8, 19113-19132	3.5	78
33	Detection of 2FAL Furanic Compound in Transformer Oil Using Optical Spectroscopy Method and Verification Using Morse Oscillation Theory. *IEEE Access*, **2020**, 8, 76773-76779	3.5	6
32	State-of-Charge Estimation of Li-ion Battery at Variable Ambient Temperature with Gated Recurrent Unit Network **2020**,		2
31	Particle swarm optimization algorithm-based PI inverter controller for a grid-connected PV system. *PLoS ONE*, **2020**, 15, e0243581	3.7	5
30	Grid-connected renewable energy sources: Review of the recent integration requirements and control methods. *Journal of Cleaner Production*, **2020**, 253, 119831	10.3	102
29	The value of thermal management control strategies for battery energy storage in grid decarbonization: Issues and recommendations. *Journal of Cleaner Production*, **2020**, 276, 124223	10.3	18
28	Waste collection route optimisation model for linking cost saving and emission reduction to achieve sustainable development goals. *Sustainable Cities and Society*, **2020**, 62, 102393	10.1	31
27	Role of optimization algorithms based fuzzy controller in achieving induction motor performance enhancement. *Nature Communications*, **2020**, 11, 3792	17.4	11
26	Review on Solid-State Transfer Switch Configurations and Control Methods: Applications, Operations, Issues, and Future Directions. *IEEE Access*, **2020**, 8, 182490-182505	3.5	6
25	Fault Prediction for Power Transformer Using Optical Spectrum of Transformer Oil and Data Mining Analysis. *IEEE Access*, **2020**, 8, 136374-136381	3.5	1
24	Fuzzy Based Particle Swarm Optimization for Modeling Home Appliances Towards Energy Saving and Cost Reduction Under Demand Response Consideration. *IEEE Access*, **2020**, 8, 210784-210799	3.5	10
23	Particle swarm optimization algorithm-based PI inverter controller for a grid-connected PV system **2020**, 15, e0243581		
22	Particle swarm optimization algorithm-based PI inverter controller for a grid-connected PV system **2020**, 15, e0243581		
21	Particle swarm optimization algorithm-based PI inverter controller for a grid-connected PV system **2020**, 15, e0243581		

20	Particle swarm optimization algorithm-based PI inverter controller for a grid-connected PV system **2020**, 15, e0243581		
19	State of Charge Estimation for Lithium-Ion Batteries Using Model-Based and Data-Driven Methods: A Review. *IEEE Access*, **2019**, 7, 136116-136136	3.5	123
18	Power electronics contribution to renewable energy conversion addressing emission reduction: Applications, issues, and recommendations. *Applied Energy*, **2019**, 251, 113404	10.7	55
17	Fuzzy Logic Inverter Controller in Photovoltaic Applications: Issues and Recommendations. *IEEE Access*, **2019**, 7, 24934-24955	3.5	46
16	Binary Particle Swarm Optimization for Scheduling MG Integrated Virtual Power Plant Toward Energy Saving. *IEEE Access*, **2019**, 7, 107937-107951	3.5	22
15	Microgrid control methods toward achieving sustainable energy management. *Applied Energy*, **2019**, 240, 583-607	10.7	55
14	Backtracking Search Algorithm Based Fuzzy Charging-Discharging Controller for Battery Storage System in Microgrid Applications. *IEEE Access*, **2019**, 7, 159357-159368	3.5	14
13	State-of-Charge Estimation of Li-ion Battery in Electric Vehicles: A Deep Neural Network Approach **2019**,		4
12	State-of-the-Art and Energy Management System of Lithium-Ion Batteries in Electric Vehicle Applications: Issues and Recommendations. *IEEE Access*, **2018**, 6, 19362-19378	3.5	265
11	Optimization of energy management system for fuel-cell hybrid electric vehicles: Issues and recommendations. *Applied Energy*, **2018**, 228, 2061-2079	10.7	150
10	Artificial Intelligent Based Damping Controller Optimization for the Multi-Machine Power System: A Review. *IEEE Access*, **2018**, 6, 39574-39594	3.5	38
9	Review of Energy Storage System Technologies in Microgrid Applications: Issues and Challenges. *IEEE Access*, **2018**, 6, 35143-35164	3.5	209
8	Advanced Control Strategies of VSC Based HVDC Transmission System: Issues and Potential Recommendations. *IEEE Access*, **2018**, 6, 78352-78369	3.5	29
7	A review of state of health and remaining useful life estimation methods for lithium-ion battery in electric vehicles: Challenges and recommendations. *Journal of Cleaner Production*, **2018**, 205, 115-133	10.3	246
6	Switching Techniques and Intelligent Controllers for Induction Motor Drive: Issues and Recommendations. *IEEE Access*, **2018**, 6, 47489-47510	3.5	23
5	A Review of Internet of Energy Based Building Energy Management Systems: Issues and Recommendations. *IEEE Access*, **2018**, 6, 38997-39014	3.5	95
4	Charge Equalization Controller Algorithm for Series-Connected Lithium-Ion Battery Storage Systems: Modeling and Applications. *Energies*, **2017**, 10, 1390	3.1	23
3	GPS-based highway toll collection system: Novel design and operation. *Cogent Engineering*, **2017**, 4, 1326199		1

LIST OF PUBLICATIONS

2   Modeling of 14 nm gate length n-Type MOSFET **2015**,   3

1   InAs avalanche photodiodes for X-ray detection. *Journal of Instrumentation*, **2011**, 6, P12005-P12005   1   4

2   Modeling of 14 nm gate length n-Type MOSFET **2015**,   3

1   InAs avalanche photodiodes for X-ray detection. *Journal of Instrumentation*, **2011**, 6, P12005-P12005