

Muhannad Alaraj

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A Machine Learning-Based Gradient Boosting Regression Approach for Wind Power Production Forecasting: A Step towards Smart Grid Environments. <i>Energies</i> , 2021, 14, 5196.	3.1	72
2	Microbial fuel cell energy harvesting using synchronous flyback converter. <i>Journal of Power Sources</i> , 2014, 247, 636-642.	7.8	48
3	Net power positive maximum power point tracking energy harvesting system for microbial fuel cell. <i>Journal of Power Sources</i> , 2019, 418, 225-232.	7.8	32
4	Intelligent energy harvesting scheme for microbial fuel cells: Maximum power point tracking and voltage overshoot avoidance. <i>Journal of Power Sources</i> , 2017, 342, 726-732.	7.8	31
5	A PEMFC model optimization using the enhanced bald eagle algorithm. <i>Ain Shams Engineering Journal</i> , 2022, 13, 101749.	6.1	31
6	Energy Production Forecasting From Solar Photovoltaic Plants Based on Meteorological Parameters for Qassim Region, Saudi Arabia. <i>IEEE Access</i> , 2021, 9, 83241-83251.	4.2	19
7	Techno-Economic and Environmental Analysis of Grid-Connected Electric Vehicle Charging Station Using AI-Based Algorithm. <i>Mathematics</i> , 2022, 10, 924.	2.2	19
8	Dynamic modeling of a microbial fuel cell considering anodic electron flow and electrical charge storage. <i>Applied Energy</i> , 2017, 193, 507-514.	10.1	18
9	Proton Exchange Membrane Fuel Cells Modeling Using Chaos Game Optimization Technique. <i>Sustainability</i> , 2021, 13, 7911.	3.2	15
10	Novel AI Based Energy Management System for Smart Grid With RES Integration. <i>IEEE Access</i> , 2021, 9, 162530-162542.	4.2	12
11	Open circuit fault detection and localization in modular multilevel converter. , 2016, , .		9
12	An Intelligent Approach to Active and Reactive Power Control in a Grid-Connected Solar Photovoltaic System. <i>Sustainability</i> , 2021, 13, 4219.	3.2	9
13	Effect of power shape on energy extraction from microbial fuel cell. <i>Journal of Power Sources</i> , 2017, 366, 86-92.	7.8	6
14	Grey Wolf Optimizer-Based Array Reconfiguration to Enhance Power Production from Solar Photovoltaic Plants under Different Scenarios. <i>Sustainability</i> , 2021, 13, 13627.	3.2	6
15	An Intelligent PI Controller-Based Hybrid Series Active Power Filter for Power Quality Improvement. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-10.	1.1	5
16	An Advanced and Robust Approach to Maximize Solar Photovoltaic Power Production. <i>Sustainability</i> , 2022, 14, 7398.	3.2	5
17	Design and Development of a Proficient Converter for Solar Photovoltaic Based Sustainable Power Generating System. <i>Sustainability</i> , 2021, 13, 2045.	3.2	4
18	Optimal Sizing of Hybrid Energy System Using Random Exploratory Search-Centred Harris Hawks Optimizer with Improved Exploitation Capability. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-22.	1.1	2

#	ARTICLE	IF	CITATIONS
19	Optimal operating point for energy harvesting from microbial fuel cell with finite initial energy. Journal of Power Sources, 2018, 400, 183-189.	7.8	1