

# Mohammed Mosaad

## List of Publications by Year in descending order

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66  
papers

1,525  
citations

331259

21  
h-index

344852

36  
g-index

66  
all docs

66  
docs citations

66  
times ranked

1014  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal economic study of hybrid PV-wind-fuel cell system integrated to unreliable electric utility using hybrid search optimization technique. International Journal of Hydrogen Energy, 2021, 46, 11217-11231.	3.8	115
2	Particle swarm optimization algorithm for capacitor allocation problem in distribution systems with wind turbine generators. International Journal of Electrical Power and Energy Systems, 2017, 84, 143-152.	3.3	100
3	Maximum Power Point Tracking of PV system Based Cuckoo Search Algorithm; review and comparison. Energy Procedia, 2019, 162, 117-126.	1.8	78
4	Model reference adaptive control of STATCOM for grid integration of wind energy systems. IET Electric Power Applications, 2018, 12, 605-613.	1.1	67
5	Optimal PI controller of DVR to enhance the performance of hybrid power system feeding a remote area in Egypt. Sustainable Cities and Society, 2019, 47, 101469.	5.1	59
6	Power quality enhancement of grid-connected fuel cell using evolutionary computing techniques. International Journal of Hydrogen Energy, 2018, 43, 11568-11582.	3.8	58
7	LFC based adaptive PID controller using ANN and ANFIS techniques. Journal of Electrical Systems and Information Technology, 2014, 1, 212-222.	1.2	55
8	Near-Optimal PI Controllers of STATCOM for Efficient Hybrid Renewable Power System. IEEE Access, 2021, 9, 34119-34130.	2.6	55
9	Estimating Power Transformer High Frequency Model Parameters Using Frequency Response Analysis. IEEE Transactions on Power Delivery, 2020, 35, 1267-1277.	2.9	53
10	Reliability Support of Undependable Grid Using Green Energy Systems: Economic Study. IEEE Access, 2021, 9, 14528-14539.	2.6	51
11	Transformer Parameters Estimation From Nameplate Data Using Evolutionary Programming Techniques. IEEE Transactions on Power Delivery, 2014, 29, 2118-2123.	2.9	48
12	Performance improvement of off-grid hybrid renewable energy system using dynamic voltage restorer. AEJ - Alexandria Engineering Journal, 2020, 59, 1567-1581.	3.4	39
13	Performance enhancement of grid-connected PV systems using adaptive reference PI controller. Ain Shams Engineering Journal, 2021, 12, 541-554.	3.5	39
14	An Improved Lightning Attachment Procedure Optimizer for Optimal Reactive Power Dispatch With Uncertainty in Renewable Energy Resources. IEEE Access, 2020, 8, 168721-168731.	2.6	38
15	Enhancing the performance of wind energy conversion systems using unified power flow controller. IET Generation, Transmission and Distribution, 2020, 14, 1922-1929.	1.4	38
16	Optimal Design of an Isolated Hybrid Microgrid for Enhanced Deployment of Renewable Energy Sources in Saudi Arabia. Sustainability, 2021, 13, 4708.	1.6	38
17	Integrating adaptive control of renewable distributed Switched Reluctance Generation and feeder protection coordination. Electric Power Systems Research, 2018, 154, 452-462.	2.1	35
18	Application of Superconductors to Improve the Performance of DFIG-Based WECS. IEEE Access, 2019, 7, 103760-103769.	2.6	34

#	ARTICLE	IF	CITATIONS
19	Direct power control of SRG-based WECSs using optimised fractional-order PI controller. IET Electric Power Applications, 2020, 14, 409-417.	1.1	34
20	Optimal Power Flow Analysis Based on Hybrid Gradient-Based Optimizer with Moth-Flame Optimization Algorithm Considering Optimal Placement and Sizing of FACTS/Wind Power. Mathematics, 2022, 10, 361.	1.1	33
21	Elephant herding algorithm-based optimal PI controller for LVRT enhancement of wind energy conversion systems. Ain Shams Engineering Journal, 2021, 12, 599-608.	3.5	30
22	Optimal allocation of FACTS devices in power system using genetic algorithms. , 2008, , .		28
23	Optimal Reliability Study of Grid-Connected PV Systems Using Evolutionary Computing Techniques. IEEE Access, 2021, 9, 42125-42139.	2.6	26
24	A Comparison Between MPC and Optimal PID Controllers: Case Studies. , 2015, , .		22
25	Application of SMES Technology in Improving the Performance of a DFIG-WECS Connected to a Weak Grid. IEEE Access, 2021, 9, 124541-124548.	2.6	22
26	Understanding the Influence of Power Transformer Faults on the Frequency Response Signature Using Simulation Analysis and Statistical Indicators. IEEE Access, 2021, 9, 70935-70947.	2.6	21
27	Application of Superconductors to Suppress Ferroresonance Overvoltage in DFIG-WECS. IEEE Transactions on Energy Conversion, 2022, 37, 766-777.	3.7	19
28	Optimal Reactive Power Dispatch Using a Chaotic Turbulent Flow of Water-Based Optimization Algorithm. Mathematics, 2022, 10, 346.	1.1	19
29	Metaheuristic-based Near-Optimal Fractional Order PI Controller for On-grid Fuel Cell Dynamic Performance Enhancement. Electric Power Systems Research, 2022, 208, 107897.	2.1	19
30	MPPT of PV-Wind-Fuel Cell of Off-Grid Hybrid System for a New Community. , 2018, , .		18
31	Ferroresonance Overvoltage Mitigation Using STATCOM for Grid-connected Wind Energy Conversion Systems. Journal of Modern Power Systems and Clean Energy, 2022, 10, 407-415.	3.3	17
32	High performance adaptive maximum power point tracking technique for off-grid photovoltaic systems. Scientific Reports, 2021, 11, 20400.	1.6	17
33	Economic and Ecological Design of Hybrid Renewable Energy Systems Based on a Developed IWO/BSA Algorithm. Electronics (Switzerland), 2021, 10, 687.	1.8	16
34	Interpretation of Frequency Response Analysis for Fault Detection in Power Transformers. Applied Sciences (Switzerland), 2021, 11, 2923.	1.3	15
35	Enhancing the Fault Ride-through Capability of a DFIG-WECS Using a High-Temperature Superconducting Coil. Energies, 2021, 14, 6319.	1.6	14
36	Technoeconomic and Environmental Study of Multi-Objective Integration of PV/Wind-Based DGs Considering Uncertainty of System. Electronics (Switzerland), 2021, 10, 3035.	1.8	14

#	ARTICLE	IF	CITATIONS
37	MPPT of hybrid solar-wind-grid power generation system. International Journal of Industrial Electronics and Drives, 2015, 2, 234.	0.1	13
38	Application of Logistic Regression Algorithm in the Interpretation of Dissolved Gas Analysis for Power Transformers. Electronics (Switzerland), 2021, 10, 1206.	1.8	10
39	Estimation of Transmission Line Parameters Using Voltage-Current Measurements and Whale Optimization Algorithm. Energies, 2021, 14, 3239.	1.6	10
40	Voltageâ€‘current technique to identify fault location within long transmission lines. IET Generation, Transmission and Distribution, 2020, 14, 5588-5596.	1.4	10
41	An Adaptive Protection Scheme for Coordination of Distance and Directional Overcurrent Relays in Distribution Systems Based on a Modified School-Based Optimizer. Electronics (Switzerland), 2021, 10, 2628.	1.8	10
42	Adaptive voltage regulation of self excited induction generator using FACTS controllers. International Journal of Industrial Electronics and Drives, 2014, 1, 219.	0.1	9
43	Optimal Design of Microgrid Using Chimp Optimization Algorithm. , 2021, , .		9
44	Political Optimization Algorithm for Optimal Coordination of Directional Overcurrent Relays. , 2020, , .		8
45	Application of Frequency Response Analysis Technique to Detect Transformer Tap Changer Faults. Applied Sciences (Switzerland), 2021, 11, 3128.	1.3	7
46	Application of Frequency Response Analysis Method to Detect Short-Circuit Faults in Three-Phase Induction Motors. Applied Sciences (Switzerland), 2022, 12, 2046.	1.3	7
47	Optimal power flow using evolutionary programming techniques. , 2008, , .		6
48	Power quality improvement of WEGCS using STATCOM-based EC techniques. International Journal of Industrial Electronics and Drives, 2017, 3, 229.	0.1	6
49	Efficient predictive models for characterization of photovoltaic module performance. Sustainable Energy Technologies and Assessments, 2020, 38, 100672.	1.7	5
50	Self-Regulated Single-phase Induction Generator for Variable Speed Stand-alone WECS. Intelligent Automation and Soft Computing, 2021, 28, 715-727.	1.6	4
51	Comparative Study between the Electrical Generators Used in Wind Energy Conversion Systems. International Journal of Energy, 2020, 14, 88-92.	0.1	4
52	Performance of PMSG-Wind Power Plant During Three Phase Faults with ANN Based Control of STATCOM. , 2021, , .		3
53	Control of Self Excited Induction Generator using ANN based SVC. International Journal of Computer Applications, 2011, 23, 11-25.	0.2	3
54	Optimal Location and Size of SVC Devices in Interconnected Electrical Power System Using Quadratic Adaptive Bacterial Foraging Algorithm. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
55	Direct Torque Control of Synchronous Motors Using Artificial Neural Network. , 2019, , .		2
56	Design and development of low-cost photovoltaic module characterization educational demonstration tool. Materials Today: Proceedings, 2021, 46, 5433-5440.	0.9	2
57	The Role of Inflammation in Early and Late Phase of Parkinson Disease. Pharmacophore, 2021, 12, 51-56.	0.2	2
58	Performance Enhancing PV System Interconnected with D-STATCOM Using ANN and LAPO. , 2021, , .		2
59	Power quality improvement of WEGCS using STATCOM-based EC techniques. International Journal of Industrial Electronics and Drives, 2017, 3, 229.	0.1	2
60	Grid-Connected PV System Statistics and Evaluation; Review. Journal of Applied Hematology, 0, , .	0.1	2
61	Incorporating inductorâ€capacitor branch for thyristorâ€based DC fault current interruption. International Transactions on Electrical Energy Systems, 2020, 30, e12197.	1.2	1
62	Efficiency Improvement of Solar Cells by Coating with Chlorophyll and Different Types of Oils. , 2021, , .		1
63	Study on Preparation Method of Heat-Insulated Super-Hydrophobic Film and Improvement of Photovoltaic Modules Efficiency. , 2021, , .		1
64	Brucella cardiac implantable electronic device infection: A single-center case series. Annals of Medicine and Surgery, 2021, 68, 102568.	0.5	0
65	Robust Speed Regulation of Induction Motor Subjected to Unknown Load Torque. Intelligent Automation and Soft Computing, 2022, 31, 591-605.	1.6	0
66	Application of Energy-Saving for an inverter feeds three-phase induction motor. Journal of Applied Hematology, 0, , .	0.1	0