

# Sherif M Ghoneim

## List of Publications by Year in descending order

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115  
papers

2,176  
citations

218677

26  
h-index

289244

40  
g-index

115  
all docs

115  
docs citations

115  
times ranked

1027  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Multi-dimensional energy management based on an optimal power flow model using an improved quasi-reflection jellyfish optimization algorithm. <i>Engineering Optimization</i> , 2023, 55, 907-929.  | 2.6 | 9         |
| 2  | A modified marine predators optimization algorithm for simultaneous network reconfiguration and distributed generator allocation in distribution systems under different loading conditions. <i>Engineering Optimization</i> , 2022, 54, 687-708. | 2.6 | 41        |
| 3  | A novel improved marine predators algorithm for combined heat and power economic dispatch problem. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 1834-1851.   | 6.4 | 42        |
| 4  | Mixture probability distribution functions using novel metaheuristic method in wind speed modeling. <i>Ain Shams Engineering Journal</i> , 2022, 13, 101613.  | 6.1 | 13        |
| 5  | Prediction of Transformer Oil Breakdown Voltage with Barriers Using Optimization Techniques. <i>Intelligent Automation and Soft Computing</i> , 2022, 31, 1593-1610.  | 2.1 | 3         |
| 6  | An efficient compensation of modified DSTATCOM for improving microgrid operation. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 5501-5516.  | 6.4 | 8         |
| 7  | Field-Dependent Pollution Model under Polluted Environments for Outdoor Polymeric Insulators. <i>Polymers</i> , 2022, 14, 516.  | 4.5 | 11        |
| 8  | Efficient Data Compression of ECG Signal Based on Modified Discrete Cosine Transform. <i>Computers, Materials and Continua</i> , 2022, 71, 4391-4408.   | 1.9 | 0         |
| 9  | Downlink Performance Analysis in MIMO UAV-Cellular Communication With LOS/NLOS Propagation Under 3D Beamforming. <i>IEEE Access</i> , 2022, 10, 6650-6659.  | 4.2 | 22        |
| 10 | Robust interconnection and damping assignment energy-based control for a permanent magnet synchronous motor using high order sliding mode approach and nonlinear observer. <i>Energy Reports</i> , 2022, 8, 1731-1740.                            | 5.1 | 29        |
| 11 | Design and Characterization of Compact Broadband Antenna and Its MIMO Configuration for 28 GHz 5G Applications. <i>Electronics (Switzerland)</i> , 2022, 11, 523.   | 3.1 | 47        |
| 12 | A Non-Isolated Hybrid Zeta Converter with a High Voltage Gain and Reduced Size of Components. <i>Electronics (Switzerland)</i> , 2022, 11, 483.   | 3.1 | 6         |
| 13 | Multi-Objective Optimization of 400 kV Composite Insulator Corona Ring Design. <i>IEEE Access</i> , 2022, 10, 27579-27590.  | 4.2 | 14        |
| 14 | Novel Design of Slim Mould Optimizer for the Solution of Optimal Power Flow Problems Incorporating Intermittent Sources: A Case Study of Algerian Electricity Grid. <i>IEEE Access</i> , 2022, 10, 22646-22661.                                   | 4.2 | 17        |
| 15 | Fault Diagnostics and Tolerance Analysis of a Microgrid System Using Hamiltonâ€™Jacobiâ€™Isaacs Equation and Game Theoretic Estimations in Sliding Mode Observers. <i>Sensors</i> , 2022, 22, 1597.   | 3.8 | 1         |
| 16 | Optimal Location and Sizing of Distributed Generators in Power System Network with Power Quality Enhancement Using Fuzzy Logic Controlled D-STATCOM. <i>Sustainability</i> , 2022, 14, 3305.  | 3.2 | 14        |
| 17 | Effect of Isothermal Conditions on the Charge Trapping/Detrapping Parameters in e-Beam Irradiated Thermally Aged XLPE Insulation in SEM. <i>Materials</i> , 2022, 15, 1918.   | 2.9 | 2         |
| 18 | Quasi-Reflection Jellyfish Optimizer for Optimal Power Flow in Electrical Power Systems. <i>Studies in Informatics and Control</i> , 2022, 31, 49-58.   | 1.2 | 4         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Experimental validation of advanced SP-SAF based on intelligent controllers for power quality enhancement. Energy Reports, 2022, 8, 3018-3029.                                      | 5.1 | 5         |
| 20 | A Comprehensive Analysis of Wireless Charging Systems for Electric Vehicles. IEEE Access, 2022, 10, 43865-43881.  | 4.2 | 24        |
| 21 | Households' Energy Choices in Rural Pakistan. Energies, 2022, 15, 3149.   | 3.1 | 11        |
| 22 | Investigation on New Metaheuristic Algorithms for Solving Dynamic Combined Economic Environmental Dispatch Problems. Sustainability, 2022, 14, 5554.                                | 3.2 | 5         |
| 23 | Magnetic field evaluation around 400 KV underground power cable under harmonics effects. Diagnostyka, 2022, , 1-10.   | 0.8 | 0         |
| 24 | Evaluation of Radio Communication Links of 4G Systems. Sensors, 2022, 22, 3923.   | 3.8 | 2         |
| 25 | Intelligent Torque Allocation Based Coordinated Switching Strategy for Comfort Enhancement of Hybrid Electric Vehicles. IEEE Access, 2022, 10, 58097-58115.                         | 4.2 | 22        |
| 26 | Coordinated Design of Type-2 Fuzzy Lead-Lag-Structured SSSCs and PSSs for Power System Stability Improvement. Sustainability, 2022, 14, 6656.                                       | 3.2 | 5         |
| 27 | Cone Model in Resource Provisioning for Service-Oriented Architecture System: An Effective Network Management to the Internet of Things. IEEE Access, 2022, 10, 61385-61397.        | 4.2 | 1         |
| 28 | Intelligent Speed Control and Performance Investigation of a Vector Controlled Electric Vehicle Considering Driving Cycles. Electronics (Switzerland), 2022, 11, 1925.              | 3.1 | 18        |
| 29 | Design and Analysis of Polarization-Independent, Wide-Angle, Broadband Metasurface Absorber Using Resistor-Loaded Split-Ring Resonators. Electronics (Switzerland), 2022, 11, 1986. | 3.1 | 16        |
| 30 | Effective Transmission Congestion Management via Optimal DG Capacity Using Hybrid Swarm Optimization for Contemporary Power System Operations. IEEE Access, 2022, 10, 71091-71106.  | 4.2 | 27        |
| 31 | Experimental Investigation of an Adaptive Fuzzy-Neural Fast Terminal Synergetic Controller for Buck DC/DC Converters. Sustainability, 2022, 14, 7967.                               | 3.2 | 7         |
| 32 | Fuzzy-Energy-Management-Based Intelligent Direct Torque Control for a Battery-Supercapacitor Electric Vehicle. Sustainability, 2022, 14, 8407.                                      | 3.2 | 22        |
| 33 | A new approach of tap changer maintenance incorporating nanoparticle insulating oil. Electrical Engineering, 2021, 103, 931-944.  | 2.0 | 6         |
| 34 | Transformer fault types and severity class prediction based on neural pattern-recognition techniques. Electric Power Systems Research, 2021, 191, 106899.                           | 3.6 | 23        |
| 35 | Self-Regulated Single-phase Induction Generator for Variable Speed Stand-alone WECS. Intelligent Automation and Soft Computing, 2021, 28, 715-727.                                  | 2.1 | 4         |
| 36 | Accuracy Improvement of Power Transformer Faults Diagnostic Using KNN Classifier With Decision Tree Principle. IEEE Access, 2021, 9, 81693-81701.                                   | 4.2 | 52        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | A Forensic-Based Investigation Algorithm for Parameter Extraction of Solar Cell Models. IEEE Access, 2021, 9, 1-20.  | 4.2 | 69        |
| 38 | Performance Assessment of Solar Generating Units Based on Coot Bird Metaheuristic Optimizer. IEEE Access, 2021, 9, 111616-111632.                                  | 4.2 | 13        |
| 39 | Adaptive Dynamic Meta-Heuristics for Feature Selection and Classification in Diagnostic Accuracy of Transformer Faults. IEEE Access, 2021, 9, 78324-78340.         | 4.2 | 49        |
| 40 | Advanced Ensemble Model for Solar Radiation Forecasting Using Sine Cosine Algorithm and Newton's Laws. IEEE Access, 2021, 9, 115750-115765.                        | 4.2 | 45        |
| 41 | Enhancing the Diagnostic Accuracy of DGA Techniques Based on IEC-TC10 and Related Databases. IEEE Access, 2021, 9, 118031-118041.                                  | 4.2 | 18        |
| 42 | Fault Detection Algorithms for Achieving Service Continuity in Photovoltaic Farms. Intelligent Automation and Soft Computing, 2021, 29, 467-479.                   | 2.1 | 6         |
| 43 | An Improved Direct Torque Control Topology of a Double Stator Machine Using the Fuzzy Logic Controller. IEEE Access, 2021, 9, 126400-126413.                       | 4.2 | 9         |
| 44 | Enhancing Diagnostic Accuracy of Transformer Faults Using Teaching-Learning-Based Optimization. IEEE Access, 2021, 9, 30817-30832.                                 | 4.2 | 58        |
| 45 | A Secured Social-Economic Framework Based on PEM-Blockchain for Optimal Scheduling of Reconfigurable Interconnected Microgrids. IEEE Access, 2021, 9, 40797-40810. | 4.2 | 30        |
| 46 | Determination of Transformers' Insulating Paper State Based on Classification Techniques. Processes, 2021, 9, 427.   | 2.8 | 13        |
| 47 | Transient Thermal Performance of Power Cable Ascertained Using Finite Element Analysis. Processes, 2021, 9, 438.   | 2.8 | 12        |
| 48 | Accurate Insulating Oil Breakdown Voltage Model Associated with Different Barrier Effects. Processes, 2021, 9, 657.  | 2.8 | 25        |
| 49 | Accuracy Improvement of Transformer Faults Diagnostic Based on DGA Data Using SVM-BA Classifier. Energies, 2021, 14, 2970.   | 3.1 | 36        |
| 50 | Multilevel converter integration for low voltage ride through controlling renewable wind energy conversion systems. Journal of Engineering Research, 2021, 9, .    | 0.7 | 0         |
| 51 | A Quad-Band RF Circuit for Enhancement of Energy Harvesting. Electronics (Switzerland), 2021, 10, 1160.  | 3.1 | 3         |
| 52 | Classification of Cellulosic Insulation State Based on Smart Life Prediction Approach (SLPA). Processes, 2021, 9, 981.   | 2.8 | 8         |
| 53 | Optimal Economic and Environmental Indices for Hybrid PV/Wind-Based Battery Storage System. Journal of Electrical Engineering and Technology, 2021, 16, 2847-2862. | 2.0 | 20        |
| 54 | A Multi-Objective Marine Predator Optimizer for Optimal Techno-Economic Operation of AC/DC Grids. Studies in Informatics and Control, 2021, 30, 89-99.             | 1.2 | 13        |

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|----|---|-----|-----------|
| 55 | Experimental and theoretical study on the compressive strength of the high strength concrete incorporating steel fiber and metakaolin. Structures, 2021, 31, 57-67.                               | 3.6 | 25        |
| 56 | The Impact of Coil Position and Number on Wireless System Performance for Electric Vehicle Recharging. Sensors, 2021, 21, 4343.   | 3.8 | 10        |
| 57 | Cost Minimizations and Performance Enhancements of Power Systems Using Spherical Prune Differential Evolution Algorithm Including Modal Analysis. Sustainability, 2021, 13, 8113.                 | 3.2 | 9         |
| 58 | Transient impedance of grounding system with impulse superimposed sinewave. Energy and Thermofluids Engineering, 2021, 1, 8-12.   | 0.3 | 0         |
| 59 | Gorilla Troops Optimizer for Electrically Based Single and Double-Diode Models of Solar Photovoltaic Systems. Sustainability, 2021, 13, 9459.   | 3.2 | 67        |
| 60 | A Comparison between Particle Swarm and Grey Wolf Optimization Algorithms for Improving the Battery Autonomy in a Photovoltaic System. Applied Sciences (Switzerland), 2021, 11, 7732.            | 2.5 | 22        |
| 61 | Diagnostic Modelling for Induction Motor Faults via ANFIS Algorithm and DWT-Based Feature Extraction. Applied Sciences (Switzerland), 2021, 11, 9115.   | 2.5 | 6         |
| 62 | Performance analysis of three-phase hybrid fault current limiter with one commutation circuit. International Journal of Electrical Power and Energy Systems, 2021, 133, 107297.                   | 5.5 | 6         |
| 63 | Multi-objective jellyfish search optimizer for efficient power system operation based on multi-dimensional OPF framework. Energy, 2021, 237, 121478.  | 8.8 | 45        |
| 64 | Wind Speed Ensemble Forecasting Based on Deep Learning Using Adaptive Dynamic Optimization Algorithm. IEEE Access, 2021, 9, 125787-125804.  | 4.2 | 67        |
| 65 | Near-Optimal PI Controllers of STATCOM for Efficient Hybrid Renewable Power System. IEEE Access, 2021, 9, 34119-34130.  | 4.2 | 55        |
| 66 | The Degree of Polymerization in a Prediction Model of Insulating Paper and the Remaining Life of Power Transformers. Energies, 2021, 14, 670.   | 3.1 | 24        |
| 67 | Adequate Operation of Hybrid AC/MT-HVDC Power Systems Using an Improved Multi-Objective Marine Predators Optimizer. IEEE Access, 2021, 9, 51065-51087.  | 4.2 | 26        |
| 68 | Mitigation of Magnetic Flux Density of Underground Power Cable and its Conductor Temperature Based on FEM. IEEE Access, 2021, 9, 146592-146602.   | 4.2 | 6         |
| 69 | Robust Design of Power System Stabilizers Using Improved Harris Hawk Optimizer for Interconnected Power System. Sustainability, 2021, 13, 11776.  | 3.2 | 9         |
| 70 | New intelligent direct power control of DFIG-based wind conversion system by using machine learning under variations of all operating and compensation modes. Energy Reports, 2021, 7, 6394-6412. | 5.1 | 29        |
| 71 | Optimized Thin-Film Organic Solar Cell with Enhanced Efficiency. Sustainability, 2021, 13, 13087.   | 3.2 | 2         |
| 72 | Robust Model Predictive Control Paradigm for Automatic Voltage Regulators against Uncertainty Based on Optimization Algorithms. Mathematics, 2021, 9, 2885.                                       | 2.2 | 55        |

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|----|---|-----|-----------|
| 73 | Fractional-Fuzzy PID Control Approach of Photovoltaic-Wire Feeder System (PV-WFS): Simulation and HIL-Based Experimental Investigation. IEEE Access, 2021, 9, 159933-159954.  | 4.2 | 24        |
| 74 | Improvement of Trajectory Tracking by Robot Manipulator Based on a New Co-Operative Optimization Algorithm. Mathematics, 2021, 9, 3231.   | 2.2 | 22        |
| 75 | Artificial Intelligence for Creating Low Latency and Predictive Intrusion Detection with Security Enhancement in Power Systems. Applied Sciences (Switzerland), 2021, 11, 11988.                                    | 2.5 | 4         |
| 76 | General Mathematical Solution for Selective Harmonic Elimination. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 4440-4456.  | 5.4 | 32        |
| 77 | A Single DC Source Nine-Level Switched-Capacitor Boost Inverter Topology With Reduced Switch Count. IEEE Access, 2020, 8, 5840-5851.  | 4.2 | 61        |
| 78 | Comparative Study of Full and Reduced Feature Scenarios for Health Index Computation of Power Transformers. IEEE Access, 2020, 8, 181326-181339.  | 4.2 | 14        |
| 79 | Classical Control for Unequal DC Sources Five-Level Inverter-Based SHE Technique. Energies, 2020, 13, 4715.   | 3.1 | 1         |
| 80 | Enhanced partial discharge location determination for transformer insulating oils considering allocations and uncertainties of acoustic measurements. AEJ - Alexandria Engineering Journal, 2020, 59, 4759-4769.    | 6.4 | 12        |
| 81 | Economic Power and Heat Dispatch in Cogeneration Energy Systems Using Manta Ray Foraging Optimizer. IEEE Access, 2020, 8, 208281-208295.  | 4.2 | 31        |
| 82 | Optimal ratio limits of rogers' four-ratios and IEC 60599 code methods using particle swarm optimization fuzzy-logic approach. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 222-230.       | 2.9 | 39        |
| 83 | Modelling and experimental verification of barrier effect on breakdown voltage of transformer oil using Box-Behnken Design. Measurement: Journal of the International Measurement Confederation, 2019, 147, 106829. | 5.0 | 11        |
| 84 | Breakdown performance of transformer oil in the presence of single-phase nanocrystalline ZnO and nano-partial substitution. IET Science, Measurement and Technology, 2019, 13, 737-745.                             | 1.6 | 12        |
| 85 | Framework for optimal grounding system design concerning IEEE standard. Electrical Engineering, 2019, 101, 1261-1276.   | 2.0 | 2         |
| 86 | Selective harmonic elimination method for unequal DC sources of multilevel inverters. Automatika, 2019, 60, 378-384.  | 2.0 | 6         |
| 87 | Evaluation of dielectric breakdown strength of transformer oil with BaTiO3 and NiFe2O4 nanoparticles. Electrical Engineering, 2019, 101, 369-377.   | 2.0 | 13        |
| 88 | Investigation of Insulating Oils in Presence of Impurities. , 2019, , .   |     | 2         |
| 89 | A Decision Transformer Fault Diagnostics System Based on Dissolved Gas Analysis. , 2019, , .  |     | 5         |
| 90 | Determination of Partial Discharge Severity in Power Transformers Based on the Starting Decomposing Material. International Journal of Applied Energy Systems, 2019, 1, 47-51.                                      | 0.4 | 1         |

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|-----|--|-----|-----------|
| 91  | SMART HOME AUTOMATION AND SECURITY SYSTEM DESIGN BASED ON IOT APPLICATIONS. ASEAN Engineering Journal, 2019, 9, 57-71.   | 0.3 | 4         |
| 92  | Intelligent prediction of transformer faults and severities based on dissolved gas analysis integrated with thermodynamics theory. IET Science, Measurement and Technology, 2018, 12, 388-394. | 1.6 | 43        |
| 93  | DGALab: an extensible software implementation for DGA. IET Generation, Transmission and Distribution, 2018, 12, 4117-4124.   | 2.5 | 35        |
| 94  | Prediction of insulating transformer oils breakdown voltage considering barrier effect based on artificial neural networks. Electrical Engineering, 2018, 100, 2231-2242.                      | 2.0 | 12        |
| 95  | CLASSIFICATION OF PARTIAL DISCHARGE FAULTS BASED ON SIGNAL PEAKS AND LOCATIONS. Journal of Applied Hematology, 2018, 16, .   | 0.3 | 0         |
| 96  | Conditional probability-based interpretation of dissolved gas analysis for transformer incipient faults. IET Generation, Transmission and Distribution, 2017, 11, 943-951.                     | 2.5 | 47        |
| 97  | Acoustic and Electrical Detection to Localize And Measure the Partial Discharge in High Voltage Apparatus. International Journal of Advanced Research in Engineering, 2017, 3, 22.             | 0.2 | 1         |
| 98  | Refining DGA methods of IEC Code and Rogers four ratios for transformer fault diagnosis. , 2016, , .   |     | 16        |
| 99  | Integrated ANN-based proactive fault diagnostic scheme for power transformers using dissolved gas analysis. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 1838-1845.   | 2.9 | 128       |
| 100 | Control the cost, touch and step voltages of the grounding grids design. IET Science, Measurement and Technology, 2016, 10, 943-951.   | 1.6 | 8         |
| 101 | A new approach of DGA interpretation technique for transformer fault diagnosis. International Journal of Electrical Power and Energy Systems, 2016, 81, 265-274.                               | 5.5 | 103       |
| 102 | A Fuzzy Diagnostic System for Incipient Transformer Faults Based on DGA of the Insulating Transformer Oils. International Review of Electrical Engineering, 2016, 11, 305.                     | 0.2 | 12        |
| 103 | Comparative study between dorneneburg and rogers methods for transformer fault diagnosis based on dissolved gas analysis using Matlab Simulink Tools. , 2015, , .                              |     | 6         |
| 104 | Improvement of Rogers four ratios and IEC Code methods for transformer fault diagnosis based on Dissolved Gas Analysis. , 2015, , .  |     | 11        |
| 105 | FURTHER CONTRIBUTION FOR EVALUATING THE AGING OF TRANSFORMER OIL OF POWER TRANSFORMER. JES Journal of Engineering Sciences, 2015, 43, 211-226.   | 0.1 | 1         |
| 106 | Contaminating Particle Movement in Insulating SF6 Gas in Gas Insulated Switchgear (GIS). International Journal of Electrical and Electronics Engineering, 2015, 2, 5-10.                       | 0.1 | 0         |
| 107 | Diagnostic Tool for Transformer Fault Detection Based on Dissolved Gas Analysis. IOSR Journal of Electrical and Electronics Engineering, 2014, 9, 20-26.                                       | 0.0 | 8         |
| 108 | Investigation on Using Fractal Geometry for Classification of Partial Discharge Patterns. IOSR Journal of Electrical and Electronics Engineering, 2013, 6, 50-57.                              | 0.0 | 0         |

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|-----|---|-----|-----------|
| 109 | Charge and Current Simulation Method with Boundary Element Method for Grounding System Calculations in Case of MultiLayer Soil. IOSR Journal of Engineering, 2013, 03, 14-22. | 0.1 | 1         |
| 110 | Evolutionary strategy technique to optimize the grounding grids design. , 2012, , .   |     | 3         |
| 111 | Grounding resistance, step and touch voltages for a driven vertical rod into two layer model soil. , 2010, , .  |     | 2         |
| 112 | Measurement of earth surface potential using scale model. , 2007, , .   |     | 2         |
| 113 | Optimum grounding grid design by using an evolutionary algorithm. IEEE Power Engineering Society General Meeting, 2007, , .   | 0.0 | 10        |
| 114 | Surface Potential Calculation for Grounding Grids. , 2006, , .  |     | 3         |
| 115 | Improved Design of Square Grounding Grids. , 2006, , .  |     | 5         |