# Almoataz Y Abdelaziz

List of Publications by Year
in descending order

| 288 papers | 7,466 citations | 47004<br>47 h-index | 74160<br>75 g-index |
|---|---|---|---|
| 300 all docs | 300 docs citations | 300 times ranked | 4708 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | State-of-the-art of hosting capacity in modern power systems with distributed generation. Renewable Energy, 2019, 130, 1002-1020. | 8.9 | 346 |
| 2 | Ant Lion Optimization Algorithm for optimal location and sizing of renewable distributed generations. Renewable Energy, 2017, 101, 1311-1324. | 8.9 | 256 |
| 3 | Ant Lion Optimization Algorithm for Renewable Distributed Generations. Energy, 2016, 116, 445-458. | 8.8 | 222 |
| 4 | Distribution system reconfiguration using a modified Tabu Search algorithm. Electric Power Systems Research, 2010, 80, 943-953. | 3.6 | 202 |
| 5 | Distribution Systems Reconfiguration using a modified particle swarm optimization algorithm. Electric Power Systems Research, 2009, 79, 1521-1530. | 3.6 | 179 |
| 6 | A comparison of different global MPPT techniques based on meta-heuristic algorithms for photovoltaic system subjected to partial shading conditions. Renewable and Sustainable Energy Reviews, 2017, 74, 377-386. | 16.4 | 175 |
| 7 | Combined economic and emission dispatch solution using Flower Pollination Algorithm. International Journal of Electrical Power and Energy Systems, 2016, 80, 264-274. | 5.5 | 156 |
| 8 | Cuckoo Search algorithm based load frequency controller design for nonlinear interconnected power system. International Journal of Electrical Power and Energy Systems, 2015, 73, 632-643. | 5.5 | 155 |
| 9 | Capacitor allocations in radial distribution networks using cuckoo search algorithm. IET Generation, Transmission and Distribution, 2014, 8, 223-232. | 2.5 | 152 |
| 10 | Implementation of flower pollination algorithm for solving economic load dispatch and combined economic emission dispatch problems in power systems. Energy, 2016, 101, 506-518. | 8.8 | 147 |
| 11 | Flower Pollination Algorithm and Loss Sensitivity Factors for optimal sizing and placement of capacitors in radial distribution systems. International Journal of Electrical Power and Energy Systems, 2016, 78, 207-214. | 5.5 | 147 |
| 12 | Techno-economic assessment of energy storage systems using annualized life cycle cost of storage (LCCOS) and levelized cost of energy (LCOE) metrics. Journal of Energy Storage, 2020, 29, 101345. | 8.1 | 144 |
| 13 | An adaptive protection scheme for optimal coordination of overcurrent relays. Electric Power Systems Research, 2002, 61, 1-9. | 3.6 | 125 |
| 14 | Fuzzy multi-objective placement of renewable energy sources in distribution system with objective of loss reduction and reliability improvement using a novel hybrid method. Applied Soft Computing Journal, 2019, 77, 761-779. | 7.2 | 118 |
| 15 | Whale optimization algorithm to tune PID and PIDA controllers on AVR system. Ain Shams Engineering Journal, 2019, 10, 755-767. | 6.1 | 114 |
| 16 | Improved Harmony Algorithm and Power Loss Index for optimal locations and sizing of capacitors in radial distribution systems. International Journal of Electrical Power and Energy Systems, 2016, 80, 252-263. | 5.5 | 109 |
| 17 | A Classification Technique for Recloser-Fuse Coordination in Distribution Systems With Distributed Generation. IEEE Transactions on Power Delivery, 2012, 27, 176-185. | 4.3 | 104 |
| 18 | Optimal sizing and locations of capacitors in radial distribution systems via flower pollination optimization algorithm and power loss index. Engineering Science and Technology, an International Journal, 2016, 19, 610-618. | 3.2 | 97 |

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| 19 | Equilibrium optimization algorithm for network reconfiguration and distributed generation allocation in power systems. Applied Soft Computing Journal, 2021, 98, 106867. | 7.2 | 93 |
| 20 | Optimal allocation and sizing of renewable distributed generation using ant lion optimization algorithm. Electrical Engineering, 2018, 100, 99-109. | 2.0 | 88 |
| 21 | Parameter Estimation of Three Diode Photovoltaic Model Using Grasshopper Optimization Algorithm. Energies, 2020, 13, 497. | 3.1 | 88 |
| 22 | Marine predators algorithm for load frequency control of modern interconnected power systems including renewable energy sources and energy storage units. Ain Shams Engineering Journal, 2021, 12, 3843-3857. | 6.1 | 80 |
| 23 | Optimal Placement and Sizing of Distributed Generators in Unbalanced Distribution Systems Using Supervised Big Bang-Big Crunch Method. IEEE Transactions on Power Systems, 2015, 30, 911-919. | 6.5 | 74 |
| 24 | Detailed Investigation and Performance Improvement of the Dynamic Behavior of Grid-Connected DFIG-Based Wind Turbines Under LVRT Conditions. IEEE Transactions on Industry Applications, 2018, 54, 4795-4812. | 4.9 | 74 |
| 25 | A hybrid HNN-QP approach for dynamic economic dispatch problem. Electric Power Systems Research, 2008, 78, 1784-1788. | 3.6 | 73 |
| 26 | A neural network-based scheme for fault diagnosis of power transformers. Electric Power Systems Research, 2005, 75, 29-39. | 3.6 | 72 |
| 27 | Capacitor placement for net saving maximization and system stability enhancement in distribution networks using artificial bee colony-based approach. International Journal of Electrical Power and Energy Systems, 2014, 54, 235-243. | 5.5 | 70 |
| 28 | A novel approach based on crow search algorithm for optimal selection of conductor size in radial distribution networks. Engineering Science and Technology, an International Journal, 2017, 20, 391-402. | 3.2 | 68 |
| 29 | Robust Energy Management and Economic Analysis of Microgrids Considering Different Battery Characteristics. IEEE Access, 2020, 8, 54751-54775. | 4.2 | 68 |
| 30 | Practical Considerations for Optimal Conductor Reinforcement and Hosting Capacity Enhancement in Radial Distribution Systems. IEEE Access, 2018, 6, 27268-27277. | 4.2 | 67 |
| 31 | Reliable Deep Learning and IoT-Based Monitoring System for Secure Computer Numerical Control Machines Against Cyber-Attacks With Experimental Verification. IEEE Access, 2022, 10, 23186-23197. | 4.2 | 67 |
| 32 | Efficient heuristicâ€based approach for multiâ€objective capacitor allocation in radial distribution networks. IET Generation, Transmission and Distribution, 2014, 8, 70-80. | 2.5 | 63 |
| 33 | Optimal allocation of stochastically dependent renewable energy based distributed generators in unbalanced distribution networks. Electric Power Systems Research, 2015, 119, 34-44. | 3.6 | 63 |
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| 36 | Optimal Network Reconfiguration in Active Distribution Networks with Soft Open Points and Distributed Generation. Energies, 2019, 12, 4172. | 3.1 | 57 |

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| 37 | Electrical energy management in unbalanced distribution networks using virtual power plant concept. Electric Power Systems Research, 2017, 145, 157-165. | 3.6 | 56 |
| 38 | Reconfiguration of distribution systems for loss reduction using the hyper-cube ant colony optimisation algorithm. IET Generation, Transmission and Distribution, 2012, 6, 176. | 2.5 | 55 |
| 39 | A Multi-objective Optimization for Sizing and Placement of Voltage-controlled Distributed Generation Using Supervised Big Bang–Big Crunch Method. Electric Power Components and Systems, 2015, 43, 105-117. | 1.8 | 55 |
| 40 | Flower Pollination Algorithm for Optimal Capacitor Placement and Sizing in Distribution Systems. Electric Power Components and Systems, 2016, 44, 544-555. | 1.8 | 53 |
| 41 | Flower pollination algorithm to solve combined economic and emission dispatch problems. Engineering Science and Technology, an International Journal, 2016, 19, 980-990. | 3.2 | 53 |
| 42 | Improved Harmony Algorithm for optimal locations and sizing of capacitors in radial distribution systems. International Journal of Electrical Power and Energy Systems, 2016, 79, 275-284. | 5.5 | 53 |
| 43 | Novel Control Strategy for Enhancing Microgrid Operation Connected to Photovoltaic Generation and Energy Storage Systems. Electronics (Switzerland), 2021, 10, 1261. | 3.1 | 53 |
| 44 | Artificial Bee Colony Algorithm to Allocate Fixed and Switched Static Shunt Capacitors in Radial Distribution Networks. Electric Power Components and Systems, 2014, 42, 427-438. | 1.8 | 52 |
| 45 | Optimal placement and sizing of voltage controlled distributed generators in unbalanced distribution networks using supervised firefly algorithm. International Journal of Electrical Power and Energy Systems, 2016, 82, 105-113. | 5.5 | 52 |
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| 53 | Modern approaches for protection of series compensated transmission lines. Electric Power Systems Research, 2005, 75, 85-98. | 3.6 | 46 |
| 54 | Proposed ANFIS Based Approach for Fault Tracking, Detection, Clearing and Rearrangement for Photovoltaic System. Sensors, 2021, 21, 2269. | 3.8 | 46 |

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| 55 | Dynamic performance enhancement for wind energy conversion system using Moth-Flame Optimization based blade pitch controller. Sustainable Energy Technologies and Assessments, 2018, 27, 206-212. | 2.7 | 44 |
| 56 | Load Frequency Controller Design via Artificial Cuckoo Search Algorithm. Electric Power Components and Systems, 2016, 44, 90-98. | 1.8 | 43 |
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| 64 | Enhancement of Hosting Capacity with Soft Open Points and Distribution System Reconfiguration: Multi-Objective Bilevel Stochastic Optimization. Energies, 2020, 13, 5446. | 3.1 | 32 |
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| 102 | Out-of-step prediction based on artificial neural networks. Electric Power Systems Research, 1995, 34, 135-142. | 3.6 | 16 |
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