

Edwin Rivas Trujillo

List of Publications by Year in descending order

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Version: 2024-02-01

62
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citations

393982

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63
all docs

63
docs citations

63
times ranked

457
citing authors

#	ARTICLE	IF	CITATIONS
1	Economic dispatch of energy storage systems in dc microgrids employing a semidefinite programming model. <i>Journal of Energy Storage</i> , 2019, 21, 1-8.	3.9	94
2	An energy management system for optimal operation of BSS in DC distributed generation environments based on a parallel PSO algorithm. <i>Journal of Energy Storage</i> , 2020, 29, 101488.	3.9	65
3	An exact MINLP model for optimal location and sizing of DGs in distribution networks: A general algebraic modeling system approach. <i>Ain Shams Engineering Journal</i> , 2020, 11, 409-418.	3.5	64
4	Integration of energy storage systems in AC distribution networks: Optimal location, selecting, and operation approach based on genetic algorithms. <i>Journal of Energy Storage</i> , 2019, 25, 100891.	3.9	39
5	Distribution Systems Operation Considering Energy Storage Devices and Distributed Generation. <i>IEEE Latin America Transactions</i> , 2017, 15, 890-900.	1.2	37
6	On the Efficiency in Electrical Networks with AC and DC Operation Technologies: A Comparative Study at the Distribution Stage. <i>Electronics (Switzerland)</i> , 2020, 9, 1352.	1.8	37
7	Economic Dispatch of Renewable Generators and BESS in DC Microgrids Using Second-Order Cone Optimization. <i>Energies</i> , 2020, 13, 1703.	1.6	35
8	Economic Dispatch of BESS and Renewable Generators in DC Microgrids Using Voltage-Dependent Load Models. <i>Energies</i> , 2019, 12, 4494.	1.6	33
9	A Mixed-Integer Convex Model for the Optimal Placement and Sizing of Distributed Generators in Power Distribution Networks. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 627.	1.3	32
10	Optimal Location and Sizing of PV Sources in DC Networks for Minimizing Greenhouse Emissions in Diesel Generators. <i>Symmetry</i> , 2020, 12, 322.	1.1	31
11	Efficient Operative Cost Reduction in Distribution Grids Considering the Optimal Placement and Sizing of D-STATCOMs Using a Discrete-Continuous VSA. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2175.	1.3	30
12	Vortex search and Chu-Beasley genetic algorithms for optimal location and sizing of distributed generators in distribution networks: A novel hybrid approach. <i>Engineering Science and Technology, an International Journal</i> , 2020, 23, 1351-1363.	2.0	26
13	A Hybrid Approach Based on SOCP and the Discrete Version of the SCA for Optimal Placement and Sizing DGs in AC Distribution Networks. <i>Electronics (Switzerland)</i> , 2021, 10, 26.	1.8	26
14	Optimal Design of PV Systems in Electrical Distribution Networks by Minimizing the Annual Equivalent Operative Costs through the Discrete-Continuous Vortex Search Algorithm. <i>Sensors</i> , 2022, 22, 851.	2.1	26
15	Reduction of Losses and Operating Costs in Distribution Networks Using a Genetic Algorithm and Mathematical Optimization. <i>Electronics (Switzerland)</i> , 2021, 10, 419.	1.8	25
16	Optimal Placement and Sizing of Wind Generators in AC Grids Considering Reactive Power Capability and Wind Speed Curves. <i>Sustainability</i> , 2020, 12, 2983.	1.6	24
17	Application of the Vortex Search Algorithm to the Phase-Balancing Problem in Distribution Systems. <i>Energies</i> , 2021, 14, 1282.	1.6	24
18	Relaxed convex model for optimal location and sizing of DGs in DC grids using sequential quadratic programming and random hyperplane approaches. <i>International Journal of Electrical Power and Energy Systems</i> , 2020, 115, 105442.	3.3	23

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19	Modeling and control of a small hydro-power plant for a DC microgrid. <i>Electric Power Systems Research</i> , 2020, 180, 106104.	2.1	22
20	Control of a SMES for mitigating subsynchronous oscillations in power systems: A PBC-PI approach. <i>Journal of Energy Storage</i> , 2018, 20, 163-172.	3.9	21
21	Optimal Location-Reallocation of Battery Energy Storage Systems in DC Microgrids. <i>Energies</i> , 2020, 13, 2289.	1.6	19
22	Accurate and Efficient Derivative-Free Three-Phase Power Flow Method for Unbalanced Distribution Networks. <i>Computation</i> , 2021, 9, 61.	1.0	19
23	Direct power control of electrical energy storage systems: A passivity-based PI approach. <i>Electric Power Systems Research</i> , 2019, 175, 105885.	2.1	18
24	Simultaneous Minimization of Energy Losses and Greenhouse Gas Emissions in AC Distribution Networks Using BESS. <i>Electronics (Switzerland)</i> , 2021, 10, 1002.	1.8	18
25	Optimal Integration of Photovoltaic Sources in Distribution Networks for Daily Energy Losses Minimization Using the Vortex Search Algorithm. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4418.	1.3	17
26	Optimal Investments in PV Sources for Grid-Connected Distribution Networks: An Application of the Discrete-Continuous Genetic Algorithm. <i>Sustainability</i> , 2021, 13, 13633.	1.6	17
27	A Comparative Study on Power Flow Methods for Direct-Current Networks Considering Processing Time and Numerical Convergence Errors. <i>Electronics (Switzerland)</i> , 2020, 9, 2062.	1.8	15
28	Efficient Reduction in the Annual Investment Costs in AC Distribution Networks via Optimal Integration of Solar PV Sources Using the Newton Metaheuristic Algorithm. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11525.	1.3	15
29	Improved Genetic Algorithm for Phase-Balancing in Three-Phase Distribution Networks: A Master-Slave Optimization Approach. <i>Computation</i> , 2021, 9, 67.	1.0	13
30	Black-Hole Optimization Applied to the Parametric Estimation in Distribution Transformers Considering Voltage and Current Measures. <i>Computers</i> , 2021, 10, 124.	2.1	13
31	An MI-SDP Model for Optimal Location and Sizing of Distributed Generators in DC Grids That Guarantees the Global Optimum. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7681.	1.3	11
32	A Mixed-Integer Quadratic Formulation of the Phase-Balancing Problem in Residential Microgrids. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1972.	1.3	11
33	Reduction of Annual Operational Costs in Power Systems through the Optimal Siting and Sizing of STATCOMs. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4634.	1.3	11
34	Operating Cost Reduction in Distribution Networks Based on the Optimal Phase-Swapping including the Costs of the Working Groups and Energy Losses. <i>Energies</i> , 2021, 14, 4535.	1.6	11
35	Voltage Stability Margin in DC Grids With CPLs: A Recursive Newton-Raphson Approximation. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020, 67, 300-304.	2.2	10
36	A Mixed-Integer Conic Formulation for Optimal Placement and Dimensioning of DGs in DC Distribution Networks. <i>Electronics (Switzerland)</i> , 2021, 10, 176.	1.8	10

#	ARTICLE	IF	CITATIONS
37	Optimal Demand Reconfiguration in Three-Phase Distribution Grids Using an MI-Convex Model. <i>Symmetry</i> , 2021, 13, 1124.	1.1	10
38	An Improved Crow Search Algorithm Applied to the Phase Swapping Problem in Asymmetric Distribution Systems. <i>Symmetry</i> , 2021, 13, 1329.	1.1	9
39	Sine-Cosine Algorithm for OPF Analysis in Distribution Systems to Size Distributed Generators. <i>Communications in Computer and Information Science</i> , 2019, , 28-39.	0.4	9
40	Mixed-Integer Programming Model for Transmission Network Expansion Planning with Battery Energy Storage Systems (BESS). <i>Energies</i> , 2020, 13, 4386.	1.6	8
41	Optimal Selection and Location of BESS Systems in Medium-Voltage Rural Distribution Networks for Minimizing Greenhouse Gas Emissions. <i>Electronics (Switzerland)</i> , 2020, 9, 2097.	1.8	7
42	Application of the Crow Search Algorithm to the Problem of the Parametric Estimation in Transformers Considering Voltage and Current Measures. <i>Computers</i> , 2022, 11, 9.	2.1	7
43	Optimal Allocation and Sizing of PV Generation Units in Distribution Networks via the Generalized Normal Distribution Optimization Approach. <i>Computers</i> , 2022, 11, 53.	2.1	7
44	Optimal Pole-Swapping in Bipolar DC Networks Using Discrete Metaheuristic Optimizers. <i>Electronics (Switzerland)</i> , 2022, 11, 2034.	1.8	7
45	On the Optimal Selection and Integration of Batteries in DC Grids through a Mixed-Integer Quadratic Convex Formulation. <i>Electronics (Switzerland)</i> , 2021, 10, 2339.	1.8	6
46	A Two-Stage Approach to Locate and Size PV Sources in Distribution Networks for Annual Grid Operative Costs Minimization. <i>Electronics (Switzerland)</i> , 2022, 11, 961.	1.8	6
47	An Approximate Mixed-Integer Convex Model to Reduce Annual Operating Costs in Radial Distribution Networks Using STATCOMs. <i>Electronics (Switzerland)</i> , 2021, 10, 3102.	1.8	6
48	Vulnerability Analysis to Maximize the Resilience of Power Systems Considering Demand Response and Distributed Generation. <i>Electronics (Switzerland)</i> , 2021, 10, 1498.	1.8	5
49	Approximated Mixed-Integer Convex Model for Phase Balancing in Three-Phase Electric Networks. <i>Computers</i> , 2021, 10, 109.	2.1	5
50	Quasi-Dynamic Analysis of a Local Distribution System with Distributed Generation. Study Case: The IEEE 13 Node System. <i>Tecno Lógicas</i> , 2019, 22, 195-212.	0.1	5
51	Application of the Hurricane Optimization Algorithm to Estimate Parameters in Single-Phase Transformers Considering Voltage and Current Measures. <i>Computers</i> , 2022, 11, 55.	2.1	4
52	Coordinated Control System between Grid-VSC and a DC Microgrid with Hybrid Energy Storage System. <i>Electronics (Switzerland)</i> , 2021, 10, 2699.	1.8	3
53	Application of the Hurricane-Based Optimization Algorithm to the Phase-Balancing Problem in Three-Phase Asymmetric Networks. <i>Computers</i> , 2022, 11, 43.	2.1	3
54	Application of the Multiverse Optimization Method to Solve the Optimal Power Flow Problem in Alternating Current Networks. <i>Electronics (Switzerland)</i> , 2022, 11, 1287.	1.8	3

#	ARTICLE	IF	CITATIONS
55	Black hole optimizer for the optimal power injection in distribution networks using DG. Journal of Physics: Conference Series, 2021, 2135, 012010.	0.3	2
56	On the optimal reconfiguration of radial AC distribution networks using an MINLP formulation: A GAMS-based approach. Ingenieria E Investigacion, 2022, 42, e91192.	0.2	2
57	Extraction of Polyphenols from Unripened Coffee (Coffea Arabica) Residues and Use as a Natural Coagulant for Removing Turbidity. Processes, 2022, 10, 1105.	1.3	1
58	Selection and Location of Fixed-Step Capacitor Banks in Distribution Grids for Minimization of Annual Operating Costs: A Two-Stage Approach. Computers, 2022, 11, 105.	2.1	1
59	Respuesta de la demanda en el mercado eléctrico Colombiano: modelado e implementación web. Visión Electrónica, 2018, 12, 243-251.	0.1	0
60	Incentive-based demand response: Case study. Scientia Et Technica, 2020, 25, 216-222.	0.1	0
61	Generador lineal para un generador eléctrico de baja potencia, selección, diseño y simulación en comsol multiphysic. Revista Vánculos, 2020, 17, 120-128.	0.0	0
62	Modelo de desarrollo de producto para proyectos académicos. Revista Boletín Redipe, 2022, 11, 141-155.	0.0	0