Ruben Romero

List of Publications by Year in descending order

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| 153 | 7,375 | 49 | 83 |
|----------|----------------|--------------|---------------------|
| papers | citations | h-index | g-index |
| 153 | 153 | 153 | 3590 citing authors |
| all docs | docs citations | times ranked | |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Medium-term planning of active distribution systems considering voltage-dependent loads, network reconfiguration, and CO2 emissions. International Journal of Electrical Power and Energy Systems, 2022, 135, 107541. | 3.3 | 12 |
| 2 | Multistage Planning Model for Active Distribution Systems and Electric Vehicle Charging Stations Considering Voltage-Dependent Load Behavior. IEEE Transactions on Smart Grid, 2022, 13, 1383-1397. | 6.2 | 21 |
| 3 | A Branch and Bound Algorithm for Transmission Network Expansion Planning Using Nonconvex Mixed-Integer Nonlinear Programming Models. IEEE Access, 2022, 10, 39875-39888. | 2.6 | 2 |
| 4 | Mayfly Optimization Algorithm Applied to the Design of PSS and SSSC-POD Controllers for Damping Low-Frequency Oscillations in Power Systems. International Transactions on Electrical Energy Systems, 2022, 2022, 1-23. | 1.2 | 10 |
| 5 | Increasing RES Hosting Capacity in Distribution Networks Through Closed-Loop Reconfiguration and Volt/VAr Control. IEEE Transactions on Industry Applications, 2022, 58, 4424-4435. | 3.3 | 20 |
| 6 | Alternative Mathematical Models for the Optimal Transmission Switching Problem. IEEE Systems Journal, 2021, 15, 1245-1255. | 2.9 | 14 |
| 7 | Mathematical models and optimization techniques to support local electricity markets. , 2021, , 259-276. | | O |
| 8 | Optimal Service Restoration in Active Distribution Networks Considering Microgrid Formation and Voltage Control Devices. IEEE Transactions on Industry Applications, 2021, 57, 5758-5771. | 3.3 | 18 |
| 9 | Optimal Restoration of Distribution Systems Considering Temporary Closed-Loop Operation. IEEE Systems Journal, 2021, 15, 5483-5494. | 2.9 | 12 |
| 10 | Simultaneous Distributed Generation and Electric Vehicles Hosting Capacity Assessment in Electric Distribution Systems. IEEE Access, 2021, 9, 110927-110939. | 2.6 | 26 |
| 11 | Boosting the Usage of Green Energy for EV Charging in Smart Buildings Managed by an Aggregator Through a Novel Renewable Usage Index. IEEE Access, 2021, 9, 105357-105368. | 2.6 | 13 |
| 12 | Planning of Reserve Branches to Increase Reconfiguration Capability in Distribution Systems: A Scenario-Based Convex Programming Approach. IEEE Access, 2021, 9, 104707-104721. | 2.6 | 3 |
| 13 | Optimal Restoration of Active Distribution Systems With Voltage Control and Closed-Loop Operation. IEEE Transactions on Smart Grid, 2021, 12, 2295-2306. | 6.2 | 24 |
| 14 | Secondary Reserve Provision through a Smart Aggregation Strategy of Electric Vehicles. , 2021, , . | | 3 |
| 15 | Optimal Operation of Active Distribution Systems with Voltage Control and Closed-Loop Topology. , 2021, , . | | 1 |
| 16 | Reconfiguration of Radial Distribution Systems: An Efficient Mathematical Model. IEEE Latin America Transactions, 2021, 19, 1172-1181. | 1.2 | 36 |
| 17 | LQR Design Using LMIs and the Robust D-Stability Criterion for Low-Frequency Oscillation Damping in Power Systems. , 2021, , . | | O |
| 18 | Power Flow Control and Small-Signal Stability Analysis Considering the SSSC FACTS., 2021,,. | | 1 |

| # | Article | IF | Citations |
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| 19 | Robust Control via LMIs Applied to Small-Signal Stability in Power Systems. , 2021, , . | | O |
| 20 | Robust Model Predictive Control via LMIs Applied for Damping Low-Frequency Electromechanical Oscillations in Power Systems. , 2021, , . | | 0 |
| 21 | Increasing the RES Hosting Capacity in Distribution Systems Through Reconfiguration with Closed-Loop Operation and Voltage Control., 2021,,. | | 1 |
| 22 | Increasing the PV Hosting Capacity in Unbalanced Three-Phase Distribution Networks Through Reconfiguration with Closed-Loop Operation. , 2021, , . | | 1 |
| 23 | Efficient Multi-Start With Path Relinking Search Strategy for Transmission System Expansion Planning. IEEE Access, 2021, 9, 153213-153225. | 2.6 | 2 |
| 24 | A Stochastic Model for Medium-Term Distribution System Planning Considering CO ₂ Emissions., 2020,,. | | 6 |
| 25 | Optimal Service Restoration in Active Distribution Networks Considering Microgrid Formation and Voltage Control Devices. , 2020, , . | | 1 |
| 26 | Enhanced Coordination Strategy for an Aggregator of Distributed Energy Resources Participating in the Day-Ahead Reserve Market. Energies, 2020, 13, 1965. | 1.6 | 11 |
| 27 | Transmission Network Expansion Planning Considering Line Switching. IEEE Access, 2020, 8, 115148-115158. | 2.6 | 6 |
| 28 | Assessment of economic benefits for EV owners participating in the primary frequency regulation markets. International Journal of Electrical Power and Energy Systems, 2020, 120, 105985. | 3.3 | 28 |
| 29 | Flexible Solution Approach for Multistage Transmission Network Expansion Planning with Multiple Generation Scenarios. Journal of Control, Automation and Electrical Systems, 2020, 31, 705-717. | 1.2 | 2 |
| 30 | An AC Mathematical Model for Solving Complex Restoration Problems in Radial Distribution Systems in a Treatable Runtime. IEEE Access, 2020, 8, 228303-228314. | 2.6 | 2 |
| 31 | Optimal Restoration of Distribution Networks through Reconfiguration and Microgrid Formation. , 2020, , . | | 3 |
| 32 | Line maintenance within transmission expansion planning: a multistage framework. IET Generation, Transmission and Distribution, 2019, 13, 3057-3065. | 1.4 | 38 |
| 33 | Business models for flexibility of electric vehicles. , 2019, , . | | 3 |
| 34 | Distribution System Services Provided by Electric Vehicles: Recent Status, Challenges, and Future Prospects. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 4277-4296. | 4.7 | 110 |
| 35 | A strategy for transmission network expansion planning considering multiple generation scenarios. Electric Power Systems Research, 2019, 172, 22-31. | 2.1 | 41 |
| 36 | Transmission Expansion Planning: Literature Review and Classification. IEEE Systems Journal, 2019, 13, 3129-3140. | 2.9 | 63 |

| # | Article | IF | CITATIONS |
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| 37 | Joint reconfiguration of feeders and allocation of capacitor banks in radial distribution systems considering voltage-dependent models. International Journal of Electrical Power and Energy Systems, 2019, 107, 298-310. | 3.3 | 44 |
| 38 | Mathematical Optimization of Unbalanced Networks with Smart Grid Devices. Power Systems, 2018, , 65-114. | 0.3 | 3 |
| 39 | A Real Test System For Power System Planning, Operation, and Reliability. Journal of Control, Automation and Electrical Systems, 2018, 29, 192-208. | 1.2 | 38 |
| 40 | Robust Joint Expansion Planning of Electrical Distribution Systems and EV Charging Stations. IEEE Transactions on Sustainable Energy, 2018, 9, 884-894. | 5.9 | 97 |
| 41 | Restoration of Electrical Distribution Systems Using a Relaxed Mathematical Model. Journal of Control, Automation and Electrical Systems, 2018, 29, 259-269. | 1.2 | 3 |
| 42 | Optimal Restoration/Maintenance Switching Sequence of Unbalanced Three-Phase Distribution Systems. IEEE Transactions on Smart Grid, 2018, 9, 6058-6068. | 6.2 | 66 |
| 43 | Optimal Delivery Scheduling and Charging of EVs in the Navigation of a City Map. IEEE Transactions on Smart Grid, 2018, 9, 4815-4827. | 6.2 | 47 |
| 44 | AC OPF for Smart Distribution Networks: An Efficient and Robust Quadratic Approach. IEEE Transactions on Smart Grid, 2018, 9, 4613-4623. | 6.2 | 71 |
| 45 | A VNS algorithm for the design of supplementary damping controllers for small-signal stability analysis. International Journal of Electrical Power and Energy Systems, 2018, 94, 41-56. | 3.3 | 26 |
| 46 | Specialized Heuristic Algorithms for AC Transmission Expansion Planning Problem. , 2018, , . | | 0 |
| 47 | Bus-Angle Difference Structural Cuts for Transmission System Expansion Planning with L-l Reliability. , 2018, , . | | 2 |
| 48 | Optimal Sizing of Stationary Energy Storage Systems Participating in Primary Frequency Regulation Markets., 2018,,. | | 2 |
| 49 | Biased Random-Key Genetic Algorithm Applied to the Optimal Reconfiguration of Radial Distribution Systems., 2018,,. | | 0 |
| 50 | Optimal Distribution Systems Expansion Planning for Improving Service Restoration. , 2018, , . | | 2 |
| 51 | Analysis of Optimal Power Flow Formulations for HVAC and VSC-HVDC Transmission Networks. , 2018, , . | | 1 |
| 52 | Transmission and Generation Expansion Planning Considering System Reliability and Line Maintenance. , $2018, \ldots$ | | 33 |
| 53 | A Contribution to the Optimization of the Reconfiguration Problem in Radial Distribution Systems. Journal of Control, Automation and Electrical Systems, 2018, 29, 756-768. | 1.2 | 36 |
| 54 | Joint optimal operation of photovoltaic units and electric vehicles in residential networks with storage systems: A dynamic scheduling method. International Journal of Electrical Power and Energy Systems, 2018, 103, 136-145. | 3.3 | 34 |

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| 55 | V2G enabled EVs providing frequency containment reserves: Field results. , 2018, , . | | 13 |
| 56 | Critical analysis of the transmission systems expansion planning problem considering multiple generation scenarios. , 2018, , . | | 0 |
| 57 | Optimal operation of storage systems in distribution networks considering battery degradation. , 2018, , . | | 1 |
| 58 | Multistage Security-Constrained HVAC/HVDC Transmission Expansion Planning With a Reduced Search Space. IEEE Transactions on Power Systems, 2017, 32, 4805-4817. | 4.6 | 49 |
| 59 | Highâ€performance hybrid genetic algorithm to solve transmission network expansion planning. IET Generation, Transmission and Distribution, 2017, 11, 1111-1118. | 1.4 | 19 |
| 60 | Reliability Effects of Maintenance on TNEP Considering Preventive and Corrective Repairs. IEEE Transactions on Power Systems, 2017, 32, 3768-3781. | 4.6 | 28 |
| 61 | Design of the Pl–UPFC–POD and PSS Damping Controllers Using an Artificial Bee Colony Algorithm. Journal of Control, Automation and Electrical Systems, 2017, 28, 762-773. | 1.2 | 22 |
| 62 | Metaheuristic optimization algorithms for the optimal coordination of plug-in electric vehicle charging in distribution systems with distributed generation. Electric Power Systems Research, 2017, 142, 351-361. | 2.1 | 50 |
| 63 | Increasing the hosting capacity for renewable energy in distribution networks. , 2017, , . | | 13 |
| 64 | Joint reconfiguration of feeders and allocation of capacitor banks in distribution systems using a multi-start strategy. , $2017, \ldots$ | | 2 |
| 65 | An analysis of the optimal switching problem in transmission systems. , 2017, , . | | 3 |
| 66 | Transmission network expansion planning considering HVAC/HVDC lines and technical losses., 2016,,. | | 9 |
| 67 | An MILP model for the analysis of operation of energy storage devices in distribution systems. , 2016, , . | | 5 |
| 68 | GRASP algorithm for charging coordination of plug-in electric vehicles in electrical distribution systems. , 2016, , . | | 0 |
| 69 | Artificial immune algorithm applied to distribution system reconfiguration with variable demand. International Journal of Electrical Power and Energy Systems, 2016, 82, 561-568. | 3.3 | 63 |
| 70 | Reconfiguration of Radial Distribution Systems with Variable Demands Using the Clonal Selection Algorithm and the Specialized Genetic Algorithm of Chu–Beasley. Journal of Control, Automation and Electrical Systems, 2016, 27, 689-701. | 1.2 | 10 |
| 71 | Coordinated tuning of the parameters of PI, PSS and POD controllers using a Specialized Chu–Beasley's Genetic Algorithm. Electric Power Systems Research, 2016, 140, 708-721. | 2.1 | 32 |
| 72 | MILP branch flow model for concurrent AC multistage transmission expansion and reactive power planning with security constraints. IET Generation, Transmission and Distribution, 2016, 10, 3023-3032. | 1.4 | 52 |

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| 73 | Distribution System Reconfiguration with variable demands using the Opt-aiNet algorithm. , 2016, , . | | 1 |
| 74 | A Multi-Objective Distribution System Expansion Planning Incorporating Customer Choices on Reliability. IEEE Transactions on Power Systems, 2016, 31, 1330-1340. | 4.6 | 42 |
| 75 | Reliability and Economic Effects of Maintenance on TNEP Considering Line Loading and Repair. IEEE Transactions on Power Systems, 2016, 31, 3381-3393. | 4.6 | 32 |
| 76 | An object-based visual selection framework. Neurocomputing, 2016, 180, 35-54. | 3.5 | 2 |
| 77 | A New Methodology for the Optimal Charging Coordination of Electric Vehicles Considering Vehicle-to-Grid Technology. IEEE Transactions on Sustainable Energy, 2016, 7, 596-607. | 5.9 | 71 |
| 78 | Robust Multi-Stage Substation Expansion Planning Considering Stochastic Demand. IEEE Transactions on Power Systems, 2016, 31, 2125-2134. | 4.6 | 31 |
| 79 | A New Mathematical Model for the Restoration Problem in Balanced Radial Distribution Systems. IEEE Transactions on Power Systems, 2016, 31, 1259-1268. | 4.6 | 106 |
| 80 | A matheuristic algorithm for the three-dimensional loading capacitated vehicle routing problem (3L-CVRP). Revista Facultad De IngenierÃa, 2015, , . | 0.5 | 4 |
| 81 | Optimal charging coordination of electric vehicles in unbalanced electrical distribution system considering vehicle-to-grid technology., 2015,,. | | 2 |
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| 83 | Analysis of the radial operation of distribution systems considering operation with minimal losses. International Journal of Electrical Power and Energy Systems, 2015, 67, 453-461. | 3.3 | 17 |
| 84 | A MILP model for optimal charging coordination of storage devices and electric vehicles considering V2G technology. , 2015, , . | | 2 |
| 85 | Optimal Operation of Distribution Networks Considering Energy Storage Devices. IEEE Transactions on Smart Grid, 2015, 6, 2825-2836. | 6.2 | 150 |
| 86 | Plug-in electric vehicle charging coordination in electrical distribution systems using a Tabu Search algorithm. , $2015, , .$ | | 2 |
| 87 | A Mixed-Integer Linear Programming Model for the Electric Vehicle Charging Coordination Problem in Unbalanced Electrical Distribution Systems. IEEE Transactions on Smart Grid, 2015, 6, 2200-2210. | 6.2 | 115 |
| 88 | Specialized genetic algorithm of Chu-Beasley applied to the Distribution System Reconfiguration problem considering several demand scenarios. , $2015, \ldots$ | | 2 |
| 89 | A Hybrid Heuristic and Evolutionary Algorithm for Distribution Substation Planning. IEEE Systems Journal, 2015, 9, 1396-1408. | 2.9 | 21 |
| 90 | Artificial immune networks Copt-aiNet and Opt-aiNet applied to the reconfiguration problem of radial electrical distribution systems. Electric Power Systems Research, 2015, 119, 304-312. | 2.1 | 35 |

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| 91 | Multistage transmission expansion planning considering fixed series compensation allocation. , 2014, , . | | 1 |
| 92 | An MILP model for the plug-in electric vehicle charging coordination problem in electrical distribution systems. , 2014, , . | | 11 |
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| 94 | Multistage Transmission Expansion Planning Considering Fixed Series Compensation Allocation. IEEE Transactions on Power Systems, 2013, 28, 3795-3805. | 4.6 | 38 |
| 95 | Strategies to Reduce the Number of Variables and the Combinatorial Search Space of the Multistage Transmission Expansion Planning Problem. IEEE Transactions on Power Systems, 2013, 28, 2164-2173. | 4.6 | 53 |
| 96 | Optimal Conductor Size Selection and Reconductoring in Radial Distribution Systems Using a Mixed-Integer LP Approach. IEEE Transactions on Power Systems, 2013, 28, 10-20. | 4.6 | 85 |
| 97 | Closure to Discussion on "Imposing Radiality Constraints in Distribution System Optimization Problems― IEEE Transactions on Power Systems, 2013, 28, 568-569. | 4.6 | 3 |
| 98 | A mixed-integer LP model for the optimal allocation of voltage regulators and capacitors in radial distribution systems. International Journal of Electrical Power and Energy Systems, 2013, 48, 123-130. | 3.3 | 85 |
| 99 | A mixed-integer linear programming approach for optimal type, size and allocation of distributed generation in radial distribution systems. Electric Power Systems Research, 2013, 97, 133-143. | 2.1 | 175 |
| 100 | A mixed-integer LP model for the reconfiguration of radial electric distribution systems considering distributed generation. Electric Power Systems Research, 2013, 97, 51-60. | 2.1 | 141 |
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| 102 | Specialized genetic algorithm to solve the electrical distribution system expansion planning. , 2013, , . | | 11 |
| 103 | Transmission Network Expansion Planning Considering Phase-Shifter Transformers. Journal of Electrical and Computer Engineering, 2012, 2012, 1-10. | 0.6 | 11 |
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| 106 | Imposing Radiality Constraints in Distribution System Optimization Problems. IEEE Transactions on Power Systems, 2012, 27, 172-180. | 4.6 | 408 |
| 107 | Domain Reduction Using GRASP Construction Phase for Transmission Expansion Planning Problem. Lecture Notes in Computer Science, 2012, , 87-98. | 1.0 | 3 |
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| 114 | Efficient method for AC transmission network expansion planning. Electric Power Systems Research, 2010, 80, 1056-1064. | 2.1 | 67 |
| 115 | A Constructive Heuristic Algorithm for Distribution System Planning. IEEE Transactions on Power Systems, 2010, 25, 1734-1742. | 4.6 | 97 |
| 116 | Distribution systems operation optimisation through reconfiguration and capacitor allocation by a dedicated genetic algorithm. IET Generation, Transmission and Distribution, 2010, 4, 1213. | 1.4 | 74 |
| 117 | Market-driven security-constrained Transmission Network Expansion Planning. , 2010, , . | | 3 |
| 118 | A specialized genetic algorithm to solve the short term transmission network expansion planning. , 2009, , . | | 13 |
| 119 | A Bilevel Approach to Transmission Expansion Planning Within a Market Environment. IEEE Transactions on Power Systems, 2009, 24, 1513-1522. | 4.6 | 220 |
| 120 | Planning and Projects of Secondary Electric Power Distribution Systems. IEEE Transactions on Power Systems, 2009, 24, 1599-1608. | 4.6 | 47 |
| 121 | Specialized Genetic Algorithm for Transmission Network Expansion Planning Considering Reliability. , 2009, , . | | 3 |
| 122 | Distribution network planning using a constructive heuristic algorithm., 2009,,. | | 4 |
| 123 | An Efficient Codification to Solve Distribution Network Reconfiguration for Loss Reduction Problem. IEEE Transactions on Power Systems, 2008, 23, 1542-1551. | 4.6 | 196 |
| 124 | Transmission system expansion planning by a branch-and-bound algorithm. IET Generation, Transmission and Distribution, 2008, 2, 90. | 1.4 | 77 |
| 125 | Power system transmission network expansion planning using AC model. IET Generation, Transmission and Distribution, 2007, 1, 731. | 1.4 | 182 |
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| 129 | Branch and Bound Algorithm for Transmission Network Expansion Planning Using DC Model. , 2007, , . | | 5 |
| 130 | A Metaheuristic to Solve the Transmission Expansion Planning. IEEE Transactions on Power Systems, 2007, 22, 2289-2291. | 4.6 | 72 |
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| 136 | Transmission-expansion planning using the DC model and nonlinear-programming technique. IET Generation, Transmission and Distribution, 2005, 152, 763. | 1.1 | 50 |
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| 140 | Multistage and Coordinated Planning of the Expansion of Transmission Systems. IEEE Transactions on Power Systems, 2004, 19, 735-744. | 4.6 | 182 |
| 141 | Efficient linear programming algorithm for the transmission network expansion planning problem. IET Generation, Transmission and Distribution, 2003, 150, 536. | 1.1 | 33 |
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| 143 | Test systems and mathematical models for transmission network expansion planning. IET Generation, Transmission and Distribution, 2002, 149, 27. | 1.1 | 336 |
| 144 | Optimal capacitor placement in radial distribution networks. IEEE Transactions on Power Systems, 2001, 16, 630-637. | 4.6 | 241 |

Ruben Romero

| # | Article | IF | CITATIONS |
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| 145 | Specialised branch-and-bound algorithm for transmission network expansion planning. IET Generation, Transmission and Distribution, 2001, 148, 482. | 1.1 | 61 |
| 146 | Branch and bound algorithm for transmission system expansion planning using a transportation model. IET Generation, Transmission and Distribution, 2000, 147, 149. | 1.1 | 137 |
| 147 | Tabu search algorithm for network synthesis. IEEE Transactions on Power Systems, 2000, 15, 490-495. | 4.6 | 183 |
| 148 | Transmision system expansion planning by an extended genetic algorithm. IET Generation, Transmission and Distribution, 1998, 145, 329. | 1.1 | 155 |
| 149 | Comparative studies on nonconvex optimization methods for transmission network expansion planning. IEEE Transactions on Power Systems, 1998, 13, 822-828. | 4.6 | 109 |
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| 151 | Transmission system expansion planning by simulated annealing. IEEE Transactions on Power Systems, 1996, 11, 364-369. | 4.6 | 247 |
| 152 | A zero-one implicit enumeration method for optimizing investments in transmission expansion planning. IEEE Transactions on Power Systems, 1994, 9, 1385-1391. | 4.6 | 120 |
| 153 | A hierarchical decomposition approach for transmission network expansion planning. IEEE Transactions on Power Systems, 1994, 9, 373-380. | 4.6 | 305 |