

# Miguel A Ortega-Vazquez

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

2,793  
citations

361413

20  
h-index

580821

25  
g-index

39  
all docs

39  
docs citations

39  
times ranked

2448  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Estimating the Spinning Reserve Requirements in Systems With Significant Wind Power Generation Penetration. IEEE Transactions on Power Systems, 2009, 24, 114-124.  | 6.5 | 555       |
| 2  | Optimal Operation and Services Scheduling for an Electric Vehicle Battery Swapping Station. IEEE Transactions on Power Systems, 2015, 30, 901-910.  | 6.5 | 247       |
| 3  | Optimal scheduling of electric vehicle charging and vehicle-to-grid services at household level including battery degradation and price uncertainty. IET Generation, Transmission and Distribution, 2014, 8, 1007-1016. | 2.5 | 239       |
| 4  | Electric Vehicle Aggregator/System Operator Coordination for Charging Scheduling and Services Procurement. IEEE Transactions on Power Systems, 2013, 28, 1806-1815.   | 6.5 | 201       |
| 5  | Optimizing the Spinning Reserve Requirements Using a Cost/Benefit Analysis. IEEE Transactions on Power Systems, 2007, 22, 24-33.  | 6.5 | 199       |
| 6  | Optimal Participation of an Electric Vehicle Aggregator in Day-Ahead Energy and Reserve Markets. IEEE Transactions on Power Systems, 2016, 31, 3506-3515.   | 6.5 | 178       |
| 7  | Optimal Coordination and Scheduling of Demand Response via Monetary Incentives. IEEE Transactions on Smart Grid, 2015, 6, 1341-1352.  | 9.0 | 176       |
| 8  | A Hybrid Stochastic/Interval Approach to Transmission-Constrained Unit Commitment. IEEE Transactions on Power Systems, 2015, 30, 621-631.   | 6.5 | 122       |
| 9  | Assessing flexibility requirements in power systems. IET Generation, Transmission and Distribution, 2014, 8, 1820-1830.   | 2.5 | 106       |
| 10 | Assessing the Impact of Wind Power Generation on Operating Costs. IEEE Transactions on Smart Grid, 2010, 1, 295-301.  | 9.0 | 94        |
| 11 | Participation of an Energy Storage Aggregator in Electricity Markets. IEEE Transactions on Smart Grid, 2019, 10, 1171-1183.   | 9.0 | 71        |
| 12 | Co-Optimization of Distribution Transformer Aging and Energy Arbitrage Using Electric Vehicles. IEEE Transactions on Smart Grid, 2017, 8, 2712-2722.  | 9.0 | 60        |
| 13 | Optimal operation of aggregated electric vehicle charging stations coupled with energy storage. IET Generation, Transmission and Distribution, 2018, 12, 1127-1136.   | 2.5 | 54        |
| 14 | Optimal Carbon Taxes for Emissions Targets in the Electricity Sector. IEEE Transactions on Power Systems, 2018, 33, 5892-5901.  | 6.5 | 54        |
| 15 | Planning Low-Carbon Campus Energy Hubs. IEEE Transactions on Power Systems, 2019, 34, 1895-1907.  | 6.5 | 54        |
| 16 | Optimal operation of a battery energy storage system: Trade-off between grid economics and storage health. Electric Power Systems Research, 2017, 152, 342-349.   | 3.6 | 51        |
| 17 | Electric vehicle battery swapping station: Business case and optimization model. , 2013, ,  |     | 45        |
| 18 | Probabilistic Security-Constrained Unit Commitment With Generation and Transmission Contingencies. IEEE Transactions on Power Systems, 2017, 32, 228-239.   | 6.5 | 44        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Decentralized Coordination of a Building Manager and an Electric Vehicle Aggregator. IEEE Transactions on Smart Grid, 2018, 9, 2625-2637.                            | 9.0 | 39        |
| 20 | Optimal Penetration of Home Energy Management Systems in Distribution Networks Considering Transformer Aging. IEEE Transactions on Smart Grid, 2018, 9, 3330-3340.   | 9.0 | 34        |
| 21 | Should the spinning reserve procurement in systems with wind power generation be deterministic or probabilistic?. , 2009, , .  |     | 23        |
| 22 | Robust allocation of reserves considering different reserve types and the flexibility from HVDC. IET Generation, Transmission and Distribution, 2017, 11, 1472-1478. | 2.5 | 20        |
| 23 | Incorporating energy storage into probabilistic security-constrained unit commitment. IET Generation, Transmission and Distribution, 2018, 12, 4206-4215.            | 2.5 | 20        |
| 24 | Pricing Chance Constraints in Electricity Markets. IEEE Transactions on Power Systems, 2018, 33, 4634-4636.  | 6.5 | 16        |
| 25 | Incorporating a Nodal Reactive Power Pricing Scheme Into the DisCo's Short-Term Operation. IEEE Transactions on Smart Grid, 2019, 10, 3720-3731.                     | 9.0 | 14        |
| 26 | Statistical characterization of electric vehicle charging in different locations of the grid. , 2015, , .  |     | 13        |
| 27 | Increasing the hosting capacity for renewable energy in distribution networks. , 2017, , .   |     | 13        |
| 28 | Assessment of generation expansion mechanisms using multi-agent systems. , 2008, , .   |     | 10        |
| 29 | Tractable and Robust Modeling of Building Flexibility Using Coarse Data. IEEE Transactions on Power Systems, 2018, 33, 5456-5468.                                    | 6.5 | 7         |
| 30 | Short-term operation of a distribution company: A pseudo-dynamic tabu search-based optimisation. IET Generation, Transmission and Distribution, 2018, 12, 2995-3004. | 2.5 | 7         |
| 31 | Optimal investment strategy in photovoltaics and energy storage for commercial buildings. , 2015, , .  |     | 5         |
| 32 | Security provision in systems with large penetration of wind power generation. , 2010, , .   |     | 4         |
| 33 | Assessment of N-k contingencies in a probabilistic security-constrained optimal power flow. , 2016, , .  |     | 4         |
| 34 | Optimal Power Flow with Voltage-Sensitive Loads in Distribution Networks. , 2016, , .  |     | 4         |
| 35 | Generation investment evaluation under uncertainty in a competitive environment. , 2010, , .   |     | 3         |
| 36 | Optimal short-term operation of a DisCo including voltage-sensitive loads. , 2016, , .   |     | 3         |

| #  | ARTICLE  | IF | CITATIONS |
|----|--|----|-----------|
| 37 | Risk-Based Reserve Procurement. , 2020, , .  |    | 3         |
| 38 | Generation of Multi-Resolution Scenarios of Stochastic Variables for Operation Planning Studies. , 2022, , . |    | 0         |