Emilio PÃ©rez

List of Publications by Year
in descending order

26	480	840776 11	940533 16
papers	citations	h-index	g-index

28	28	28	590
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of the Intraday Electricity Market Structure on the Degradation of Liâ€Ion Batteries Used to Firm Photovoltaic Production. Energy Technology, 2022, 10, .	3.8	5
2	Deep learning-based forecasting of aggregated CSP production. Mathematics and Computers in Simulation, 2021, 184, 306-318.	4.4	12
3	Optimized profitability of LFP and NMC Li-ion batteries in residential PV applications. Mathematics and Computers in Simulation, 2021, 183, 97-115.	4.4	19
4	Battery size determination for photovoltaic capacity firming using deep learning irradiance forecasts. Journal of Energy Storage, 2021, 33, 102036.	8.1	16
5	A deep learning model for intra-day forecasting of solar irradiance using satellite-based estimations in the vicinity of a PV power plant. Solar Energy, 2021, 218, 652-660.	6.1	33
6	Aggregated demand analysis and forescasting methodology for the Iberian Electricity Market. , 2020, , .		0
7	Lifetime Expectancy of Li-Ion Batteries used for Residential Solar Storage. Energies, 2020, 13, 568.	3.1	33
8	Levelized Cost of Storage for Li-Ion Batteries Used in PV Power Plants for Ramp-Rate Control. IEEE Transactions on Energy Conversion, 2019, 34, 554-561.	5.2	31
9	Optimized battery sizing for merchant solar PV capacity firming in different electricity markets. , 2019, , .		4
10	Optimized management of a residential microgrid using a solar power estimation database. , 2017, , .		1
11	Asymptotically exact stabilisation for constrained discrete Takagiâ€“Sugeno systems via set-invariance. Fuzzy Sets and Systems, 2017, 316, 117-138.	2.7	19
12	Ageing of different types of batteries when enabling a PV power plant to enter electricity markets. , 2016, , .		8
13	Optimization Algorithm for Selective Compensation in a Shunt Active Power Filter. IEEE Transactions on Industrial Electronics, 2014, , 1-1.	7.9	30
14	Model Predictive Control for discrete fuzzy systems via iterative quadratic programming. , 2014, , .		6
15	Polytopic invariant and contractive sets for closed-loop discrete fuzzy systems. Journal of the Franklin Institute, 2014, 351, 3559-3576.	3.4	18
16	Daily Solar Energy Estimation for Minimizing Energy Storage Requirements in PV Power Plants. IEEE Transactions on Sustainable Energy, 2013, 4, 474-481.	8.8	72
17	Predictive Power Control for PV Plants With Energy Storage. IEEE Transactions on Sustainable Energy, 2013, 4, 482-490.	8.8	138
18	Robust polytopic invariant sets for discrete fuzzy control systems. , 2013, , .		3

#	ARTICLE	IF	CITATIONS
19	Explicit predictive control with non-convex polyhedral constraints. Automatica, 2012, 48, 419-424.	5.0	1
20	Maximal closed loop admissible set for linear systems with non-convex polyhedral constraints. Journal of Process Control, 2011, 21, 529-537.	3.3	11
21	Guaranteed cost control analysis and iterative design for constrained Takagiâ€“Sugeno systems. Engineering Applications of Artificial Intelligence, 2010, 23, 1420-1427.	8.1	15
22	Guaranteed Cost Control For Constrained Takagi-Sugeno Fuzzy Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 325-330.	0.4	0
23	Improved Kalman filter based inverter control for reduction of low order current harmonics due to isolation transformers in renewable energy sources. Renewable Energy and Power Quality Journal, 2009, 1, 254-259.	0.2	4
24	Current control of distributed generation power inverters for losses reduction in the distribution network. Renewable Energy and Power Quality Journal, 2008, 1, 202-206.	0.2	0
25	Comparative Study of Current Controllers for Shunt Active Power Compensators used in Smart Grids Applications. Renewable Energy and Power Quality Journal, 0, , 256-261.	0.2	1
26	Influence of the State-of-Charge Control on the Size of the Energy Storage Systems. Renewable Energy and Power Quality Journal, 0, 1, 122-127.	0.2	0