

# Emilio PÃ©rez

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1660825/publications.pdf>

Version: 2024-02-01

26  
papers

480  
citations

840776

11  
h-index

940533

16  
g-index

28  
all docs

28  
docs citations

28  
times ranked

590  
citing authors

#	ARTICLE	IF	CITATIONS
1	Predictive Power Control for PV Plants With Energy Storage. IEEE Transactions on Sustainable Energy, 2013, 4, 482-490.	8.8	138
2	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
3	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
4	Lifetime Expectancy of Li-Ion Batteries used for Residential Solar Storage. Energies, 2020, 13, 568.	3.1	33
5	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
6	Optimization Algorithm for Selective Compensation in a Shunt Active Power Filter. IEEE Transactions on Industrial Electronics, 2014, , 1-1.	7.9	30
7	Asymptotically exact stabilisation for constrained discrete Takagi-Sugeno systems via set-invariance. Fuzzy Sets and Systems, 2017, 316, 117-138.	2.7	19
8	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
9	Polytopic invariant and contractive sets for closed-loop discrete fuzzy systems. Journal of the Franklin Institute, 2014, 351, 3559-3576.	3.4	18
10	Battery size determination for photovoltaic capacity firming using deep learning irradiance forecasts. Journal of Energy Storage, 2021, 33, 102036.	8.1	16
11	Guaranteed cost control analysis and iterative design for constrained Takagi-Sugeno systems. Engineering Applications of Artificial Intelligence, 2010, 23, 1420-1427.	8.1	15
12	Deep learning-based forecasting of aggregated CSP production. Mathematics and Computers in Simulation, 2021, 184, 306-318.	4.4	12
13	Maximal closed loop admissible set for linear systems with non-convex polyhedral constraints. Journal of Process Control, 2011, 21, 529-537.	3.3	11
14	Ageing of different types of batteries when enabling a PV power plant to enter electricity markets. , 2016, , .		8
15	Model Predictive Control for discrete fuzzy systems via iterative quadratic programming. , 2014, , .		6
16	Influence of the Intraday Electricity Market Structure on the Degradation of Li-Ion Batteries Used to Firm Photovoltaic Production. Energy Technology, 2022, 10, .	3.8	5
17	Optimized battery sizing for merchant solar PV capacity firming in different electricity markets. , 2019, , .		4
18	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

#	ARTICLE	IF	CITATIONS
19	Robust polytopic invariant sets for discrete fuzzy control systems. , 2013, , .		3
20	Explicit predictive control with non-convex polyhedral constraints. Automatica, 2012, 48, 419-424.	5.0	1
21	Optimized management of a residential microgrid using a solar power estimation database. , 2017, , .		1
22	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
23	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
24	Aggregated demand analysis and forecasting methodology for the Iberian Electricity Market. , 2020, , .		0
25	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
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