

Carlos Batlle

List of Publications by Year in descending order

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52
papers

1,722
citations

331670

21
h-index

289244

40
g-index

53
all docs

53
docs citations

53
times ranked

1390
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of the value of aggregators in electricity systems. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 77, 395-405.	16.4	187
2	Impacts of Intermittent Renewables on Electricity Generation System Operation. <i>Economics of Energy and Environmental Policy</i> , 2012, 1, .	1.4	159
3	From distribution networks to smart distribution systems: Rethinking the regulation of European electricity DSOs. <i>Utilities Policy</i> , 2014, 31, 229-237.	4.0	146
4	Regulatory design for RES-E support mechanisms: Learning curves, market structure, and burden-sharing. <i>Energy Policy</i> , 2012, 41, 212-220.	8.8	114
5	Emergency measures to protect energy consumers during the Covid-19 pandemic: A global review and critical analysis. <i>Energy Research and Social Science</i> , 2020, 68, 101678.	6.4	104
6	A simulation model for a competitive generation market. <i>IEEE Transactions on Power Systems</i> , 2000, 15, 250-256.	6.5	75
7	Design criteria for implementing a capacity mechanism in deregulated electricity markets. <i>Utilities Policy</i> , 2008, 16, 184-193.	4.0	71
8	A critical assessment of the different approaches aimed to secure electricity generation supply. <i>Energy Policy</i> , 2010, 38, 7169-7179.	8.8	61
9	An Enhanced Screening Curves Method for Considering Thermal Cycling Operation Costs in Generation Expansion Planning. <i>IEEE Transactions on Power Systems</i> , 2013, 28, 3683-3691.	6.5	61
10	A method for allocating renewable energy source subsidies among final energy consumers. <i>Energy Policy</i> , 2011, 39, 2586-2595.	8.8	51
11	National capacity mechanisms in the European internal energy market: Opening the doors to neighbours. <i>Energy Policy</i> , 2015, 82, 38-47.	8.8	47
12	A Strategic Production Costing Model for Electricity Market Price Analysis. <i>IEEE Transactions on Power Systems</i> , 2005, 20, 67-74.	6.5	44
13	Enhancing power supply adequacy in Spain: Migrating from capacity payments to reliability options. <i>Energy Policy</i> , 2007, 35, 4545-4554.	8.8	44
14	Performance Incentives in Capacity Mechanisms: Conceptual Considerations and Empirical Evidence. <i>Economics of Energy and Environmental Policy</i> , 2017, 6, .	1.4	42
15	Electricity market-clearing prices and investment incentives: The role of pricing rules. <i>Energy Economics</i> , 2015, 47, 42-51.	12.1	40
16	Security of electricity supply at the generation level: Problem analysis. <i>Energy Policy</i> , 2012, 40, 177-185.	8.8	38
17	Electricity auctions in South America: Towards convergence of system adequacy and RES-E support. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 40, 375-385.	16.4	37
18	The changing role of the State in the expansion of electricity supply in Latin America. <i>Energy Policy</i> , 2010, 38, 7152-7160.	8.8	34

#	ARTICLE	IF	CITATIONS
19	Revisiting support policies for RES-E adulthood: Towards market compatible schemes. Energy Policy, 2017, 104, 474-483.	8.8	31
20	A model-based analysis on the impact of explicit penalty schemes in capacity mechanisms. Applied Energy, 2016, 168, 406-417.	10.1	25
21	The Italian capacity remuneration mechanism: Critical review and open questions. Energy Policy, 2018, 123, 659-669.	8.8	25
22	Modeling the Major Overhaul Cost of Gas-Fired Plants in the Unit Commitment Problem. IEEE Transactions on Power Systems, 2014, 29, 1001-1011.	6.5	21
23	Reforming the colombian electricity market for an efficient integration of renewables: A proposal. Energy Policy, 2020, 139, 111346.	8.8	21
24	The Regulatory Debate About Energy Storage Systems: State of the Art and Open Issues. IEEE Power and Energy Magazine, 2017, 15, 42-50.	1.6	19
25	Redesigning residual cost allocation in electricity tariffs: A proposal to balance efficiency, equity and cost recovery. Renewable Energy, 2020, 155, 257-266.	8.9	19
26	Enhancing Intraday Price Signals in U.S. ISO Markets for a Better Integration of Variable Energy Resources. Energy Journal, 2018, 39, .	1.7	19
27	Restructuring Revisited Part 2: Coordination in Electricity Distribution Systems. Energy Journal, 2019, 40, 55-76.	1.7	17
28	Fuel prices scenario generation based on a multivariate GARCH model for risk analysis in a wholesale electricity market. International Journal of Electrical Power and Energy Systems, 2004, 26, 273-280.	5.5	16
29	A regulatory framework for an evolving electricity sector: Highlights of the MIT utility of the future study. Economics of Energy and Environmental Policy, 2017, 6, .	1.4	15
30	Residual demand models for strategic bidding in European power exchanges: Revisiting the methodology in the presence of a large penetration of renewables. Electric Power Systems Research, 2014, 108, 178-184.	3.6	14
31	Evolving Bidding Formats and Pricing Schemes in USA and Europe Day-Ahead Electricity Markets. Energies, 2020, 13, 5020.	3.1	14
32	Restructuring Revisited Part 1: Competition in Electricity Distribution Systems. Energy Journal, 2019, 40, 31-54.	1.7	11
33	Modeling generation expansion in the context of a security of supply mechanism based on long-term auctions. Application to the Colombian case. Energy Policy, 2011, 39, 176-186.	8.8	9
34	De-rating of wind and solar resources in capacity mechanisms: A review of international experiences. Renewable and Sustainable Energy Reviews, 2019, 112, 253-262.	16.4	9
35	Toward a Fuller Integration of the EU Electricity Market: Physical or Financial Transmission Rights?. Electricity Journal, 2014, 27, 8-17.	2.5	8
36	Hydro resource management, risk aversion and equilibrium in an incomplete electricity market setting. Energy Economics, 2015, 51, 365-382.	12.1	8

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37	Markets for Efficient Decarbonization: Revisiting Market Regulation and Design. IEEE Power and Energy Magazine, 2021, 19, 20-28.	1.6	8
38	Adjusting the aim of capacity mechanisms: Future-proof reliability metrics and firm supply calculations. Energy Policy, 2022, 164, 112891.	8.8	8
39	Emission rights allocation criteria. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	7
40	Electricity Generation and Wholesale Markets. Power Systems, 2013, , 341-395.	0.5	7
41	Power transmission regulation in a liberalised context: An analysis of innovative solutions in South American markets. Utilities Policy, 2015, 33, 1-9.	4.0	6
42	A review of key points of an industrial biogas plant. A European perspective. , 2012, , .		5
43	Intermittent RES-E, cycling and spot prices: The role of pricing rules. Electric Power Systems Research, 2015, 121, 134-144.	3.6	5
44	The Balancing Market Maker: A Tool to Enhance Liquidity in the French Balancing Mechanism. Electricity Journal, 2007, 20, 76-86.	2.5	4
45	A New Security of Supply Mechanism for the Iberian Market. Electricity Journal, 2008, 21, 63-73.	2.5	3
46	The evolution of electricity auctions in South America. Energy Sources, Part B: Economics, Planning and Policy, 2016, 11, 1103-1110.	3.4	3
47	Environmental Regulation. Power Systems, 2013, , 539-579.	0.5	2
48	Security of Generation Supply in Electricity Markets. Power Systems, 2013, , 581-622.	0.5	2
49	Electricity forward and volatility curves computation based on Monte Carlo simulation. , 2006, , .		1
50	Carlos Batlle replies:. Electricity Journal, 2007, 20, 5-6.	2.5	1
51	Electricity Retailing. Power Systems, 2013, , 443-499.	0.5	1
52	Self-fulfilling or self-destroying prophecy? The relevance of de-rating factors in modern capacity mechanisms. Applied Energy, 2022, 314, 118939.	10.1	0