

# Anastasios G Bakirtzis

## List of Publications by Year in descending order

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139  
papers

7,820  
citations

61984

43  
h-index

51608

86  
g-index

139  
all docs

139  
docs citations

139  
times ranked

5153  
citing authors

#	ARTICLE	IF	CITATIONS
1	A methodological approach for assessing the value of energy storage in the power system operation by mid-term simulation. <i>Journal of Energy Storage</i> , 2022, 49, 104066.	8.1	3
2	Optimal participation of RES aggregators in electricity markets under main imbalance pricing schemes: Price taker and price maker approach. <i>Electric Power Systems Research</i> , 2022, 206, 107786.	3.6	5
3	Market-based TSO-DSO coordination for enhanced flexibility services provision. <i>Electric Power Systems Research</i> , 2022, 208, 107883.	3.6	19
4	Power system flexibility: A methodological analytical framework based on unit commitment and economic dispatch modelling. , 2021, , 127-156.		3
5	Optimal Participation of RES Aggregators in Electricity Markets Under Main Imbalance Pricing Mechanisms. , 2021, , .		1
6	A Stochastic Two-Stage Model for the Integrated Scheduling of the Electric and Natural Gas Systems. <i>IEEE Open Access Journal of Power and Energy</i> , 2020, 7, 453-466.	3.4	5
7	A Multi-Objective Optimization Approach to Risk-Constrained Energy and Reserve Procurement Using Demand Response. <i>IEEE Transactions on Power Systems</i> , 2018, 33, 3940-3954.	6.5	58
8	Storage management by rolling stochastic unit commitment for high renewable energy penetration. <i>Electric Power Systems Research</i> , 2018, 158, 240-249.	3.6	35
9	Probabilistic evaluation of the long-term power system resource adequacy: The Greek case. <i>Energy Policy</i> , 2018, 117, 295-306.	8.8	16
10	Quantitative Risk Management by Demand Response in Distribution Networks. <i>IEEE Transactions on Power Systems</i> , 2018, 33, 1496-1506.	6.5	18
11	Demand Response Management by Rolling Unit Commitment for High Renewable Energy Penetration. , 2018, , .		2
12	Optimal Bidding of Hybrid Power Stations in Insular Power Systems. <i>IEEE Transactions on Power Systems</i> , 2017, 32, 3782-3793.	6.5	15
13	Effect of Risk Aversion on Reserve Procurement With Flexible Demand Side Resources From the ISO Point of View. <i>IEEE Transactions on Sustainable Energy</i> , 2017, 8, 1040-1050.	8.8	16
14	Storage management by rolling unit commitment for high renewable energy penetration. , 2017, , .		2
15	An integrated simulation platform for assessing the integration of plug-in electric vehicles in electricity markets. , 2017, , .		1
16	High-level design for the compliance of the Greek wholesale electricity market with the Target Model provisions in Europe. <i>Electric Power Systems Research</i> , 2017, 152, 323-341.	3.6	12
17	Plug-In Electric Vehicles Parking Lot Equilibria With Energy and Reserve Markets. <i>IEEE Transactions on Power Systems</i> , 2017, 32, 2001-2016.	6.5	76
18	An Investigation of Plug-In Electric Vehicle Charging Impact on Power Systems Scheduling and Energy Costs. <i>IEEE Transactions on Power Systems</i> , 2017, 32, 1902-1912.	6.5	71

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19	Optimal bidding for risk-averse hybrid power station producers in insular power systems: An MPEC approach. , 2017, , .		3
20	Stochastic and Deterministic Unit Commitment Considering Uncertainty and Variability Reserves for High Renewable Integration. Energies, 2017, 10, 140.	3.1	33
21	Hydrothermal Producer Self-Scheduling. , 2017, , 263-326.		0
22	European day-ahead electricity market clearing model. Electric Power Systems Research, 2016, 140, 225-239.	3.6	46
23	The impact of load-following reserve requirement levels on the short-term generation scheduling. , 2016, , .		4
24	European day-ahead market clearing model incorporating linearized AC power flow constraints. , 2016, , .		1
25	A nodal-based day-ahead market clearing with multi-period products and transmission security constraints. , 2016, , .		0
26	Assessment of Demand-Response-Driven Load Pattern Elasticity Using a Combined Approach for Smart Households. IEEE Transactions on Industrial Informatics, 2016, 12, 1529-1539.	11.3	82
27	Multi-Objective Reconfiguration of Radial Distribution Systems Using Reliability Indices. IEEE Transactions on Power Systems, 2016, 31, 1048-1062.	6.5	116
28	Coordinated Operation of a Neighborhood of Smart Households Comprising Electric Vehicles, Energy Storage and Distributed Generation. IEEE Transactions on Smart Grid, 2016, 7, 2736-2747.	9.0	175
29	Stochastic Scheduling of Hybrid Power Stations in Insular Power Systems With High Wind Penetration. IEEE Transactions on Power Systems, 2016, 31, 3424-3436.	6.5	46
30	ANN-based scenario generation methodology for stochastic variables of electric power systems. Electric Power Systems Research, 2016, 134, 9-18.	3.6	79
31	Guest Editorial Special Section on Reserve and Flexibility for Handling Variability and Uncertainty of Renewable Generation. IEEE Transactions on Sustainable Energy, 2016, 7, 613-613.	8.8	0
32	Optimal operation of insular electricity grids under high RES penetration. Renewable Energy, 2016, 86, 1308-1316.	8.9	24
33	Qualification and quantification of reserves in power systems under high wind generation penetration considering demand response. , 2015, , .		0
34	Security-constrained nodal-based clearing of the European day-ahead electricity market formulated as a MILP model. , 2015, , .		3
35	Optimal Household Appliances Scheduling Under Day-Ahead Pricing and Load-Shaping Demand Response Strategies. IEEE Transactions on Industrial Informatics, 2015, 11, 1509-1519.	11.3	341
36	Dynamic reserves quantification for variable time resolution scheduling. , 2015, , .		3

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37	An EMD-ANN based prediction methodology for DR driven smart household load demand. , 2015, , .		1
38	Artificial neural network-based methodology for short-term electric load scenario generation. , 2015, , .		4
39	Evaluation of load-following reserves for power systems with significant RES penetration considering risk management. , 2015, , .		4
40	Load-Following Reserves Procurement Considering Flexible Demand-Side Resources Under High Wind Power Penetration. IEEE Transactions on Power Systems, 2015, 30, 1337-1350.	6.5	66
41	A new perspective for sizing of distributed generation and energy storage for smart households under demand response. Applied Energy, 2015, 143, 26-37.	10.1	142
42	Comparison of advanced power system operations models for large-scale renewable integration. Electric Power Systems Research, 2015, 128, 90-99.	3.6	16
43	Optimal Offering Strategy of a Virtual Power Plant: A Stochastic Bi-Level Approach. IEEE Transactions on Smart Grid, 2015, , 1-1.	9.0	151
44	Real-Time Charging Management Framework for Electric Vehicle Aggregators in a Market Environment. IEEE Transactions on Smart Grid, 2015, , 1-1.	9.0	75
45	Stochastic day-ahead scheduling of thermal and hybrid units in insular power systems with high wind penetration. , 2015, , .		4
46	Bidding strategy for risk-averse producers in transmission-constrained electricity markets. , 2015, , .		2
47	Benefits of demand response on a wind power producer bidding strategy. , 2015, , .		1
48	Assessment of load shifting potential on large insular power systems. , 2015, , .		1
49	Qualification and Quantification of Reserves in Power Systems Under High Wind Generation Penetration Considering Demand Response. IEEE Transactions on Sustainable Energy, 2015, 6, 88-103.	8.8	37
50	Smart Household Operation Considering Bi-Directional EV and ESS Utilization by Real-Time Pricing-Based DR. IEEE Transactions on Smart Grid, 2015, 6, 1281-1291.	9.0	373
51	Scheduling Models and Methods for Efficient and Reliable Operations. , 2015, , 155-224.		0
52	Integration of a hybrid power station in the insular power system of Crete. , 2014, , .		2
53	Hydrothermal producer offering strategy in a transmission-constrained electricity market: An MPEC approach. , 2014, , .		3
54	Optimal bidding strategies of a mixed RES portfolio by stochastic programming. , 2014, , .		2

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55	Implementation methods for the European day-ahead electricity market integration. , 2014, , .		1
56	Financial viability of investments on electric vehicle charging stations in workplaces with parking lots under flat rate retail tariff schemes. , 2014, , .		5
57	Assessment of the impact of a battery energy storage system on the scheduling and operation of the insular power system of Crete. , 2014, , .		4
58	An ANFIS based assessment of demand response driven load pattern elasticity. , 2014, , .		1
59	European Electricity Market Integration With Mixed Market Designsâ€™Part I: Formulation. IEEE Transactions on Power Systems, 2014, 29, 458-465.	6.5	72
60	Determination of load-following reserves in power systems with high wind penetration: An application to the Greek power system. , 2014, , .		1
61	Multi-objective optimization of radial distribution networks using an effective implementation of the &#x03B5;-constraint method. , 2014, , .		0
62	Reserve quantification in insular power systems with high wind penetration. , 2014, , .		8
63	Coordination of smart-household activities for the efficient operation of intelligent distribution systems. , 2014, , .		9
64	Optimum Generation Scheduling Based Dynamic Price Making for Demand Response in a Smart Power Grid. IFIP Advances in Information and Communication Technology, 2014, , 371-379.	0.7	1
65	Multiple Time Resolution Unit Commitment for Short-Term Operations Scheduling Under High Renewable Penetration. IEEE Transactions on Power Systems, 2014, 29, 149-159.	6.5	79
66	Optimal bidding strategy in transmission-constrained electricity markets. Electric Power Systems Research, 2014, 109, 141-149.	3.6	73
67	Electricity market models and RES integration: The Greek case. Energy Policy, 2014, 67, 531-542.	8.8	20
68	Power flow calculations for small distribution networks under time-dependent and uncertain input data. , 2014, , .		3
69	An advanced model for the efficient and reliable short-term operation of insular electricity networks with high renewable energy sources penetration. Renewable and Sustainable Energy Reviews, 2014, 38, 415-427.	16.4	28
70	European Electricity Market Integration With Mixed Market Designsâ€™Part II: Solution Algorithm and Case Studies. IEEE Transactions on Power Systems, 2014, 29, 466-475.	6.5	34
71	A unified unit commitment &#x2014; Economic dispatch model for short-term power system scheduling under high wind energy penetration. , 2014, , .		10
72	Optimal Bidding Strategy for Electric Vehicle Aggregators in Electricity Markets. IEEE Transactions on Power Systems, 2013, 28, 4031-4041.	6.5	355

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73	A market splitting approach for the European electricity market integration. , 2013, , .		1
74	Evaluation of the capacity credit of RES: The Greek case. , 2013, , .		5
75	Risk-constrained scheduling and offering strategies of a price-taker hydro producer under uncertainty. , 2013, , .		0
76	Market coupling feasibility between a power pool and a power exchange. Electric Power Systems Research, 2013, 104, 116-128.	3.6	13
77	Short-Term Electricity Market Simulation for Pool-Based Multi-Period Auctions. IEEE Transactions on Power Systems, 2013, 28, 2526-2535.	6.5	24
78	Risk-Constrained Scheduling and Offering Strategies of a Price-Maker Hydro Producer Under Uncertainty. IEEE Transactions on Power Systems, 2013, 28, 1879-1887.	6.5	51
79	Impact of natural gas supply, renewable penetration and demand trends on power system maintenance. , 2013, , .		1
80	European electricity market integration under various network representations. , 2013, , .		2
81	European Market Integration With Mixed Network Representation Schemes. IEEE Transactions on Power Systems, 2013, 28, 4957-4967.	6.5	10
82	Guest Editorial: Introduction to the special section on real-time demand response. IEEE Transactions on Smart Grid, 2013, 4, 1841-1841.	9.0	5
83	Price-based annual generation maintenance scheduling of a thermal producer. , 2012, , .		3
84	Volume-coupling between a power pool and a power exchange. , 2012, , .		0
85	Optimal Self-Scheduling of Thermal Units During Commissioning. IEEE Transactions on Power Systems, 2012, 27, 181-188.	6.5	3
86	Optimal self-scheduling of a dominant power company in electricity markets. International Journal of Electrical Power and Energy Systems, 2012, 43, 640-649.	5.5	24
87	Evaluation of the impact of RES integration on the Greek electricity market by mid-term simulation. , 2011, , .		6
88	A profit maximization model for a power producer in a pool-based energy market with cost recovery mechanism. , 2011, , .		6
89	Mid-Term Stochastic Scheduling of a Price-Maker Hydro Producer With Pumped Storage. IEEE Transactions on Power Systems, 2011, 26, 1856-1865.	6.5	76
90	Transmission loss allocation through zonal aggregation. Electric Power Systems Research, 2011, 81, 1973-1985.	3.6	4

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91	Selective Automation Upgrade in Distribution Networks Towards a Smarter Grid. IEEE Transactions on Smart Grid, 2010, 1, 278-285.	9.0	53
92	Cost/worth assessment of reliability improvement in distribution networks by means of artificial intelligence. International Journal of Electrical Power and Energy Systems, 2010, 32, 530-538.	5.5	36
93	Optimal Self-Scheduling of a Thermal Producer in Short-Term Electricity Markets by MILP. IEEE Transactions on Power Systems, 2010, 25, 1965-1977.	6.5	147
94	Coordination of day-ahead scheduling with a stochastic weekly unit commitment for the efficient scheduling of slow-start thermal units. , 2010, , .		4
95	Energy and Transmission Allocation in the Presence of Overlapping Electricity Markets. IEEE Transactions on Power Systems, 2010, 25, 1402-1414.	6.5	4
96	Hourly-discretized mid-term power system operation in a competitive energy market. , 2009, , .		1
97	Demand Response in Electricity Markets. , 2009, , .		13
98	Simulation of Optimal Medium-Term Hydro-Thermal System Operation by Grid Computing. IEEE Transactions on Power Systems, 2009, 24, 1208-1217.	6.5	34
99	Bidding and managing congestion across multiple electricity spot markets. , 2009, , .		1
100	Analysis of a yearly multi-round, multi-period, multi-product transmission rights auction. Electric Power Systems Research, 2008, 78, 464-474.	3.6	3
101	A MIP approach to the yearly scheduling problem of a mixed hydrothermal system. , 2008, , .		3
102	Electricity producer self-scheduling in day-ahead energy and reserves markets. , 2008, , .		0
103	Agent-Based Analysis of Capacity Withholding and Tacit Collusion in Electricity Markets. IEEE Transactions on Power Systems, 2007, 22, 1735-1742.	6.5	84
104	Electricity Producer Offering Strategies in Day-Ahead Energy Market With Step-Wise Offers. IEEE Transactions on Power Systems, 2007, 22, 1804-1818.	6.5	101
105	Analysis of a monthly auction for financial transmission rights and flow-gate rights. Electric Power Systems Research, 2007, 77, 594-603.	3.6	9
106	Agent-Based Simulation of Power Markets under Uniform and Pay-as-Bid Pricing Rules using Reinforcement Learning. , 2006, , .		13
107	Multi-Agent Reinforcement Learning for Strategic Bidding in Power Markets. , 2006, , .		16
108	Decentralised OPF of large multiarea power systems. IET Generation, Transmission and Distribution, 2006, 153, 99.	1.1	33

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109	Comparison of two metaheuristics with mathematical programming methods for the solution of OPF. IET Generation, Transmission and Distribution, 2006, 153, 16.	1.1	18
110	A Decentralized Implementation of DC Optimal Power Flow on a Network of Computers. IEEE Transactions on Power Systems, 2005, 20, 25-33.	6.5	110
111	A Genetic Algorithm Solution Approach to the Hydrothermal Coordination Problem. IEEE Transactions on Power Systems, 2004, 19, 1356-1364.	6.5	115
112	Efficient Determination of Cournot Equilibria in Electricity Markets. IEEE Transactions on Power Systems, 2004, 19, 1837-1844.	6.5	32
113	A Solution to the Unit-Commitment Problem Using Integer-Coded Genetic Algorithm. IEEE Transactions on Power Systems, 2004, 19, 1165-1172.	6.5	343
114	Bidding Strategies for Electricity Producers in a Competitive Electricity Marketplace. IEEE Transactions on Power Systems, 2004, 19, 356-365.	6.5	189
115	A load curve based fuzzy modeling technique for short-term load forecasting. Fuzzy Sets and Systems, 2003, 135, 279-303.	2.7	21
116	Network-constrained economic dispatch using real-coded genetic algorithm. IEEE Transactions on Power Systems, 2003, 18, 198-205.	6.5	188
117	A decentralized solution to the DC-OPF of interconnected power systems. IEEE Transactions on Power Systems, 2003, 18, 1007-1013.	6.5	201
118	Optimal power flow by enhanced genetic algorithm. IEEE Transactions on Power Systems, 2002, 17, 229-236.	6.5	534
119	Decentralised congestion management of interconnected power systems. IET Generation, Transmission and Distribution, 2002, 149, 432.	1.1	24
120	A Bayesian Multiple Models Combination Method for Time Series Prediction. Journal of Intelligent and Robotic Systems: Theory and Applications, 2001, 31, 69-89.	3.4	58
121	A hybrid fuzzy modeling method for short-term load forecasting. Mathematics and Computers in Simulation, 2000, 51, 221-232.	4.4	25
122	Fuzzy modeling for short term load forecasting using the orthogonal least squares method. IEEE Transactions on Power Systems, 1999, 14, 29-36.	6.5	90
123	A novel approach to short-term load forecasting using fuzzy neural networks. IEEE Transactions on Power Systems, 1998, 13, 480-492.	6.5	115
124	Short-term load forecasting in an autonomous power system using artificial neural networks. IEEE Transactions on Power Systems, 1997, 12, 1591-1596.	6.5	40
125	Short term load forecasting using a Bayesian combination method. International Journal of Electrical Power and Energy Systems, 1997, 19, 171-177.	5.5	27
126	A genetic algorithm solution to the unit commitment problem. IEEE Transactions on Power Systems, 1996, 11, 83-92.	6.5	924



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127	Prediction and evaluation of the performance of wind-diesel energy systems. IEEE Transactions on Energy Conversion, 1996, 11, 385-393.	5.2	63
128	A neural network short term load forecasting model for the Greek power system. IEEE Transactions on Power Systems, 1996, 11, 858-863.	6.5	294
129	Short-term load forecasting using neural networks. Electric Power Systems Research, 1995, 33, 1-6.	3.6	88
130	Short term load forecasting using fuzzy neural networks. IEEE Transactions on Power Systems, 1995, 10, 1518-1524.	6.5	162
131	Probabilistic evaluation of the performance of wind-diesel energy systems. IEEE Transactions on Energy Conversion, 1994, 9, 743-752.	5.2	28
132	A probabilistic method for the evaluation of the performance and the reliability of wind-diesel energy systems. IEEE Transactions on Energy Conversion, 1993, 8, 197-206.	5.2	40
133	Design of a stand alone system with renewable energy sources using trade off methods. IEEE Transactions on Energy Conversion, 1992, 7, 42-48.	5.2	122
134	A probabilistic method for the evaluation of the reliability of stand alone wind energy systems. IEEE Transactions on Energy Conversion, 1992, 7, 99-107.	5.2	45
135	A probabilistic method for the evaluation of the performance of wind-diesel energy systems. IEEE Transactions on Energy Conversion, 1992, 7, 418-425.	5.2	32
136	Optimum operation of a small autonomous system with unconventional energy sources. Electric Power Systems Research, 1992, 23, 93-102.	3.6	44
137	Short term generation scheduling in a small autonomous system with unconventional energy sources. IEEE Transactions on Power Systems, 1988, 3, 1230-1236.	6.5	56
138	Incorporation of Switching Operations in Power System Corrective Control Computations. IEEE Transactions on Power Systems, 1987, 2, 669-675.	6.5	94
139	Development of Courses on Power System Energy Control Centers. IEEE Transactions on Education, 1984, 27, 66-72.	2.4	7