

# Vassilis Kekatos

## List of Publications by Year in descending order

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45  
papers

1,766  
citations

393982

19  
h-index

525886

27  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1650  
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Topology Design Algorithms for Power Grid Stability. , 2022, 6, 1100-1105.		2
2	Controlling Smart Inverters Using Proxies: A Chance-Constrained DNN-Based Approach. IEEE Transactions on Smart Grid, 2022, 13, 1310-1321.	6.2	10
3	Strategic Generation Investment in Energy Markets: A Multiparametric Programming Approach. IEEE Transactions on Power Systems, 2022, 37, 2590-2600.	4.6	3
4	Learning to Solve the AC-OPF Using Sensitivity-Informed Deep Neural Networks. IEEE Transactions on Power Systems, 2022, 37, 2833-2846.	4.6	23
5	Data-Driven Modeling of Aggregate Flexibility Under Uncertain and Non-Convex Device Models. IEEE Transactions on Smart Grid, 2022, 13, 4572-4582.	6.2	7
6	On the Flow Problem in Water Distribution Networks: Uniqueness and Solvers. IEEE Transactions on Control of Network Systems, 2021, 8, 462-474.	2.4	9
7	Ripple-Type Control for Enhancing Resilience of Networked Physical Systems. , 2021, , .		1
8	Fast Probabilistic Hosting Capacity Analysis for Active Distribution Systems. IEEE Transactions on Smart Grid, 2021, 12, 2000-2012.	6.2	27
9	Real-Time Identifiability of Power Distribution Network Topologies With Limited Monitoring. , 2020, 4, 325-330.		27
10	Power Flow Solvers for Direct Current Networks. IEEE Transactions on Smart Grid, 2020, 11, 634-643.	6.2	19
11	Optimal Scheduling of Water Distribution Systems. IEEE Transactions on Control of Network Systems, 2020, 7, 711-723.	2.4	34
12	Natural Gas Flow Solvers Using Convex Relaxation. IEEE Transactions on Control of Network Systems, 2020, 7, 1283-1295.	2.4	25
13	Designing Reactive Power Control Rules for Smart Inverters Using Support Vector Machines. IEEE Transactions on Smart Grid, 2020, 11, 1759-1770.	6.2	38
14	Deep Learning for Reactive Power Control of Smart Inverters under Communication Constraints. , 2020, , .		6
15	Learning to Optimize Power Distribution Grids using Sensitivity-Informed Deep Neural Networks. , 2020, , .		13
16	Optimal Real-Time Coordination of Energy Storage Units As a Voltage-Constrained Game. IEEE Transactions on Smart Grid, 2019, 10, 3883-3894.	6.2	19
17	Smart Inverter Grid Probing for Learning Loads: Part IIâ€”Probing Injection Design. IEEE Transactions on Power Systems, 2019, 34, 3537-3546.	4.6	7
18	Smart Inverter Grid Probing for Learning Loads: Part I â€” Identifiability Analysis. IEEE Transactions on Power Systems, 2019, 34, 3527-3536.	4.6	12

#	ARTICLE	IF	CITATIONS
19	Inverter Probing for Power Distribution Network Topology Processing. IEEE Transactions on Control of Network Systems, 2019, 6, 980-992.	2.4	42
20	Natural Gas Flow Equations: Uniqueness and an MI-SOCP Solver. , 2019, , .		8
21	An MILP Approach for Distribution Grid Topology Identification using Inverter Probing. , 2019, , .		6
22	Designing Power Grid Topologies for Minimizing Network Disturbances: An Exact MILP Formulation. , 2019, , .		8
23	Voltage Analytics for Power Distribution Network Topology Verification. IEEE Transactions on Smart Grid, 2019, 10, 1058-1067.	6.2	77
24	Enhancing Observability in Distribution Grids Using Smart Meter Data. IEEE Transactions on Smart Grid, 2018, 9, 5953-5961.	6.2	101
25	Two-Timescale Stochastic Dispatch of Smart Distribution Grids. IEEE Transactions on Smart Grid, 2018, 9, 4282-4292.	6.2	9
26	Graph Algorithms for Topology Identification Using Power Grid Probing. , 2018, 2, 689-694.		57
27	Enhancing observability in power distribution grids. , 2017, , .		7
28	Solving the natural gas flow problem using semidefinite program relaxation. , 2017, , .		9
29	Power distribution system observability with smart meter data. , 2017, , .		4
30	Power grid probing for load learning: Identifiability over multiple time instances. , 2017, , .		2
31	Scalable Electric Vehicle Charging Protocols. IEEE Transactions on Power Systems, 2016, , 1-1.	4.6	51
32	Real-time operation of heterogeneous energy storage units. , 2016, , .		6
33	Voltage Regulation Algorithms for Multiphase Power Distribution Grids. IEEE Transactions on Power Systems, 2016, 31, 3913-3923.	4.6	88
34	Ergodic Energy Management Leveraging Resource Variability in Distribution Grids. IEEE Transactions on Power Systems, 2016, 31, 4765-4775.	4.6	39
35	Online Energy Price Matrix Factorization for Power Grid Topology Tracking. IEEE Transactions on Smart Grid, 2016, 7, 1239-1248.	6.2	41
36	Microgrid dispatch and price of reliability using stochastic approximation. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
37	Stochastic Reactive Power Management in Microgrids With Renewables. IEEE Transactions on Power Systems, 2015, 30, 3386-3395.	4.6	148
38	Grid topology identification using electricity prices. , 2014, , .		35
39	Electricity Market Forecasting via Low-Rank Multi-Kernel Learning. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 1182-1193.	7.3	21
40	Monitoring and Optimization for Power Grids: A Signal Processing Perspective. IEEE Signal Processing Magazine, 2013, 30, 107-128.	4.6	207
41	Distributed Robust Power System State Estimation. IEEE Transactions on Power Systems, 2013, 28, 1617-1626.	4.6	395
42	Sparse Volterra and Polynomial Regression Models: Recoverability and Estimation. IEEE Transactions on Signal Processing, 2011, 59, 5907-5920.	3.2	61
43	From Sparse Signals to Sparse Residuals for Robust Sensing. IEEE Transactions on Signal Processing, 2011, 59, 3355-3368.	3.2	48
44	Outlier-aware robust clustering. , 2011, , .		5
45	Robust layered sensing: From sparse signals to sparse residuals. , 2010, , .		4