# Vassilis Kekatos

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7720586/publications.pdf

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| 45 | 1,766 | 393982 | 525886 |
|---|---|---|---|
| papers | citations | 19 h-index | 27 g-index |

| 46 | 46 | 46 | 1650 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Distributed Robust Power System State Estimation. IEEE Transactions on Power Systems, 2013, 28, 1617-1626. | 4.6 | 395 |
| 2 | Monitoring and Optimization for Power Grids: A Signal Processing Perspective. IEEE Signal Processing Magazine, 2013, 30, 107-128. | 4.6 | 207 |
| 3 | Stochastic Reactive Power Management in Microgrids With Renewables. IEEE Transactions on Power Systems, 2015, 30, 3386-3395. | 4.6 | 148 |
| 4 | Enhancing Observability in Distribution Grids Using Smart Meter Data. IEEE Transactions on Smart Grid, 2018, 9, 5953-5961. | 6.2 | 101 |
| 5 | Voltage Regulation Algorithms for Multiphase Power Distribution Grids. IEEE Transactions on Power Systems, 2016, 31, 3913-3923. | 4.6 | 88 |
| 6 | Voltage Analytics for Power Distribution Network Topology Verification. IEEE Transactions on Smart Grid, 2019, 10, 1058-1067. | 6.2 | 77 |
| 7 | Sparse Volterra and Polynomial Regression Models: Recoverability and Estimation. IEEE Transactions on Signal Processing, 2011, 59, 5907-5920. | 3.2 | 61 |
| 8 | Graph Algorithms for Topology Identification Using Power Grid Probing. , 2018, 2, 689-694. | | 57 |
| 9 | Scalable Electric Vehicle Charging Protocols. IEEE Transactions on Power Systems, 2016, , 1-1. | 4.6 | 51 |
| 10 | From Sparse Signals to Sparse Residuals for Robust Sensing. IEEE Transactions on Signal Processing, 2011, 59, 3355-3368. | 3.2 | 48 |
| 11 | Inverter Probing for Power Distribution Network Topology Processing. IEEE Transactions on Control of Network Systems, 2019, 6, 980-992. | 2.4 | 42 |
| 12 | Online Energy Price Matrix Factorization for Power Grid Topology Tracking. IEEE Transactions on Smart Grid, 2016, 7, 1239-1248. | 6.2 | 41 |
| 13 | Ergodic Energy Management Leveraging Resource Variability in Distribution Grids. IEEE Transactions on Power Systems, 2016, 31, 4765-4775. | 4.6 | 39 |
| 14 | Designing Reactive Power Control Rules for Smart Inverters Using Support Vector Machines. IEEE Transactions on Smart Grid, 2020, 11, 1759-1770. | 6.2 | 38 |
| 15 | Grid topology identification using electricity prices. , 2014, , . | | 35 |
| 16 | Optimal Scheduling of Water Distribution Systems. IEEE Transactions on Control of Network Systems, 2020, 7, 711-723. | 2.4 | 34 |
| 17 | Real-Time Identifiability of Power Distribution Network Topologies With Limited Monitoring. , 2020, 4, 325-330. | | 27 |
| 18 | Fast Probabilistic Hosting Capacity Analysis for Active Distribution Systems. IEEE Transactions on Smart Grid, 2021, 12, 2000-2012. | 6.2 | 27 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Natural Gas Flow Solvers Using Convex Relaxation. IEEE Transactions on Control of Network Systems, 2020, 7, 1283-1295. | 2.4 | 25 |
| 20 | Learning to Solve the AC-OPF Using Sensitivity-Informed Deep Neural Networks. IEEE Transactions on Power Systems, 2022, 37, 2833-2846. | 4.6 | 23 |
| 21 | Electricity Market Forecasting via Low-Rank Multi-Kernel Learning. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 1182-1193. | 7.3 | 21 |
| 22 | 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 |
| 23 | Power Flow Solvers for Direct Current Networks. IEEE Transactions on Smart Grid, 2020, 11, 634-643. | 6.2 | 19 |
| 24 | Learning to Optimize Power Distribution Grids using Sensitivity-Informed Deep Neural Networks. , 2020, , . | | 13 |
| 25 | Smart Inverter Grid Probing for Learning Loads: Part I â€" Identifiability Analysis. IEEE Transactions on Power Systems, 2019, 34, 3527-3536. | 4.6 | 12 |
| 26 | Controlling Smart Inverters Using Proxies: A Chance-Constrained DNN-Based Approach. IEEE Transactions on Smart Grid, 2022, 13, 1310-1321. | 6.2 | 10 |
| 27 | Solving the natural gas flow problem using semidefinite program relaxation. , 2017, , . | | 9 |
| 28 | Two-Timescale Stochastic Dispatch of Smart Distribution Grids. IEEE Transactions on Smart Grid, 2018, 9, 4282-4292. | 6.2 | 9 |
| 29 | 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 |
| 30 | Natural Gas Flow Equations: Uniqueness and an MI-SOCP Solver. , 2019, , . | | 8 |
| 31 | Designing Power Grid Topologies for Minimizing Network Disturbances: An Exact MILP Formulation. , 2019, , . | | 8 |
| 32 | Enhancing observability in power distribution grids. , 2017, , . | | 7 |
| 33 | Smart Inverter Grid Probing for Learning Loads: Part IIâ€"Probing Injection Design. IEEE Transactions on Power Systems, 2019, 34, 3537-3546. | 4.6 | 7 |
| 34 | 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 |
| 35 | Real-time operation of heterogeneous energy storage units. , 2016, , . | | 6 |
| 36 | An MILP Approach for Distribution Grid Topology Identification using Inverter Probing. , 2019, , . | | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Deep Learning for Reactive Power Control of Smart Inverters under Communication Constraints. , 2020, , . | | 6 |
| 38 | Outlier-aware robust clustering. , 2011, , . | | 5 |
| 39 | Robust layered sensing: From sparse signals to sparse residuals. , 2010, , . | | 4 |
| 40 | Power distribution system observability with smart meter data. , 2017, , . | | 4 |
| 41 | Strategic Generation Investment in Energy Markets: A Multiparametric Programming Approach. IEEE Transactions on Power Systems, 2022, 37, 2590-2600. | 4.6 | 3 |
| 42 | Microgrid dispatch and price of reliability using stochastic approximation. , 2015, , . | | 2 |
| 43 | Power grid probing for load learning: Identifiability over multiple time instances. , 2017, , . | | 2 |
| 44 | Efficient Topology Design Algorithms for Power Grid Stability. , 2022, 6, 1100-1105. | | 2 |
| 45 | Ripple-Type Control for Enhancing Resilience of Networked Physical Systems. , 2021, , . | | 1 |