

Yoash Levron

List of Publications by Year in descending order

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71
papers

1,738
citations

331538

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41
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71
docs citations

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times ranked

1872
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | An Optimal Control Method for Storage Systems With Ramp Constraints, Based on an On-Going Trimming Process. IEEE Transactions on Control Systems Technology, 2023, 31, 493-496. | 3.2 | 0 |
| 2 | Evaluating generator damping for windâ€ integrated power system in ambient conditions. IET Renewable Power Generation, 2022, 16, 300-312. | 1.7 | 6 |
| 3 | Optimal Control of Lossy Energy Storage Systems With Nonlinear Efficiency Based on Dynamic Programming and Pontryagin's Minimum Principle. IEEE Transactions on Energy Conversion, 2021, 36, 524-533. | 3.7 | 15 |
| 4 | Effects of the COVID-19 Pandemic on Energy Systems and Electric Power Gridsâ€ A Review of the Challenges Ahead. Energies, 2021, 14, 1056. | 1.6 | 65 |
| 5 | Virtual Inertia Control Methods in Islanded Microgrids. Energies, 2021, 14, 1562. | 1.6 | 23 |
| 6 | Assessing Energy Generation and Consumption Patterns in Times of Crisis: COVID-19 as a Case Study. , 2021, , . | | 0 |
| 7 | A Comparative Study on Graph-based Ranking Algorithms for Consumer-oriented Demand Side Management. , 2021, , . | | 3 |
| 8 | New type of bridge fault current limiter with reduced power losses for transient stability improvement of DFIG wind farm. Electric Power Systems Research, 2021, 197, 107293. | 2.1 | 14 |
| 9 | Minimal Output Impedance Required for Stability of Grid-Supporting Inverters. IEEE Transactions on Power Delivery, 2021, 36, 2241-2244. | 2.9 | 1 |
| 10 | Frequency stability of the Israeli power grid with high penetration of renewable sources and energy storage systems. Energy Reports, 2021, 7, 6148-6161. | 2.5 | 13 |
| 11 | Uses of the digital twins concept for energy services, intelligent recommendation systems, and demand side management: A review. Energy Reports, 2021, 7, 997-1015. | 2.5 | 81 |
| 12 | Storage for Grid Deferral: The Case of Israel. , 2021, , . | | 1 |
| 13 | Effects of Economic Shocks on Power Systems: COVID-19 as a Case Study. , 2021, , . | | 1 |
| 14 | Applications of Game Theory to Design and Operation of Modern Power Systems: A Comprehensive Review. Energies, 2020, 13, 3982. | 1.6 | 25 |
| 15 | Readiness of Small Energy Markets and Electric Power Grids to Global Health Crises: Lessons From the COVID-19 Pandemic. IEEE Access, 2020, 8, 127234-127243. | 2.6 | 37 |
| 16 | Observer-based detection and identification of sensor attacks in networked CPSs. Automatica, 2020, 121, 109166. | 3.0 | 19 |
| 17 | Innovative Energy Services for Behavioral-Reflective Attributes and Intelligent Recommender System. , 2020, , . | | 1 |
| 18 | Optimal grid integration of renewable energy sources with energy storage using dq0 based inverter controller. , 2020, , . | | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Dimension reduction for NILM classification based on principle component analysis. <i>Electric Power Systems Research</i> , 2020, 187, 106459. | 2.1 | 22 |
| 20 | Integration of distributed renewable energy sources in Israel: Transmission congestion challenges and policy recommendations. <i>Energy Policy</i> , 2020, 140, 111412. | 4.2 | 22 |
| 21 | Verification of Utility-Scale Solar Photovoltaic Plant Models for Dynamic Studies of Transmission Networks. <i>Energies</i> , 2020, 13, 3191. | 1.6 | 10 |
| 22 | Control of Energy Storage Devices Under Uncertainty Using Nonlinear Feedback Systems. , 2020, , . | | 4 |
| 23 | Using DQ0 Signals based on the Central Angle Reference Frame to Model the Dynamics of Large-scale Power Systems. , 2020, , . | | 3 |
| 24 | An Extended Flatness-Based Controller for Permanent Magnet Synchronous Machines Incorporating an Event-Based Mechanism. , 2019, , . | | 2 |
| 25 | Performance Limits of Low Inertia Power Systems Based on Minimum Energy Control. , 2019, , . | | 0 |
| 26 | Analyzing the Dynamics and Stability of DQ0 Systems Based on a Port-Hamiltonian Approach. , 2019, , . | | 1 |
| 27 | A stability theorem for networks containing synchronous generators. <i>Systems and Control Letters</i> , 2019, 134, 104561. | 1.3 | 17 |
| 28 | MO-NILM: A multi-objective evolutionary algorithm for NILM classification. <i>Energy and Buildings</i> , 2019, 199, 134-144. | 3.1 | 32 |
| 29 | Detection of Electricity Theft based on Compressed Sensing. , 2019, , . | | 13 |
| 30 | Output Power Limit in Energy Harvesting Systems Based on Magnetic Induction Incorporating High-Frequency Effects. <i>Instruments</i> , 2019, 3, 26. | 0.8 | 2 |
| 31 | Channel Capacity of Magnetic Communication in a General Medium Incorporating Full-Wave Analysis and High-Frequency Effects. <i>IEEE Transactions on Antennas and Propagation</i> , 2019, 67, 4104-4118. | 3.1 | 4 |
| 32 | Improved Fractional Open Circuit Voltage MPPT Methods for PV Systems. <i>Electronics (Switzerland)</i> , 2019, 8, 321. | 1.8 | 84 |
| 33 | Two stability theorems concerning power networks. , 2019, , . | | 0 |
| 34 | Optimal Control of Energy Storage Devices Based on Pontryagin's Minimum Principle and the Shortest Path Method. , 2019, , . | | 5 |
| 35 | Modified Cross-Entropy Method for Classification of Events in NILM Systems. <i>IEEE Transactions on Smart Grid</i> , 2019, 10, 4962-4973. | 6.2 | 39 |
| 36 | Globally solving a class of optimal power flow problems in radial networks by tree reduction. <i>Journal of Global Optimization</i> , 2018, 72, 373-402. | 1.1 | 2 |

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|----|---|-----|-----------|
| 37 | Sparse Estimation of Faults by Compressed Sensing With Structural Constraints. IEEE Transactions on Power Systems, 2018, 33, 5935-5944. | 4.6 | 9 |
| 38 | Integration of long transmission lines in large-scale dq0 dynamic models. Electrical Engineering, 2018, 100, 1219-1228. | 1.2 | 10 |
| 39 | A Sparse Minimal-Order Dynamic Model of Power Networks Based on dq0 Signals. IEEE Transactions on Power Systems, 2018, 33, 1059-1067. | 4.6 | 14 |
| 40 | Nearest Neighbor MPPT with Cross-Entropy Method optimization. , 2018, , . | | 0 |
| 41 | A Tutorial on Dynamics and Control of Power Systems with Distributed and Renewable Energy Sources Based on the DQ0 Transformation. Applied Sciences (Switzerland), 2018, 8, 1661. | 1.3 | 30 |
| 42 | Minimal energy storage required for stability of low inertia distributed sources. , 2018, , . | | 4 |
| 43 | Uses and Misuses of Quasi-Static Time-Varying Phasor Models in Power Systems. IEEE Transactions on Power Delivery, 2018, 33, 3263-3266. | 2.9 | 9 |
| 44 | Challenges of Microgrids in Remote Communities: A STEEP Model Application. Energies, 2018, 11, 432. | 1.6 | 100 |
| 45 | Modeling power networks using dynamic phasors in the dq0 reference frame. Electric Power Systems Research, 2017, 144, 233-242. | 2.1 | 26 |
| 46 | Reduction of Power System Dynamic Models Using Sparse Representations. IEEE Transactions on Power Systems, 2017, 32, 3893-3900. | 4.6 | 7 |
| 47 | Comparison of time-varying phasor and dq 0 dynamic models for large transmission networks. International Journal of Electrical Power and Energy Systems, 2017, 93, 65-74. | 3.3 | 18 |
| 48 | Open-source software for modeling and analysis of power networks in the dq0 reference frame. , 2017, , . | | 7 |
| 49 | Dynamic Modeling of Networks, Microgrids, and Renewable Sources in the dq0 Reference Frame: A Survey. IEEE Access, 2017, 5, 21323-21335. | 2.6 | 75 |
| 50 | Real-time reactive power distribution in microgrids by dynamic programming. IET Generation, Transmission and Distribution, 2017, 11, 530-539. | 1.4 | 5 |
| 51 | DESIGN OF EFFICIENT AIR CORE INDUCTORS USING A PARTIAL ELEMENT EQUIVALENT CIRCUIT METHOD. Progress in Electromagnetics Research M, 2017, 61, 215-229. | 0.5 | 1 |
| 52 | Battery Storage Technologies for Electrical Applications: Impact in Stand-Alone Photovoltaic Systems. Energies, 2017, 10, 1760. | 1.6 | 100 |
| 53 | MAGNETIC INDUCTION ANTENNA ARRAYS FOR MIMO AND MULTIPLE-FREQUENCY COMMUNICATION SYSTEMS. Progress in Electromagnetics Research C, 2017, 75, 155-167. | 0.6 | 13 |
| 54 | Design optimization of transmitting antennas for weakly coupled magnetic induction communication systems. PLoS ONE, 2017, 12, e0171982. | 1.1 | 6 |

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|----|---|-----|-----------|
| 55 | Observable canonical forms of multi-machine power systems using dq0 signals. , 2016, , . | | 3 |
| 56 | Increasing the Sensitivity of Search Coil Magnetometer by Capacitive Compensation. IEEE Sensors Journal, 2016, 16, 4671-4672. | 2.4 | 5 |
| 57 | Power transfer limits and optimal operation frequency in induction power transfer systems incorporating high-frequency effects. , 2016, , . | | 4 |
| 58 | Observability challenges in sparse estimation of fault events. , 2016, , . | | 2 |
| 59 | Thermodynamic Signal-to-Noise and Channel Capacity Limits of Magnetic Induction Sensors and Communication Systems. IEEE Sensors Journal, 2016, 16, 1575-1585. | 2.4 | 13 |
| 60 | High Weighted Efficiency in Single-Phase Solar Inverters by a Variable-Frequency Peak Current Controller. IEEE Transactions on Power Electronics, 2016, 31, 248-257. | 5.4 | 30 |
| 61 | The effects of radiation resistance on the signal to noise limits of magnetic sensors and communication systems. , 2015, , . | | 0 |
| 62 | Close multiple power flow solutions in power networks. , 2015, , . | | 1 |
| 63 | Applications of compressed sensing and sparse representations for state estimation in power systems. , 2015, , . | | 5 |
| 64 | Applications of compressed sensing for locating harmonic distortions in power systems. , 2015, , . | | 0 |
| 65 | Distributed Series Static Compensator Deployment Using a Linearized Transmission System Model. IEEE Transactions on Power Delivery, 2015, 30, 1269-1277. | 2.9 | 15 |
| 66 | Control of Submodule Integrated Converters in the Isolated-Port Differential Power-Processing Photovoltaic Architecture. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 821-832. | 3.7 | 81 |
| 67 | Optimal Power Flow in Microgrids With Energy Storage. IEEE Transactions on Power Systems, 2013, 28, 3226-3234. | 4.6 | 321 |
| 68 | Maximum Power Point Tracking Employing Sliding Mode Control. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 724-732. | 3.5 | 114 |
| 69 | Distributed Maximum Power Point Tracking in Photovoltaic Systems”Emerging Architectures and Control Methods. Automatika, 2012, 53, 142-155. | 1.2 | 52 |
| 70 | Power systems”™ optimal peak-shaving applying secondary storage. Electric Power Systems Research, 2012, 89, 80-84. | 2.1 | 77 |
| 71 | On the Maximum Efficiency of Systems Containing Multiple Sources. IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 2232-2241. | 3.5 | 12 |