

# Yoash Levron

## List of Publications by Year in descending order

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71  
papers

1,738  
citations

331538

21  
h-index

276775

41  
g-index

71  
all docs

71  
docs citations

71  
times ranked

1872  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal Power Flow in Microgrids With Energy Storage. IEEE Transactions on Power Systems, 2013, 28, 3226-3234.	4.6	321
2	Maximum Power Point Tracking Employing Sliding Mode Control. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 724-732.	3.5	114
3	Battery Storage Technologies for Electrical Applications: Impact in Stand-Alone Photovoltaic Systems. Energies, 2017, 10, 1760.	1.6	100
4	Challenges of Microgrids in Remote Communities: A STEEP Model Application. Energies, 2018, 11, 432.	1.6	100
5	Improved Fractional Open Circuit Voltage MPPT Methods for PV Systems. Electronics (Switzerland), 2019, 8, 321.	1.8	84
6	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
7	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
8	Power systemsâ€™ optimal peak-shaving applying secondary storage. Electric Power Systems Research, 2012, 89, 80-84.	2.1	77
9	Dynamic Modeling of Networks, Microgrids, and Renewable Sources in the dq0 Reference Frame: A Survey. IEEE Access, 2017, 5, 21323-21335.	2.6	75
10	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
11	Distributed Maximum Power Point Tracking in Photovoltaic Systemsâ€™Emerging Architectures and Control Methods. Automatika, 2012, 53, 142-155.	1.2	52
12	Modified Cross-Entropy Method for Classification of Events in NILM Systems. IEEE Transactions on Smart Grid, 2019, 10, 4962-4973.	6.2	39
13	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
14	MO-NILM: A multi-objective evolutionary algorithm for NILM classification. Energy and Buildings, 2019, 199, 134-144.	3.1	32
15	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
16	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
17	Modeling power networks using dynamic phasors in the dq0 reference frame. Electric Power Systems Research, 2017, 144, 233-242.	2.1	26
18	Applications of Game Theory to Design and Operation of Modern Power Systems: A Comprehensive Review. Energies, 2020, 13, 3982.	1.6	25

#	ARTICLE	IF	CITATIONS
19	Virtual Inertia Control Methods in Islanded Microgrids. <i>Energies</i> , 2021, 14, 1562.	1.6	23
20	Dimension reduction for NILM classification based on principle component analysis. <i>Electric Power Systems Research</i> , 2020, 187, 106459.	2.1	22
21	Integration of distributed renewable energy sources in Israel: Transmission congestion challenges and policy recommendations. <i>Energy Policy</i> , 2020, 140, 111412.	4.2	22
22	Observer-based detection and identification of sensor attacks in networked CPSs. <i>Automatica</i> , 2020, 121, 109166.	3.0	19
23	Comparison of time-varying phasor and dq 0 dynamic models for large transmission networks. <i>International Journal of Electrical Power and Energy Systems</i> , 2017, 93, 65-74.	3.3	18
24	A stability theorem for networks containing synchronous generators. <i>Systems and Control Letters</i> , 2019, 134, 104561.	1.3	17
25	Distributed Series Static Compensator Deployment Using a Linearized Transmission System Model. <i>IEEE Transactions on Power Delivery</i> , 2015, 30, 1269-1277.	2.9	15
26	Optimal Control of Lossy Energy Storage Systems With Nonlinear Efficiency Based on Dynamic Programming and Pontryagin's Minimum Principle. <i>IEEE Transactions on Energy Conversion</i> , 2021, 36, 524-533.	3.7	15
27	A Sparse Minimal-Order Dynamic Model of Power Networks Based on dq0 Signals. <i>IEEE Transactions on Power Systems</i> , 2018, 33, 1059-1067.	4.6	14
28	New type of bridge fault current limiter with reduced power losses for transient stability improvement of DFIG wind farm. <i>Electric Power Systems Research</i> , 2021, 197, 107293.	2.1	14
29	Thermodynamic Signal-to-Noise and Channel Capacity Limits of Magnetic Induction Sensors and Communication Systems. <i>IEEE Sensors Journal</i> , 2016, 16, 1575-1585.	2.4	13
30	MAGNETIC INDUCTION ANTENNA ARRAYS FOR MIMO AND MULTIPLE-FREQUENCY COMMUNICATION SYSTEMS. <i>Progress in Electromagnetics Research C</i> , 2017, 75, 155-167.	0.6	13
31	Detection of Electricity Theft based on Compressed Sensing. , 2019, , .		13
32	Frequency stability of the Israeli power grid with high penetration of renewable sources and energy storage systems. <i>Energy Reports</i> , 2021, 7, 6148-6161.	2.5	13
33	On the Maximum Efficiency of Systems Containing Multiple Sources. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2010, 57, 2232-2241.	3.5	12
34	Integration of long transmission lines in large-scale dq0 dynamic models. <i>Electrical Engineering</i> , 2018, 100, 1219-1228.	1.2	10
35	Verification of Utility-Scale Solar Photovoltaic Plant Models for Dynamic Studies of Transmission Networks. <i>Energies</i> , 2020, 13, 3191.	1.6	10
36	Sparse Estimation of Faults by Compressed Sensing With Structural Constraints. <i>IEEE Transactions on Power Systems</i> , 2018, 33, 5935-5944.	4.6	9

#	ARTICLE	IF	CITATIONS
37	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
38	Reduction of Power System Dynamic Models Using Sparse Representations. IEEE Transactions on Power Systems, 2017, 32, 3893-3900.	4.6	7
39	Open-source software for modeling and analysis of power networks in the dq0 reference frame. , 2017, , .		7
40	Design optimization of transmitting antennas for weakly coupled magnetic induction communication systems. PLoS ONE, 2017, 12, e0171982.	1.1	6
41	Evaluating generator damping for wind-integrated power system in ambient conditions. IET Renewable Power Generation, 2022, 16, 300-312.	1.7	6
42	Applications of compressed sensing and sparse representations for state estimation in power systems. , 2015, , .		5
43	Increasing the Sensitivity of Search Coil Magnetometer by Capacitive Compensation. IEEE Sensors Journal, 2016, 16, 4671-4672.	2.4	5
44	Real-time reactive power distribution in microgrids by dynamic programming. IET Generation, Transmission and Distribution, 2017, 11, 530-539.	1.4	5
45	Optimal Control of Energy Storage Devices Based on Pontryagin's Minimum Principle and the Shortest Path Method. , 2019, , .		5
46	Power transfer limits and optimal operation frequency in induction power transfer systems incorporating high-frequency effects. , 2016, , .		4
47	Minimal energy storage required for stability of low inertia distributed sources. , 2018, , .		4
48	Channel Capacity of Magnetic Communication in a General Medium Incorporating Full-Wave Analysis and High-Frequency Effects. IEEE Transactions on Antennas and Propagation, 2019, 67, 4104-4118.	3.1	4
49	Control of Energy Storage Devices Under Uncertainty Using Nonlinear Feedback Systems. , 2020, , .		4
50	Observable canonical forms of multi-machine power systems using dq0 signals. , 2016, , .		3
51	A Comparative Study on Graph-based Ranking Algorithms for Consumer-oriented Demand Side Management. , 2021, , .		3
52	Using DQ0 Signals based on the Central Angle Reference Frame to Model the Dynamics of Large-scale Power Systems. , 2020, , .		3
53	Observability challenges in sparse estimation of fault events. , 2016, , .		2
54	Globally solving a class of optimal power flow problems in radial networks by tree reduction. Journal of Global Optimization, 2018, 72, 373-402.	1.1	2

#	ARTICLE	IF	CITATIONS
55	An Extended Flatness-Based Controller for Permanent Magnet Synchronous Machines Incorporating an Event-Based Mechanism. , 2019, , .		2
56	Output Power Limit in Energy Harvesting Systems Based on Magnetic Induction Incorporating High-Frequency Effects. Instruments, 2019, 3, 26.	0.8	2
57	Optimal grid integration of renewable energy sources with energy storage using dq0 based inverter controller. , 2020, , .		2
58	Close multiple power flow solutions in power networks. , 2015, , .		1
59	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
60	Analyzing the Dynamics and Stability of DQ0 Systems Based on a Port-Hamiltonian Approach. , 2019, , .		1
61	Innovative Energy Services for Behavioral-Reflective Attributes and Intelligent Recommender System. , 2020, , .		1
62	Minimal Output Impedance Required for Stability of Grid-Supporting Inverters. IEEE Transactions on Power Delivery, 2021, 36, 2241-2244.	2.9	1
63	Storage for Grid Deferral: The Case of Israel. , 2021, , .		1
64	Effects of Economic Shocks on Power Systems: COVID-19 as a Case Study. , 2021, , .		1
65	The effects of radiation resistance on the signal to noise limits of magnetic sensors and communication systems. , 2015, , .		0
66	Applications of compressed sensing for locating harmonic distortions in power systems. , 2015, , .		0
67	Nearest Neighbor MPPT with Cross-Entropy Method optimization. , 2018, , .		0
68	Performance Limits of Low Inertia Power Systems Based on Minimum Energy Control. , 2019, , .		0
69	Two stability theorems concerning power networks. , 2019, , .		0
70	Assessing Energy Generation and Consumption Patterns in Times of Crisis: COVID-19 as a Case Study. , 2021, , .		0
71	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