

# Rob Hovsopian

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

651  
citations

623734

14  
h-index

794594

19  
g-index

30  
all docs

30  
docs citations

30  
times ranked

817  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enabling fast charging “ Infrastructure and economic considerations. Journal of Power Sources, 2017, 367, 237-249.	7.8	130
2	Dynamic analysis of concentrated solar supercritical CO2-based power generation closed-loop cycle. Applied Thermal Engineering, 2016, 93, 920-934.	6.0	88
3	Quantifying Power Distribution System Resiliency Using Code-Based Metric. IEEE Transactions on Industry Applications, 2018, 54, 3676-3686.	4.9	57
4	A Global Real-Time Superlab: Enabling High Penetration of Power Electronics in the Electric Grid. IEEE Power Electronics Magazine, 2018, 5, 35-44.	0.7	54
5	Effect of multi-tank thermal energy storage, recuperator effectiveness, and solar receiver conductance on the performance of a concentrated solar supercritical CO2-based power plant operating under different seasonal conditions. Energy, 2016, 115, 353-368.	8.8	39
6	Integration of transparent insulation materials into solar collector devices. Solar Energy, 2017, 147, 8-21.	6.1	39
7	Real-time co-simulation of adjustable-speed pumped storage hydro for transient stability analysis. Electric Power Systems Research, 2018, 154, 276-286.	3.6	29
8	Electrolyzers Enhancing Flexibility in Electric Grids. Energies, 2017, 10, 1836.	3.1	27
9	Geographically distributed real-time digital simulations using linear prediction. International Journal of Electrical Power and Energy Systems, 2017, 84, 308-317.	5.5	26
10	Real-Time Coupling of Geographically Distributed Research Infrastructures: Taxonomy, Overview, and Real-World Smart Grid Applications. IEEE Transactions on Smart Grid, 2021, 12, 1747-1760.	9.0	23
11	Forecasting solar-thermal systems performance under transient operation using a data-driven machine learning approach based on the deep operator network architecture. Energy Conversion and Management, 2022, 252, 115063.	9.2	19
12	A multi-criteria decision analysis-based approach for dispatch of electric microgrids. International Journal of Electrical Power and Energy Systems, 2017, 88, 99-107.	5.5	17
13	Thermal Modeling of Helium Cooled High-Temperature Superconducting DC Transmission Cable. IEEE Transactions on Applied Superconductivity, 2011, 21, 947-952.	1.7	15
14	Enabling thermal efficiency improvement and waste heat recovery using liquid air harnessed from offshore renewable energy sources. Applied Energy, 2020, 275, 115351.	10.1	15
15	Optimal Operation for Resilient and Economic Modes in an Islanded Alaskan Grid. , 2020, , .		10
16	Temperature and Pressure Drop Model for Gaseous Helium Cooled Superconducting DC Cables. IEEE Transactions on Applied Superconductivity, 2013, 23, 5402005-5402005.	1.7	9
17	Distributed Real-Time Simulation and its Applications to Wind Energy Research. , 2018, , .		9
18	Power Converter Topologies for Electrolyzer Applications to Enable Electric Grid Services. , 2021, , .		8

#	ARTICLE	IF	CITATIONS
19	Quantifying power distribution system resiliency using code based metric. , 2016, , .		7
20	Empirical study of simulation fidelity in geographically distributed real-time simulations. , 2017, , .		6
21	Efficient Phasor-Based Dynamic Volt/VAR and Volt/Watt Analysis of Large Distribution Grid With High Penetration of Smart Inverters. IEEE Transactions on Smart Grid, 2022, 13, 3997-4008.	9.0	6
22	Grid-Scale Ternary-Pumped Thermal Electricity Storage for Flexible Operation of Nuclear Power Generation under High Penetration of Renewable Energy Sources. Energies, 2021, 14, 3858.	3.1	5
23	Distributed Optimal Dynamic State Estimation for Cyber Intrusion Detection in Networked DC Microgrids. , 2019, , .		4
24	Predicting the Slope of the Temperature–Entropy Vapor Saturation Curve for Working Fluid Selection Based on Lee–Kesler Modeling. Industrial & Engineering Chemistry Research, 2020, 59, 956-969.	3.7	4
25	Thermodynamic Modeling of Heat Engines Including Heat Transfer and Compression–Expansion Irreversibilities. Journal of Thermal Science and Engineering Applications, 2022, 14, .	1.5	3
26	Enabling Seamless Integration of EV Charging Infrastructure with Weak Electric Grids. , 2019, , .		1
27	A Benchmark Case for the Grid Survivability Analysis. , 2021, , .		1
28	A Performance Metric for Co-optimization of Day-Ahead Dispatch and Reserves in Electric Microgrids. , 2019, , .		0
29	Experimental adjustment and validation of a generalized solar-assisted cogeneration system model. International Journal of Energy Research, 2019, 43, 5319-5332.	4.5	0
30	Design of Resilient Electric Distribution Systems for Remote Communities: Surgical Load Management using Smart Meters. , 2021, , .		0