Rob Hovsapian

List of Publications by Year
in descending order

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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	Thermodynamic Modeling of Heat Engines Including Heat Transfer and Compressionâ€“Expansion Irreversibilities. Journal of Thermal Science and Engineering Applications, 2022, 14, .	1.5	3
2	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
3	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
4	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
5	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
6	Design of Resilient Electric Distribution Systems for Remote Communities: Surgical Load Management using Smart Meters. , 2021, , .		0
7	Power Converter Topologies for Electrolyzer Applications to Enable Electric Grid Services. , 2021, , .		8
8	A Benchmark Case for the Grid Survivability Analysis. , 2021, , .		1
9	Predicting the Slope of the Temperatureâ€“Entropy Vapor Saturation Curve for Working Fluid Selection Based on Leeâ€“Kesler Modeling. Industrial & Engineering Chemistry Research, 2020, 59, 956-969.	3.7	4
10	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
11	Optimal Operation for Resilient and Economic Modes in an Islanded Alaskan Grid. , 2020, , .		10
12	A Performance Metric for Co-optimization of Day-Ahead Dispatch and Reserves in Electric Microgrids. , 2019, , .		0
13	Experimental adjustment and validation of a generalized solarâ€assisted cogeneration system model. International Journal of Energy Research, 2019, 43, 5319-5332.	4.5	0
14	Enabling Seamless Integration of EV Charging Infrastructure with Weak Electric Grids. , 2019, , .		1
15	Distributed Optimal Dynamic State Estimation for Cyber Intrusion Detection in Networked DC Microgrids. , 2019, , .		4
16	Quantifying Power Distribution System Resiliency Using Code-Based Metric. IEEE Transactions on Industry Applications, 2018, 54, 3676-3686.	4.9	57
17	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
18	Distributed Real-Time Simulation and its Applications to Wind Energy Research. , 2018, , .		9

#	Article	IF	Citations
19	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
20	Geographically distributed real-time digital simulations using linear prediction. International Journal of Electrical Power and Energy Systems, 2017, 84, 308-317.	5.5	26
21	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
22	Integration of transparent insulation materials into solar collector devices. Solar Energy, 2017, 147, 8-21.	6.1	39
23	Enabling fast charging â€“ Infrastructure and economic considerations. Journal of Power Sources, 2017, 367, 237-249.	7.8	130
24	Electrolyzers Enhancing Flexibility in Electric Grids. Energies, 2017, 10, 1836.	3.1	27
25	Empirical study of simulation fidelity in geographically distributed real-time simulations. , 2017, , .		6
26	Quantifying power distribution system resiliency using code based metric. , 2016, , .		7
27	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
28	Dynamic analysis of concentrated solar supercritical CO2-based power generation closed-loop cycle. Applied Thermal Engineering, 2016, 93, 920-934.	6.0	88
29	Temperature and Pressure Drop Model for Gaseous Helium Cooled Superconducting DC Cables. IEEE Transactions on Applied Superconductivity, 2013, 23, 5402005-5402005.	1.7	9
30	Thermal Modeling of Helium Cooled High-Temperature Superconducting DC Transmission Cable. IEEE Transactions on Applied Superconductivity, 2011, 21, 947-952.	1.7	15