Ram Machlev

List of Publications by Year
in descending order

15 papers	455 citations	933264 10 h-index	1199470 12 g-index
15 all docs	15 docs citations	15 times ranked	377 citing authors

#	Article	IF	Citations
1	Explainable Artificial Intelligence (XAI) techniques for energy and power systems: Review, challenges and opportunities. Energy and AI, 2022, 9, 100169.	5.8	97
2	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
3	Effects of the COVID-19 Pandemic on Energy Systems and Electric Power Grids—A Review of the Challenges Ahead. Energies, 2021, 14, 1056.	1.6	65
4	Modified Cross-Entropy Method for Classification of Events in NILM Systems. IEEE Transactions on Smart Grid, 2019, 10, 4962-4973.	6.2	39
5	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
6	MO-NILM: A multi-objective evolutionary algorithm for NILM classification. Energy and Buildings, 2019, 199, 134-144.	3.1	32
7	Applications of Game Theory to Design and Operation of Modern Power Systems: A Comprehensive Review. Energies, 2020, 13, 3982.	1.6	25
8	Virtual Inertia Control Methods in Islanded Microgrids. Energies, 2021, 14, 1562.	1.6	23
9	Dimension reduction for NILM classification based on principle component analysis. Electric Power Systems Research, 2020, 187, 106459.	2.1	22
10	Measuring Explainability and Trustworthiness of Power Quality Disturbances Classifiers Using XAI—Explainable Artificial Intelligence. IEEE Transactions on Industrial Informatics, 2022, 18, 5127-5137.	7.2	20
11	Verification of Utility-Scale Solar Photovoltaic Plant Models for Dynamic Studies of Transmission Networks. Energies, 2020, 13, 3191.	1.6	10
12	Harmonic Loads Classification by Means of Currents' Physical Components. Energies, 2019, 12, 4137.	1.6	3
13	Explainable AI based Fault Detection and Diagnosis System for Air Handling Units. , 2022, , .		1
14	Nearest Neighbor MPPT with Cross-Entropy Method optimization. , 2018, , .		0
15	ARPM: Additive, Retentive Penalty Method for Multidimensional NILM Algorithms. , 2018, , .		0