

# Aristides E Kiprakis

## List of Publications by Year in descending order

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54  
papers

1,921  
citations

516215

16  
h-index

433756

31  
g-index

55  
all docs

55  
docs citations

55  
times ranked

2072  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Low Cost Oscillating Membrane for Underwater Applications at Low Reynolds Numbers. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 77.	1.2	0
2	Smart contracts in energy systems: A systematic review of fundamental approaches and implementations. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 158, 112013.	8.2	95
3	Robust validation of a generalised actuator disk CFD model for tidal turbine analysis using the FloWave ocean energy research facility. <i>Renewable Energy</i> , 2022, 190, 232-250.	4.3	15
4	Beyond cost reduction: improving the value of energy storage in electricity systems. , 2022, 1, .		10
5	Impact of the COVID-19 Lockdown on the Electricity System of Great Britain: A Study on Energy Demand, Generation, Pricing and Grid Stability. <i>Energies</i> , 2021, 14, 635.	1.6	15
6	Experimental Validation of Wave Induced Disturbances for Predictive Station Keeping of a Remotely Operated Vehicle. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 5421-5428.	3.3	19
7	Hydrodynamic loads on a restrained ROV under waves and current. <i>Ocean Engineering</i> , 2021, 234, 109279.	1.9	22
8	Influence of tidal turbine control on performance and loads. <i>Applied Ocean Research</i> , 2021, 114, 102806.	1.8	3
9	Experimental Validation of Unsteady Wave Induced Loads on a Stationary Remotely Operated Vehicle. , 2021, , .		4
10	Reasoning Operational Decisions for Robots via Time Series Causal Inference. , 2021, , .		1
11	PyPSA meets Africa: Developing an open source electricity network model of the African continent. , 2021, , .		1
12	Experimental Force Data of a Restrained ROV under Waves and Current. <i>Data</i> , 2020, 5, 57.	1.2	22
13	A bottom-up weather-sensitive residential demand model for developing countries. A case study of Abuja, Nigeria. <i>Energy for Sustainable Development</i> , 2020, 58, 138-149.	2.0	0
14	A Nonlinear Model Predictive Controller for Remotely Operated Underwater Vehicles With Disturbance Rejection. <i>IEEE Access</i> , 2020, 8, 158622-158634.	2.6	30
15	Numerical Modelling and Experimental Testing of the Hydrodynamic Characteristics for an Open-Frame Remotely Operated Vehicle. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 688.	1.2	13
16	A Machine Learning Pipeline for Demand Response Capacity Scheduling. <i>Energies</i> , 2020, 13, 1848.	1.6	10
17	Artificial intelligence and machine learning approaches to energy demand-side response: A systematic review. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 130, 109899.	8.2	253
18	Experimental Assessment of Flow, Performance, and Loads for Tidal Turbines in a Closely-Spaced Array. <i>Energies</i> , 2020, 13, 1977.	1.6	26

#	ARTICLE	IF	CITATIONS
19	Techno-economic potential of battery energy storage systems in frequency response and balancing mechanism actions. Journal of Engineering, 2020, 2020, 774-782.	0.6	7
20	Investigating PID Control for Station Keeping ROVs. , 2020, , .		7
21	Optimal co-placement method considering non-homogeneous PMU channel capacities. IET Smart Grid, 2020, 3, 626-637.	1.5	3
22	Development of a Hardware in-the-Loop Co-Simulation Platform for Smart Distribution Networks. , 2020, , .		0
23	Impact of Thruster Dynamics on the Feasibility of ROV Station Keeping in Waves. , 2020, , .		5
24	Smart coordination of battery energy storage systems for voltage control in distribution networks with high penetration of photovoltaics. Journal of Engineering, 2019, 2019, 4738-4742.	0.6	4
25	Smart coordination schemes for multiple battery energy storage systems for support in distribution networks with high penetration of photovoltaics. IET Smart Grid, 2019, 2, 347-354.	1.5	6
26	Human in the loop heterogeneous modelling of thermostatically controlled loads for demand side management studies. Energy, 2018, 145, 754-769.	4.5	10
27	Integrated Energy Management Framework for Environmentally Sustainable Energy Access. , 2018, , .		1
28	An optimisation framework for thermal energy storage integration in a residential heat pump heating system. Applied Energy, 2017, 186, 520-529.	5.1	132
29	Economical distributed voltage control in low-voltage grids with high penetration of photovoltaic. CIREN - Open Access Proceedings Journal, 2017, 2017, 1722-1725.	0.1	15
30	Demand response for thermostatically controlled loads using belief propagation. , 2017, , .		1
31	Electrical Components for Marine Renewable Energy Arrays: A Techno-Economic Review. Energies, 2017, 10, 1973.	1.6	12
32	Direct drive wave energy array with offshore energy storage supplying off-grid residential load. IET Renewable Power Generation, 2017, 11, 1081-1088.	1.7	11
33	Optimising power transmission options for marine energy converter farms. International Journal of Marine Energy, 2016, 15, 127-139.	1.8	8
34	The impact of renewable energy resources on the electricity prices of the United Kingdom. , 2016, , .		2
35	Assessment of the Cost and Environmental Impact of Residential Demand-Side Management. IEEE Transactions on Industry Applications, 2016, 52, 2486-2495.	3.3	31
36	A Fully Coupled Wave-to-Wire Model of an Array of Wave Energy Converters. IEEE Transactions on Sustainable Energy, 2016, 7, 118-128.	5.9	52

#	ARTICLE	IF	CITATIONS
37	A Numerical and Graphical Review of Energy Storage Technologies. <i>Energies</i> , 2015, 8, 172-216.	1.6	219
38	Assessment of an ADCP's capabilities in laboratory conditions. , 2015, , .		2
39	A multi-objective approach for optimal prioritization of energy efficiency measures in buildings: Model, software and case studies. <i>Applied Energy</i> , 2015, 139, 131-150.	5.1	93
40	A Roadmap for Domestic Load Modelling for Large-Scale Demand Management within Smart Grids. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 33-47.	0.2	0
41	Agent-Based Models for Electricity Markets Accounting for Smart Grid Participation. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 48-57.	0.2	1
42	Simulating the time-varying harmonics of the residential load sector. , 2014, , .		7
43	Assessment of the cost and environmental impact of demand side management on residential sector. , 2014, , .		3
44	Development of Low-Voltage Load Models for the Residential Load Sector. <i>IEEE Transactions on Power Systems</i> , 2014, 29, 2180-2188.	4.6	133
45	Voltage control of UK residential customers for power reduction. , 2013, , .		8
46	A Statistical Survey of the UK Residential Sector Electrical Loads. <i>International Journal of Emerging Electric Power Systems</i> , 2013, 14, 509-523.	0.6	11
47	A diamagnetically stabilized magnetically levitated flywheel battery. , 2013, , .		3
48	Multi-scale electrical load modelling for demand-side management. , 2012, , .		10
49	Modelling the electrical loads of UK residential energy users. , 2012, , .		14
50	Multi-scale dynamic modeling to maximize demand side management. , 2011, , .		7
51	Modelling arrays of wave energy converters connected to weak rural electricity networks. , 2009, , .		4
52	Efficiency and dynamic performance of Digital Displacement, hydraulic transmission in tidal current energy converters. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2007, 221, 207-218.	0.8	55
53	Centralized and Distributed Voltage Control: Impact on Distributed Generation Penetration. <i>IEEE Transactions on Power Systems</i> , 2007, 22, 476-483.	4.6	441
54	Maximising energy capture from distributed generators in weak networks. <i>IET Generation, Transmission and Distribution</i> , 2004, 151, 611.	1.1	64