

Peter D Lund

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

3,147
citations

331670

21
h-index

454955

30
g-index

32
all docs

32
docs citations

32
times ranked

3644
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of energy system flexibility measures to enable high levels of variable renewable electricity. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 45, 785-807.	16.4	1,133
2	A model for generating household electricity load profiles. <i>International Journal of Energy Research</i> , 2006, 30, 273-290.	4.5	398
3	Stability assessment of alternative platinum free counter electrodes for dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2015, 8, 3495-3514.	30.8	225
4	Effects of large-scale photovoltaic power integration on electricity distribution networks. <i>Renewable Energy</i> , 2007, 32, 216-234.	8.9	210
5	Options for improving the load matching capability of distributed photovoltaics: Methodology and application to high-latitude data. <i>Solar Energy</i> , 2009, 83, 1953-1966.	6.1	129
6	Improved flexibility with large-scale variable renewable power in cities through optimal demand side management and power-to-heat conversion. <i>Energy Conversion and Management</i> , 2016, 126, 649-661.	9.2	122
7	Effect of energy storage on variations in wind power. <i>Wind Energy</i> , 2005, 8, 421-441.	4.2	102
8	A review of demand side flexibility potential in Northern Europe. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 91, 654-664.	16.4	95
9	Energy integration and interaction between buildings and vehicles: A state-of-the-art review. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 114, 109337.	16.4	85
10	Review of modelling energy transitions pathways with application to energy system flexibility. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 101, 440-452.	16.4	82
11	Flexibility of electric vehicles and space heating in net zero energy houses: an optimal control model with thermal dynamics and battery degradation. <i>Applied Energy</i> , 2017, 190, 800-812.	10.1	75
12	Modeling flexibility and optimal use of existing power plants with large-scale variable renewable power schemes. <i>Energy</i> , 2016, 112, 364-375.	8.8	62
13	Analyzing National and Local Pathways to Carbon-Neutrality from Technology, Emissions, and Resilience Perspectives—Case of Finland. <i>Energies</i> , 2019, 12, 949.	3.1	57
14	Single-Walled Carbon Nanotube Thin-Film Counter Electrodes for Indium Tin Oxide-Free Plastic Dye Solar Cells. <i>Journal of the Electrochemical Society</i> , 2010, 157, B1831.	2.9	50
15	Models for generating place and time dependent urban energy demand profiles. <i>Applied Energy</i> , 2014, 130, 256-264.	10.1	45
16	Status and future strategies for Concentrating Solar Power in China. <i>Energy Science and Engineering</i> , 2017, 5, 100-109.	4.0	36
17	Different flexibility options for better system integration of wind power. <i>Energy Strategy Reviews</i> , 2019, 26, 100368.	7.3	33
18	Effect of major policy disruptions in energy system transition: Case Finland. <i>Energy Policy</i> , 2018, 116, 323-336.	8.8	25

#	ARTICLE	IF	CITATIONS
19	Pathway Analysis of a Zero-Emission Transition in the Nordic-Baltic Region. <i>Energies</i> , 2019, 12, 3337.	3.1	23
20	Highly conductive, non-permeable, fiber based substrate for counter electrode application in dye-sensitized solar cells. <i>Nano Energy</i> , 2014, 9, 212-220.	16.0	22
21	Capacity matching of storage to PV in a global frame with different loads profiles. <i>Journal of Energy Storage</i> , 2018, 18, 218-228.	8.1	22
22	Coupling Variable Renewable Electricity Production to the Heating Sector through Curtailment and Power-to-heat Strategies for Accelerated Emission Reduction. <i>Future Cities and Environment</i> , 2019, 5, .	1.6	20
23	Beyond hydrophobicity: how F4-TCNQ doping of the hole transport material improves stability of mesoporous triple-cation perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11721-11731.	10.3	19
24	Improving catalyst stability in nano-structured solar and fuel cells. <i>Catalysis Today</i> , 2016, 259, 259-265.	4.4	17
25	Thermal Performance Analysis of a Direct-Heated Recompression Supercritical Carbon Dioxide Brayton Cycle Using Solar Concentrators. <i>Energies</i> , 2019, 12, 4358.	3.1	15
26	A hybrid lithium-ion battery model for system-level analyses. <i>International Journal of Energy Research</i> , 2016, 40, 1576-1592.	4.5	14
27	Extreme sensitivity of dye solar cells to UV-induced degradation. <i>Energy Science and Engineering</i> , 2021, 9, 19-26.	4.0	11
28	Linking socio-economic aspects to power system disruption models. <i>Energy</i> , 2021, 222, 119928.	8.8	8
29	Energy system impact of wind power with curtailment: national- and city-scale analysis. <i>International Journal of Low-Carbon Technologies</i> , 2019, 14, 277-285.	2.6	6
30	Improving the Economics of Battery Storage. <i>Joule</i> , 2020, 4, 2543-2545.	24.0	6