

# Peter D Lund

## List of Publications by Year in descending order

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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	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
2	Extreme sensitivity of dye solar cells to UV-induced degradation. <i>Energy Science and Engineering</i> , 2021, 9, 19-26.	4.0	11
3	Linking socio-economic aspects to power system disruption models. <i>Energy</i> , 2021, 222, 119928.	8.8	8
4	Improving the Economics of Battery Storage. <i>Joule</i> , 2020, 4, 2543-2545.	24.0	6
5	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
6	Pathway Analysis of a Zero-Emission Transition in the Nordic-Baltic Region. <i>Energies</i> , 2019, 12, 3337.	3.1	23
7	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
8	Different flexibility options for better system integration of wind power. <i>Energy Strategy Reviews</i> , 2019, 26, 100368.	7.3	33
9	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
10	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
11	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
12	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
13	Effect of major policy disruptions in energy system transition: Case Finland. <i>Energy Policy</i> , 2018, 116, 323-336.	8.8	25
14	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
15	A review of demand side flexibility potential in Northern Europe. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 91, 654-664.	16.4	95
16	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
17	Status and future strategies for Concentrating Solar Power in China. <i>Energy Science and Engineering</i> , 2017, 5, 100-109.	4.0	36
18	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

#	ARTICLE	IF	CITATIONS
19	A hybrid lithium-ion battery model for system-level analyses. International Journal of Energy Research, 2016, 40, 1576-1592.	4.5	14
20	Improved flexibility with large-scale variable renewable power in cities through optimal demand side management and power-to-heat conversion. Energy Conversion and Management, 2016, 126, 649-661.	9.2	122
21	Improving catalyst stability in nano-structured solar and fuel cells. Catalysis Today, 2016, 259, 259-265.	4.4	17
22	Review of energy system flexibility measures to enable high levels of variable renewable electricity. Renewable and Sustainable Energy Reviews, 2015, 45, 785-807.	16.4	1,133
23	Stability assessment of alternative platinum free counter electrodes for dye-sensitized solar cells. Energy and Environmental Science, 2015, 8, 3495-3514.	30.8	225
24	Highly conductive, non-permeable, fiber based substrate for counter electrode application in dye-sensitized solar cells. Nano Energy, 2014, 9, 212-220.	16.0	22
25	Models for generating place and time dependent urban energy demand profiles. Applied Energy, 2014, 130, 256-264.	10.1	45
26	Single-Walled Carbon Nanotube Thin-Film Counter Electrodes for Indium Tin Oxide-Free Plastic Dye Solar Cells. Journal of the Electrochemical Society, 2010, 157, B1831.	2.9	50
27	Options for improving the load matching capability of distributed photovoltaics: Methodology and application to high-latitude data. Solar Energy, 2009, 83, 1953-1966.	6.1	129
28	Effects of large-scale photovoltaic power integration on electricity distribution networks. Renewable Energy, 2007, 32, 216-234.	8.9	210
29	A model for generating household electricity load profiles. International Journal of Energy Research, 2006, 30, 273-290.	4.5	398
30	Effect of energy storage on variations in wind power. Wind Energy, 2005, 8, 421-441.	4.2	102