Peter Lund

List of Publications by Year
in descending order

360 papers	15,616 citations	18482 62 h-index	27406 106 g-index
380 all docs	380 docs citations	380 times ranked	14533 citing authors

#	Article	IF	Citations
1	Novel LaFe2O4 spinel structure with a large oxygen reduction response towards protonic ceramic fuel cell cathode. Journal of Rare Earths, 2023, 41, 413-421.	4.8	13
2	Hybrid heterojunction solar cells based on singleâ€walled carbon nanotubes and amorphous silicon thin films. Wiley Interdisciplinary Reviews: Energy and Environment, 2022, 11, e402.	4.1	2
3	Techno-economic cost assessment of a combined cooling heating and power system coupled to organic Rankine cycle with life cycle method. Energy, 2022, 239, 121939.	8.8	20
4	The policy operations room: Analyzing path-dependent decision-making in wicked socio-ecological disruptions. Safety Science, 2022, 146, 105567.	4.9	5
5	Ideal scheme selection of an integrated conventional and renewable energy system combining multi-objective optimization and matching performance analysis. Energy Conversion and Management, 2022, 251, 114989.	9.2	34
6	A comparative assessment of air quality across European countries using an integrated decision support model. Socio-Economic Planning Sciences, 2022, 81, 101198.	5.0	22
7	Multi-objective optimization of an integrated energy system against energy, supply-demand matching and exergo-environmental cost over the whole life-cycle. Energy Conversion and Management, 2022, 254, 115203.	9.2	39
8	Co-estimating the state of charge and health of lithium batteries through combining a minimalist electrochemical model and an equivalent circuit model. Energy, 2022, 240, 122815.	8.8	60
9	Optimizing the shape of PCM container to enhance the melting process. , 2022, 1, .		4
10	Rapid climate transformation requires transformative policy and science thinkingâ€"An editorial essay. Wiley Interdisciplinary Reviews: Energy and Environment, 2022, 11, .	4.1	1
11	Controlling anodization time to monitor film thickness, phase composition and crystal orientation during anodic growth of TiO2 nanotubes. Electrochemistry Communications, 2022, 134, 107168.	4.7	14
12	Predictive Modeling of Dye Solar Cell Degradation. Solar Rrl, 2022, 6, .	5.8	2
13	Configuration optimization and selection of a photovoltaic-gas integrated energy system considering renewable energy penetration in power grid. Energy Conversion and Management, 2022, 254, 115260.	9.2	46
14	Highly active titanium oxide photocathode for photoelectrochemical water reduction in alkaline solution. Journal of Power Sources, 2022, 524, 231095.	7.8	6
15	Mutual Conversion of COâ€"CO₂ on a Perovskite Fuel Electrode with Endogenous Alloy Nanoparticles for Reversible Solid Oxide Cells. ACS Applied Materials & Interfaces, 2022, 14, 9138-9150.	8.0	52
16	Reduced TiO2 nanotube array as an excellent cathode for hydrogen evolution reaction in alkaline solution. Catalysis Today, 2022, 402, 3-9.	4.4	6
17	Comment on â€œHow green is blue hydrogen?â€. Energy Science and Engineering, 2022, 10, 1944-1954.	4.0	23
18	Exergo-environmental cost optimization of a solar-based cooling and heating system considering equivalent emissions of life-cycle chain. Energy Conversion and Management, 2022, 258, 115534.	9.2	10

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19	Encapsulation of commercial and emerging solar cells with focus on perovskite solar cells. Solar Energy, 2022, 237, 264-283.	6.1	35
20	A review on solid oxide fuel cell durability: Latest progress, mechanisms, and study tools. Renewable and Sustainable Energy Reviews, 2022, 161, 112339.	16.4	116
21	Energy, environmental-based cost, and solar share comparisons of a solar driven cooling and heating system with different types of building. Applied Thermal Engineering, 2022, 211, 118435.	6.0	10
22	Multi-objective optimization of a solar-driven trigeneration system considering power-to-heat storage and carbon tax. Energy, 2022, 250, 123756.	8.8	28
23	Improving the accuracy of predicting the performance of solar collectors through clustering analysis with artificial neural network models. Energy Reports, 2022, 8, 3970-3981.	5.1	14
24	Beyond hydrophobicity: how F4-TCNQ doping of the hole transport material improves stability of mesoporous triple-cation perovskite solar cells. Journal of Materials Chemistry A, 2022, 10, 11721-11731.	10.3	19
25	Optimization of a weather-based energy system for high cooling and low heating conditions using different types of water-cooled chiller. Energy, 2022, 252, 124094.	8.8	10
26	Synergistic effect of sodium content for tuning Sm2O3 as a stable electrolyte in proton ceramic fuel cells. Renewable Energy, 2022, 193, 608-616.	8.9	13
27	Optical, thermal and thermo-mechanical model for a larger-aperture parabolic trough concentrator system consisting of a novel flat secondary reflector and an improved absorber tube. Solar Energy, 2022, 240, 376-387.	6.1	8
28	Demonstrating the potential of iron-doped strontium titanate electrolyte with high-performance for low temperature ceramic fuel cells. Renewable Energy, 2022, 196, 901-911.	8.9	22
29	Thermo-ecological cost optimization of a solar thermal and photovoltaic integrated energy system considering energy level. Sustainable Production and Consumption, 2022, 33, 298-311.	11.0	3
30	TiO₂ nanotubes for dyeâ€sensitized solar cellsâ€"A review. Energy Science and Engineering, 2021, 9, 921-937.	4.0	51
31	Electrochemical impact of the carbonate in ceria-carbonate composite for low temperature solid oxide fuel cell. International Journal of Hydrogen Energy, 2021, 46, 9898-9904.	7.1	6
32	Coking resistant Niâ€"La0.8Sr0.2FeO3 composite anode improves the stability of syngas-fueled SOFC. International Journal of Hydrogen Energy, 2021, 46, 9809-9817.	7.1	15
33	Extreme sensitivity of dye solar cells to UVâ€induced degradation. Energy Science and Engineering, 2021, 9, 19-26.	4.0	11
34	Importance of Energy Efficiency in Manufacturing Industries for Climate and Competitiveness. Environmental and Climate Technologies, 2021, 25, 306-317.	1.4	5
35	How to Assess Policy Impact in National Energy and Climate Plans. Environmental and Climate Technologies, 2021, 25, 405-421.	1.4	11
36	Investigation of factors affecting the performance of a single-layer nanocomposite fuel cell. Catalysis Today, 2021, 364, 104-110.	4.4	9

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37	Performance analysis and exergo-economic optimization of a solar-driven adjustable tri-generation system. Energy Conversion and Management, 2021, 233, 113873.	9.2	42
38	Combining CFD and artificial neural network techniques to predict the thermal performance of all-glass straight evacuated tube solar collector. Energy, 2021, 220, 119713.	8.8	23
39	Comparative study of modelling the thermal efficiency of a novel straight through evacuated tube collector with MLR, SVR, BP and RBF methods. Sustainable Energy Technologies and Assessments, 2021, 44, 101029.	2.7	10
40	Comparative study of heat transfer enhancement using different fins in semi-circular absorber tube for large-aperture trough solar concentrator. Renewable Energy, 2021, 169, 1229-1241.	8.9	22
41	Linking socio-economic aspects to power system disruption models. Energy, 2021, 222, 119928.	8.8	8
42	Novel Perovskite Semiconductor Based on Co/Fe-Codoped LBZY (La_{0.5}Ba_{0.5}) Tj ETQq0 0 0 rgBT /Overlock 10 Electrolyte in Ceramic Fuel Cells. ACS Applied Energy Materials, 2021, 4, 5798-5808.	5.1	36
43	Integrated performance analysis of a space heating system assisted by photovoltaic/thermal collectors and ground source heat pump for hotel and office building types. Renewable Energy, 2021, 169, 925-934.	8.9	40
44	Thermodynamic Analysis of a Conceptual Fixed-Bed Solar Thermochemical Cavity Receiverâ€"Reactor Array for Water Splitting Via Ceria Redox Cycling. Frontiers in Energy Research, 2021, 9, .	2.3	4
45	The role of micro-nano pores in interfacial solar evaporation systems â€" A review. Applied Energy, 2021, 292, 116871.	10.1	44
46	Thermodynamic performance analysis and modified thermo-ecological cost optimization of a hybrid district heating system considering energy levels. Energy, 2021, 224, 120067.	8.8	20
47	Estimation and prediction of state of health of electric vehicle batteries using discrete incremental capacity analysis based on real driving data. Energy, 2021, 225, 120160.	8.8	34
48	Low-temperature solid oxide fuel cells based on Tm-doped SrCeO2-Î´ semiconductor electrolytes. Materials Today Energy, 2021, 20, 100661.	4.7	17
49	Sustainable urban infrastructure in China. Wiley Interdisciplinary Reviews: Energy and Environment, 2021, 10, e411.	4.1	0
50	Tailoring triple charge conduction in BaCo0.2Fe0.1Ce0.2Tm0.1Zr0.3Y0.1O3â^'Î´ semiconductor electrolyte for boosting solid oxide fuel cell performance. Renewable Energy, 2021, 172, 336-349.	8.9	26
51	Improving stability and heat transfer through a beam in a semi-circular absorber tube of a large-aperture trough solar concentrator. Energy, 2021, 228, 120614.	8.8	6
52	Low temperature ceramic fuel cells employing lithium compounds: A review. Journal of Power Sources, 2021, 503, 230070.	7.8	26
53	Advanced LT-SOFC Based on Reconstruction of the Energy Band Structure of the LiNi_{0.8}Co_{0.15}Al_{0.05}O₂â€"Sm_{0.2}Ce_{0.8}O_{2-Î´} Heterostructure for Fast Ionic Transport. ACS Applied Energy Materials, 2021, 4, 8922-8932.	5.1	9
54	Could Europe become the first climate-neutral continent?. Nature, 2021, 596, 486-486.	27.8	5

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55	Exergo-economic assessment and sensitivity analysis of a solar-driven combined cooling, heating and power system with organic Rankine cycle and absorption heat pump. Energy, 2021, 230, 120717.	8.8	39
56	Characteristics of natural convection in n-eicosane in a square cavity with discrete heat source. Case Studies in Thermal Engineering, 2021, 27, 101245.	5.7	7
57	Energy system resilience â€“ A review. Renewable and Sustainable Energy Reviews, 2021, 150, 111476.	16.4	81
58	Exergo-environmental cost optimization of a combined cooling, heating and power system using the emergy concept and equivalent emissions as ecological boundary. Energy, 2021, 233, 121124.	8.8	11
59	Interface engineering of bi-layer semiconductor SrCoSnO3-Î´-CeO2-Î´ heterojunction electrolyte for boosting the electrochemical performance of low-temperature ceramic fuel cell. International Journal of Hydrogen Energy, 2021, 46, 33969-33977.	7.1	28
60	Promoted electrocatalytic activity and ionic transport simultaneously in dual functional Ba0.5Sr0.5Fe0.8Sb0.2O3-Î´-Sm0.2Ce0.8O2-Î´ heterostructure. Applied Catalysis B: Environmental, 2021, 298, 120503.	20.2	78
61	Effect of Ti foil size on the micro sizes of anodic TiO2 nanotube array and photoelectrochemical water splitting performance. Chemical Engineering Journal, 2021, 425, 131415.	12.7	18
62	Optimizing research on large-aperture parabolic trough condenser using two kinds of absorber tubes with reflector at 500ÂÂ°C. Renewable Energy, 2021, 179, 2187-2197.	8.9	5
63	Semiconductor Nb-Doped SrTiO_{3â^'Î´} Perovskite Electrolyte for a Ceramic Fuel Cell. ACS Applied Energy Materials, 2021, 4, 365-375.	5.1	30
64	Electrochemical Properties of a Dual-Ion Semiconductor-Ionic Co_{0.2}Zn_{0.8}O-Sm_{0.20}Ce_{0.80}O_{2â^'Î´} Composite for a High-Performance Low-Temperature Solid Oxide Fuel Cell. ACS Applied Energy Materials, 2021, 4, 194-207.	5.1	21
65	Semiconductor Electrochemistry for Clean Energy Conversion and Storage. Electrochemical Energy Reviews, 2021, 4, 757-792.	25.5	77
66	Theoretical study on melting of phase change material by natural convection. Case Studies in Thermal Engineering, 2021, 28, 101620.	5.7	10
67	Systematic Analysis on the Effect of Sintering Temperature for Optimized Performance of LiNiZnO-GdCeO-LiCO-NaCO-KCO Based 3D Printed Single-Layer Ceramic Fuel Cell. Nanomaterials, 2021, 11, .	4.1	0
68	Systematic Analysis on the Effect of Sintering Temperature for Optimized Performance of Li0.15Ni0.45Zn0.4O2-Gd0.2Ce0.8O2-Li2CO3-Na2CO3-K2CO3 Based 3D Printed Single-Layer Ceramic Fuel Cell. Nanomaterials, 2021, 11, 2180.	4.1	2
69	Nanocrystalline Surface Layer of WO3 for Enhanced Proton Transport during Fuel Cell Operation. Crystals, 2021, 11, 1595.	2.2	7
70	Rational design of highly efficient flexible and transparent p-type composite electrode based on single-walled carbon nanotubes. Nano Energy, 2020, 67, 104183.	16.0	29
71	Improving renewable energy policy planning and decision-making through a hybrid MCDM method. Energy Policy, 2020, 137, 111174.	8.8	169
72	Modeling of Zinc Bromine redox flow battery with application to channel design. Journal of Power Sources, 2020, 450, 227436.	7.8	16

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73	Adhesion of Single-Walled Carbon Nanotube Thin Films with Different Materials. Journal of Physical Chemistry Letters, 2020, 11, 504-509.	4.6	8
74	Functional ceria-based nanocomposites for advanced low-temperature (300â€“600ÂÂ°C) solid oxide fuel cell: A comprehensive review. Materials Today Energy, 2020, 15, 100373.	4.7	48
75	Modelling city-scale transient district heat demand by combining physical and data-driven approach. Applied Thermal Engineering, 2020, 178, 115590.	6.0	6
76	Non-doped CeO2-carbonate nanocomposite electrolyte for low temperature solid oxide fuel cells. Ceramics International, 2020, 46, 29290-29296.	4.8	23
77	Outlook on biofuels in future studies: A systematic literature review. Renewable and Sustainable Energy Reviews, 2020, 134, 110326.	16.4	81
78	Application of a Triple-Conducting Heterostructure Electrolyte of Ba_{0.5}Sr_{0.5}Co_{0.1}Fe_{0.7}Zr_{0.1}Y_{0.1}O_{3âˆ’Î´} and Ca_{0.04}Ce_{0.80}Sm_{0.16}O_{2âˆ’Î´} in a High-Performance Low-Temperature Solid Oxide Fuel Cell. ACS Applied Materials & Interfaces, 2020, 12, 35071-35080.	8.0	84
79	Improving the performance of large-aperture parabolic trough solar concentrator using semi-circular absorber tube with external fin and flat-plate radiation shield. Renewable Energy, 2020, 159, 1215-1223.	8.9	25
80	Improving the Economics of Battery Storage. Joule, 2020, 4, 2543-2545.	24.0	6
81	Performance evaluation of complex electricity generation systems: A dynamic network-based data envelopment analysis approach. Energy Economics, 2020, 91, 104894.	12.1	55
82	Optical Design of a Novel Two-Stage Dish Applied to Thermochemical Water/CO2 Splitting with the Concept of Rotary Secondary Mirror. Energies, 2020, 13, 3553.	3.1	2
83	The effect of dodecylammonium chloride on the film morphology, crystallinity, and performance of lead-free Bi-based solution-processed photovoltaics devices. Solar Energy, 2020, 207, 1356-1363.	6.1	18
84	Improving the state of charge estimation of reused lithium-ion batteries by abating hysteresis using machine learning technique. Journal of Energy Storage, 2020, 32, 101678.	8.1	42
85	Influence of sintering temperature on ceramic fuel cell electrolyte conductivity with lithium-compound electrode. Ceramics International, 2020, 46, 17545-17552.	4.8	19
86	Carbonate dual-phase improves the performance of single-layer fuel cell made from mixed ionic and semiconductor composite. BMC Energy, 2020, 2, .	6.3	2
87	Effect of Heat Demand on Integration of Urban Large-Scale Renewable Schemesâ€”Case of Helsinki City (60 Â°N). Energies, 2020, 13, 2164.	3.1	6
88	Sustainability evaluation and sensitivity analysis of district heating systems coupled to geothermal and solar resources. Energy Conversion and Management, 2020, 220, 113084.	9.2	67
89	Thermodynamic performance analysis and multi-criteria optimization of a hybrid combined heat and power system coupled with geothermal energy. Energy Conversion and Management, 2020, 210, 112741.	9.2	61
90	A Review of the Compound Parabolic Concentrator (CPC) with a Tubular Absorber. Energies, 2020, 13, 695.	3.1	18

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91	Little time left to reverse emissionsâ€"Growing hope despite disappointing CO₂ trend. Wiley Interdisciplinary Reviews: Energy and Environment, 2020, 9, e369.	4.1	3
92	Improving the performance of a 2-stage large aperture parabolic trough solar concentrator using a secondary reflector designed by adaptive method. Renewable Energy, 2020, 152, 23-33.	8.9	45
93	Stability of cobalt complex based dye solar cells with PEDOT and Pt catalysts and different electrolyte concentrations. Electrochimica Acta, 2020, 335, 135652.	5.2	16
94	Deep decarbonization of urban energy systems through renewable energy and sector-coupling flexibility strategies. Journal of Environmental Management, 2020, 260, 110090.	7.8	60
95	A novel clustering algorithm for grouping and cascadeÂutilization of retired Li-ion batteries. Journal of Energy Storage, 2020, 29, 101303.	8.1	35
96	Climate-friendly but socially rejected energy-transition pathways: The integration of techno-economic and socio-technical approaches in the Nordic-Baltic region. Energy Research and Social Science, 2020, 67, 101559.	6.4	50
97	Mechanism for Major Improvement in SOFC Electrolyte Conductivity When Using Lithium Compounds as Anode. ACS Applied Energy Materials, 2020, 3, 4134-4138.	5.1	39
98	Straight-through all-glass evacuated tube solar collector for low and medium temperature applications. Solar Energy, 2020, 201, 935-943.	6.1	29
99	Analyzing the effects of uncertainties on the modelling of low-carbon energy system pathways. Energy, 2020, 201, 117652.	8.8	28
100	Review of zinc dendrite formation in zinc bromine redox flow battery. Renewable and Sustainable Energy Reviews, 2020, 127, 109838.	16.4	75
101	Semiconductor Fe-doped SrTiO3-Î´ perovskite electrolyte for low-temperature solid oxide fuel cell (LT-SOFC) operating below 520ÂÂ°C. International Journal of Hydrogen Energy, 2020, 45, 14470-14479.	7.1	52
102	Printed single-walled carbon-nanotubes-based counter electrodes for dye-sensitized solar cells with copper-based redox mediators. Semiconductor Science and Technology, 2019, 34, 105001.	2.0	17
103	A facile method to produce TiO2 nanorods for high-efficiency dye solar cells. Journal of Power Sources, 2019, 438, 227012.	7.8	23
104	Modelling and performance evaluation of an integrated receiver-storage for concentrating solar power beam-down system under heterogeneous radiative conditions. Solar Energy, 2019, 188, 1264-1273.	6.1	5
105	Influence of titanium dioxide surface activation on the performance of mesoscopic perovskite solar cells. Thin Solid Films, 2019, 686, 137418.	1.8	4
106	Thermal Performance Analysis of a Direct-Heated Recompression Supercritical Carbon Dioxide Brayton Cycle Using Solar Concentrators. Energies, 2019, 12, 4358.	3.1	15
107	Pathway Analysis of a Zero-Emission Transition in the Nordic-Baltic Region. Energies, 2019, 12, 3337.	3.1	23
108	Energy integration and interaction between buildings and vehicles: A state-of-the-art review. Renewable and Sustainable Energy Reviews, 2019, 114, 109337.	16.4	85

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109	Coral-shaped porous LiFePO4/graphene hybrids for high rate and all-climate battery applications. Energy Storage Materials, 2019, 21, 457-463.	18.0	29
110	Different flexibility options for better system integration of wind power. Energy Strategy Reviews, 2019, 26, 100368.	7.3	33
111	Progress on Electrolytes Development in Dye-Sensitized Solar Cells. Materials, 2019, 12, 1998.	2.9	152
112	Nanocellulose and Nanochitin Cryogels Improve the Efficiency of Dye Solar Cells. ACS Sustainable Chemistry and Engineering, 2019, 7, 10257-10265.	6.7	18
113	High performance integrated receiver-storage system for concentrating solar power beam-down system. Solar Energy, 2019, 187, 85-94.	6.1	15
114	Analyzing National and Local Pathways to Carbon-Neutrality from Technology, Emissions, and Resilience Perspectivesâ€"Case of Finland. Energies, 2019, 12, 949.	3.1	57
115	Energy system impact of wind power with curtailment: national- and city-scale analysis. International Journal of Low-Carbon Technologies, 2019, 14, 277-285.	2.6	6
116	Electrochemical mechanisms of an advanced low-temperature fuel cell with a SrTiO₃ electrolyte. Journal of Materials Chemistry A, 2019, 7, 9638-9645.	10.3	90
117	Sustaining our common future: Transformative, timely, commonsâ€based change is needed. Wiley Interdisciplinary Reviews: Energy and Environment, 2019, 8, e334.	4.1	2
118	Evaluation of the reliability of solar micro-grids in emerging markets â€" Issues and solutions. Energy for Sustainable Development, 2019, 48, 34-42.	4.5	16
119	Review of modelling energy transitions pathways with application to energy system flexibility. Renewable and Sustainable Energy Reviews, 2019, 101, 440-452.	16.4	82
120	Coupling Variable Renewable Electricity Production to the Heating Sector through Curtailment and Power-to-heat Strategies for Accelerated Emission Reduction. Future Cities and Environment, 2019, 5, .	1.6	20
121	Effect of major policy disruptions in energy system transition: Case Finland. Energy Policy, 2018, 116, 323-336.	8.8	25
122	The state of external circuit affects the stability of dye-sensitized solar cells. Electrochimica Acta, 2018, 275, 59-66.	5.2	5
123	Critical analysis on the quality of stability studies of perovskite and dye solar cells. Energy and Environmental Science, 2018, 11, 730-738.	30.8	35
124	Assessing the impact of optical errors in a novel 2-stage dish concentrator using Monte-Carlo ray-tracing simulation. Renewable Energy, 2018, 123, 603-615.	8.9	22
125	Application of dye-sensitized and perovskite solar cells on flexible substrates. Flexible and Printed Electronics, 2018, 3, 013002.	2.7	14
126	Shifting to clean energyâ€"An editorial essay. Wiley Interdisciplinary Reviews: Energy and Environment, 2018, 7, e283.	4.1	1

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127	New developments in fuel cells: From traditional to innovative concepts (Preface for China-Europe) Tj ETQq1 1 0.784314 rgBT /Overlock 12595.	7.1	4
128	Biobased aerogels with different surface charge as electrolyte carrierÂmembranes in quantum dot-sensitized solar cell. Cellulose, 2018, 25, 3363-3375.	4.9	17
129	Validating the technological feasibility of yttria-stabilized zirconia-based semiconducting-ionic composite in intermediate-temperature solid oxide fuel cells. Journal of Power Sources, 2018, 384, 318-327.	7.8	32
130	Reducing convective heat losses in solar dish cavity receivers through a modified air-curtain system. Solar Energy, 2018, 166, 50-58.	6.1	34
131	Modelling energy production flexibility: system dynamics approach. Energy Procedia, 2018, 147, 503-509.	1.8	21
132	Design and performance evaluation of a high-temperature cavity receiver for a 2-stage dish concentrator. Solar Energy, 2018, 174, 1126-1132.	6.1	27
133	Core/shell Cu/FePtCu nanoparticles with face-centered tetragonal texture: An active and stable low-Pt catalyst for enhanced oxygen reduction. Nano Energy, 2018, 54, 280-287.	16.0	22
134	Use of bio-based carbon materials for improving biogas yield and digestate stability. Energy, 2018, 164, 898-909.	8.8	81
135	Wide bandgap oxides for low-temperature single-layered nanocomposite fuel cell. Nano Energy, 2018, 53, 391-397.	16.0	55
136	Power availability and reliability of solar pico-grids in rural areas: A case study from northern India. Sustainable Energy Technologies and Assessments, 2018, 29, 147-154.	2.7	8
137	Microscopic techniques for analysis of ceramic fuel cells. Wiley Interdisciplinary Reviews: Energy and Environment, 2018, 7, e299.	4.1	2
138	Recent progress in flexible dye solar cells. Wiley Interdisciplinary Reviews: Energy and Environment, 2018, 7, e302.	4.1	18
139	Testing dyeâ€sensitized solar cells in harsh northern outdoor conditions. Energy Science and Engineering, 2018, 6, 187-200.	4.0	15
140	Capacity matching of storage to PV in a global frame with different loads profiles. Journal of Energy Storage, 2018, 18, 218-228.	8.1	22
141	Data for global power demand and solar PV output matching. Data in Brief, 2018, 19, 1694-1715.	1.0	1
142	An evaluation of dynamic electricity pricing for solar micro-grids in rural India. Energy Strategy Reviews, 2018, 21, 130-136.	7.3	9
143	Semiconductor-ionic materials could play an important role in advanced fuel-to-electricity conversion. International Journal of Energy Research, 2018, 42, 3413-3415.	4.5	28
144	A review of demand side flexibility potential in Northern Europe. Renewable and Sustainable Energy Reviews, 2018, 91, 654-664.	16.4	95

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145	Comparative analysis of ceramic-carbonate nanocomposite fuel cells using composite GDC/NLC electrolyte with different perovskite structured cathode materials. Frontiers of Chemical Science and Engineering, 2018, 12, 162-173.	4.4	9
146	Global Challenges: Energy. Global Challenges, 2017, 1, 7-8.	3.6	0
147	Frugal energy innovations for developing countries â€“ a framework. Global Challenges, 2017, 1, 9-19.	3.6	26
148	Flexibility of electric vehicles and space heating in net zero energy houses: an optimal control model with thermal dynamics and battery degradation. Applied Energy, 2017, 190, 800-812.	10.1	75
149	Stabilizing Dendron-Modified Talc-Based Electrolyte for Quasi-Solid Dye-Sensitized Solar Cell. Electrochimica Acta, 2017, 228, 413-421.	5.2	7
150	Inkjet-printed platinum counter electrodes for dye-sensitized solar cells. Organic Electronics, 2017, 44, 159-167.	2.6	21
151	A novel 2-stage dish concentrator with improved optical performance for concentrating solar power plants. Renewable Energy, 2017, 108, 92-97.	8.9	35
152	Device stability of perovskite solar cells â€“ A review. Renewable and Sustainable Energy Reviews, 2017, 77, 131-146.	16.4	345
153	Status and future strategies for Concentrating Solar Power in China. Energy Science and Engineering, 2017, 5, 100-109.	4.0	36
154	Charge separation and transport in La 0.6 Sr 0.4 Co 0.2 Fe 0.8 O 3-Î´ and ion-doping ceria heterostructure material for new generation fuel cell. Nano Energy, 2017, 37, 195-202.	16.0	115
155	Impact of Film Thickness of Ultrathin Dip-Coated Compact TiO₂ Layers on the Performance of Mesoscopic Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 17906-17913.	8.0	36
156	Better linkage of smart materials to energy scale. International Journal of Energy Research, 2017, 41, 1369-1371.	4.5	0
157	Gel Electrolytes with Polyamidopyridine Dendron Modified Talc for Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 20454-20466.	8.0	8
158	Implications of Finland's plan to ban coal and cutting oil use. Energy Policy, 2017, 108, 78-80.	8.8	13
159	High conductive (LiNaK) 2 CO 3 Ce 0.85 Sm 0.15 O 2 electrolyte compositions for IT-SOFC applications. International Journal of Hydrogen Energy, 2017, 42, 20904-20909.	7.1	29
160	Clean energy transitionâ€”our urgent challenge: an editorial assay. Wiley Interdisciplinary Reviews: Energy and Environment, 2017, 6, e243.	4.1	5
161	Bridging new and old energy. International Journal of Energy Research, 2017, 41, 3-5.	4.5	1
162	Water and Energy â€“ Interconnections and Conflicts. Global Challenges, 2017, 1, 1700056.	3.6	4

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163	Impact of H₂O on organicâ€“inorganic hybrid perovskite solar cells. Energy and Environmental Science, 2017, 10, 2284-2311.	30.8	345
164	Long-Term Stability of Dye-Sensitized Solar Cells Assembled with Cobalt Polymer Gel Electrolyte. Journal of Physical Chemistry C, 2017, 121, 17577-17585.	3.1	28
165	Advanced low-temperature ceramic nanocomposite fuel cells using ultra high ionic conductivity electrolytes synthesized through freeze-dried method and solid-route. Materials Today Energy, 2017, 5, 338-346.	4.7	38
166	Standardized Procedures Important for Improving Single-Component Ceramic Fuel Cell Technology. ACS Energy Letters, 2017, 2, 2752-2755.	17.4	30
167	Air Processed Inkjet Infiltrated Carbon Based Printed Perovskite Solar Cells with High Stability and Reproducibility. Advanced Materials Technologies, 2017, 2, 1600183.	5.8	137
168	Global Challenges - an innovative journal for tackling humanity's major challenges. Global Challenges, 2017, 1, 3-4.	3.6	2
169	Influence of TiO2 compact layer precursor on the performance of perovskite solar cells. Organic Electronics, 2017, 41, 287-293.	2.6	39
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