Simon C Parkinson

List of Publications by Year
in descending order

39	2,209	279487 23	329751 37
papers	citations	h-index	g-index

41	41	41	2776
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Energy investment needs for fulfilling the Paris Agreement and achieving the Sustainable Development Goals. Nature Energy, 2018, 3, 589-599.	19.8	377
2	Connecting the sustainable development goals by their energy inter-linkages. Environmental Research Letters, 2018, 13, 033006.	2.2	263
3	Global exposure and vulnerability to multi-sector development and climate change hotspots. Environmental Research Letters, 2018, 13, 055012.	2.2	162
4	Global resource potential of seasonal pumped hydropower storage for energy and water storage. Nature Communications, 2020, 11, 947.	5.8	121
5	Online voltage security assessment considering comfort-constrained demand response control of distributed heat pump systems. Applied Energy, 2012, 96, 104-114.	5.1	108
6	Hierarchical market integration of responsive loads as spinning reserve. Applied Energy, 2013, 104, 229-238.	5.1	77
7	Energy sector water use implications of a 2 Â°C climate policy. Environmental Research Letters, 2016, 11, 034011.	2.2	72
8	Spatial and temporal synchronization of water and energy systems: Towards a single integrated optimization model for long-term resource planning. Applied Energy, 2018, 210, 499-517.	5.1	72
9	A high-resolution gridded dataset to assess electrification in sub-Saharan Africa. Scientific Data, 2019, 6, 110.	2.4	65
10	A multi-criteria model analysis framework for assessing integrated water-energy system transformation pathways. Applied Energy, 2018, 210, 477-486.	5.1	57
11	A Continentalâ€Scale Hydroeconomic Model for Integrating Waterâ€Energyâ€Land Nexus Solutions. Water Resources Research, 2018, 54, 7511-7533.	1.7	57
12	Co-designing Indus Water-Energy-Land Futures. One Earth, 2019, 1, 185-194.	3.6	54
13	Comfort-Constrained Distributed Heat Pump Management. Energy Procedia, 2011, 12, 849-855.	1.8	49
14	Balancing clean water-climate change mitigation trade-offs. Environmental Research Letters, 2019, 14, 014009.	2.2	48
15	Transboundary cooperation a potential route to sustainable development in the Indus basin. Nature Sustainability, 2021, 4, 331-339.	11.5	47
16	Satellite Observations Reveal Inequalities in the Progress and Effectiveness of Recent Electrification in Sub-Saharan Africa. One Earth, 2020, 2, 364-379.	3.6	40
17	Vulnerability of existing and planned coal-fired power plants in Developing Asia to changes in climate and water resources. Energy and Environmental Science, 2019, 12, 3164-3181.	15.6	38
18	Integrating ocean wave energy at large-scales: A study of the US Pacific Northwest. Renewable Energy, 2015, 76, 551-559.	4.3	35

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19	Spatial analysis of energy use and GHG emissions from cereal production in India. Science of the Total Environment, 2019, 654, 841-849.	3.9	35
20	Energy efficient communication networks design for demand response in smart grid. , 2011, , .		32
21	Robust response to hydro-climatic change in electricity generation planning. Climatic Change, 2015, 130, 475-489.	1.7	32
22	A reduced-form approach for representing the impacts of wind and solar PV deployment on the structure and operation of the electricity system. Energy Economics, 2017, 64, 651-664.	5.6	31
23	The NExus Solutions Tool (NEST) v1.0: an open platform for optimizing multi-scale energyâ€“waterâ€“land system transformations. Geoscientific Model Development, 2020, 13, 1095-1121.	1.3	31
24	Active power regulation of wind power systems through demand response. Science China Technological Sciences, 2012, 55, 1667-1676.	2.0	26
25	Wind integration in self-regulating electric load distributions. Energy Systems, 2012, 3, 341-377.	1.8	24
26	Climate and human development impacts on municipal water demand: A spatially-explicit global modeling framework. Environmental Modelling and Software, 2016, 85, 266-278.	1.9	24
27	Integrated Solutions for the Water-Energy-Land Nexus: Are Global Models Rising to the Challenge?. Water (Switzerland), 2019, 11, 2223.	1.2	24
28	A test bed for self-regulating distribution systems: Modeling integrated renewable energy and demand response in the GridLAB-D/MATLAB environment. , 2012, , .		23
29	Impacts of Groundwater Constraints on Saudi Arabiaâ€™s Low-Carbon Electricity Supply Strategy. Environmental Science & Technology, 2016, 50, 1653-1662.	4.6	23
30	Economic Potential for Rainfed Agrivoltaics in Groundwater-Stressed Regions. Environmental Science and Technology Letters, 2020, 7, 525-531.	3.9	21
31	Hydropower and seasonal pumped hydropower storage in the Indus basin:pros and cons. Journal of Energy Storage, 2021, 41, 102916.	3.9	21
32	Quantifying the potential for reservoirs to secure future surface water yields in the worldâ€™s largest river basins. Environmental Research Letters, 2018, 13, 044026.	2.2	20
33	Long-term energy planning with uncertain environmental performance metrics. Applied Energy, 2015, 147, 402-412.	5.1	19
34	Decarbonization pathways and energy investment needs for developing Asia in line with â€˜well belowâ€™ 2Â°C. Climate Policy, 2020, 20, 234-245.	2.6	18
35	Toward low carbon energy systems: The convergence of wind power, demand response, and the electricity grid. , 2012, , .		14
36	Monitoring hydropower reliability in Malawi with satellite data and machine learning. Environmental Research Letters, 2020, 15, 014011.	2.2	14

#	Article	IF	Citations
37	Role of energy storage in energy and water security in Central Asia. Journal of Energy Storage, 2022, 50, 104587.	3.9	9
38	Guiding urban water management towards 1.5â€‰Â°C. Npj Clean Water, 2021, 4, .	3.1	7
39	Balancing smart irrigation and hydropower investments for sustainable water conservation in the Indus basin. Environmental Science and Policy, 2022, 135, 147-161.	2.4	4