Simon C Parkinson

List of Publications by Year
in descending order

39 papers	2,209 citations	279487 23 h-index	329751 37 g-index
41 all docs	41 docs citations	41 times ranked	2776 citing authors

#	Article	IF	Citations
1	Role of energy storage in energy and water security in Central Asia. Journal of Energy Storage, 2022, 50, 104587.	3.9	9
2	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
3	Transboundary cooperation a potential route to sustainable development in the Indus basin. Nature Sustainability, 2021, 4, 331-339.	11.5	47
4	Guiding urban water management towards 1.5â€‰Â°C. Npj Clean Water, 2021, 4, .	3.1	7
5	Hydropower and seasonal pumped hydropower storage in the Indus basin:pros and cons. Journal of Energy Storage, 2021, 41, 102916.	3.9	21
6	Monitoring hydropower reliability in Malawi with satellite data and machine learning. Environmental Research Letters, 2020, 15, 014011.	2.2	14
7	Economic Potential for Rainfed Agrivoltaics in Groundwater-Stressed Regions. Environmental Science and Technology Letters, 2020, 7, 525-531.	3.9	21
8	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
9	Global resource potential of seasonal pumped hydropower storage for energy and water storage. Nature Communications, 2020, 11, 947.	5.8	121
10	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
11	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
12	A high-resolution gridded dataset to assess electrification in sub-Saharan Africa. Scientific Data, 2019, 6, 110.	2.4	65
13	Co-designing Indus Water-Energy-Land Futures. One Earth, 2019, 1, 185-194.	3.6	54
14	Integrated Solutions for the Water-Energy-Land Nexus: Are Global Models Rising to the Challenge?. Water (Switzerland), 2019, 11, 2223.	1.2	24
15	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
16	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
17	Balancing clean water-climate change mitigation trade-offs. Environmental Research Letters, 2019, 14, 014009.	2.2	48
18	Connecting the sustainable development goals by their energy inter-linkages. Environmental Research Letters, 2018, 13, 033006.	2.2	263

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19	A multi-criteria model analysis framework for assessing integrated water-energy system transformation pathways. Applied Energy, 2018, 210, 477-486.	5.1	57
20	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
21	A Continentalâ€Scale Hydroeconomic Model for Integrating Waterâ€Energyâ€Land Nexus Solutions. Water Resources Research, 2018, 54, 7511-7533.	1.7	57
22	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
23	Global exposure and vulnerability to multi-sector development and climate change hotspots. Environmental Research Letters, 2018, 13, 055012.	2.2	162
24	Energy investment needs for fulfilling the Paris Agreement and achieving the Sustainable Development Goals. Nature Energy, 2018, 3, 589-599.	19.8	377
25	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
26	Energy sector water use implications of a 2 Â°C climate policy. Environmental Research Letters, 2016, 11, 034011.	2.2	72
27	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
28	Impacts of Groundwater Constraints on Saudi Arabiaâ€™s Low-Carbon Electricity Supply Strategy. Environmental Science & Technology, 2016, 50, 1653-1662.	4.6	23
29	Long-term energy planning with uncertain environmental performance metrics. Applied Energy, 2015, 147, 402-412.	5.1	19
30	Robust response to hydro-climatic change in electricity generation planning. Climatic Change, 2015, 130, 475-489.	1.7	32
31	Integrating ocean wave energy at large-scales: A study of the US Pacific Northwest. Renewable Energy, 2015, 76, 551-559.	4.3	35
32	Hierarchical market integration of responsive loads as spinning reserve. Applied Energy, 2013, 104, 229-238.	5.1	77
33	Wind integration in self-regulating electric load distributions. Energy Systems, 2012, 3, 341-377.	1.8	24
34	Online voltage security assessment considering comfort-constrained demand response control of distributed heat pump systems. Applied Energy, 2012, 96, 104-114.	5.1	108
35	A test bed for self-regulating distribution systems: Modeling integrated renewable energy and demand response in the GridLAB-D/MATLAB environment. , 2012, , .		23
36	Toward low carbon energy systems: The convergence of wind power, demand response, and the electricity grid. , 2012, , .		14

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37	Active power regulation of wind power systems through demand response. Science China Technological Sciences, 2012, 55, 1667-1676.	2.0	26
38	Energy efficient communication networks design for demand response in smart grid. , 2011, , .		32
39	Comfort-Constrained Distributed Heat Pump Management. Energy Procedia, 2011, 12, 849-855.	1.8	49