Yassine Charabi

List of Publications by Year
in descending order

92 papers	2,591 citations	331259 21 h-index	243296 44 g-index
96 all docs	96 docs citations	96 times ranked	3347 citing authors

#	Article	IF	Citations
1	Observations: Atmosphere and Surface. , 2014, , 159-254.		350
2	PV site suitability analysis using GIS-based spatial fuzzy multi-criteria evaluation. Renewable Energy, 2011, 36, 2554-2561.	4.3	293
3	Review of the use of Numerical Weather Prediction (NWP) Models for wind energy assessment. Renewable and Sustainable Energy Reviews, 2010, 14, 3192-3198.	8.2	213
4	Solar electricity prospects in Oman using GIS-based solar radiation maps. Renewable and Sustainable Energy Reviews, 2010, 14, 790-797.	8.2	159
5	Wind farm land suitability indexing using multi-criteria analysis. Renewable Energy, 2012, 44, 80-87.	4.3	151
6	Assessment of wind energy potential locations in Oman using data from existing weather stations. Renewable and Sustainable Energy Reviews, 2010, 14, 1428-1436.	8.2	84
7	Sludge-derived biochars: A review on the influence of synthesis conditions on pollutants removal efficiency from wastewaters. Renewable and Sustainable Energy Reviews, 2021, 144, 111068.	8.2	72
8	GIS-based assessment of combined CSP electric power and seawater desalination plant for Duqmâ€"Oman. Renewable and Sustainable Energy Reviews, 2010, 14, 821-827.	8.2	68
9	Assessment of the canopy urban heat island of a coastal arid tropical city: The case of Muscat, Oman. Atmospheric Research, 2011, 101, 215-227.	1.8	57
10	GIS assessment of large CSP plant in Duqm, Oman. Renewable and Sustainable Energy Reviews, 2010, 14, 835-841.	8.2	55
11	Fenton oxidation for soil remediation: A critical review of observations in historically contaminated soils. Journal of Hazardous Materials, 2022, 424, 127670.	6.5	50
12	Solar water heating initiative in Oman energy saving and carbon credits. Renewable and Sustainable Energy Reviews, 2011, 15, 1851-1856.	8.2	49
13	Integration of temperature and dust effects in siting large PV power plant in hot arid area. Renewable Energy, 2013, 57, 635-644.	4.3	49
14	Nested ensemble NWP approach for wind energy assessment. Renewable Energy, 2012, 37, 150-160.	4.3	48
15	Spatiotemporal Assessment of COVID-19 Spread over Oman Using GIS Techniques. Earth Systems and Environment, 2020, 4, 797-811.	3.0	46
16	Selection of the best solar photovoltaic (PV) for Oman. Solar Energy, 2019, 188, 1156-1168.	2.9	43
17	Assessment of large-scale wind energy potential in the emerging city of Duqm (Oman). Renewable and Sustainable Energy Reviews, 2015, 47, 438-447.	8.2	35
18	Evaluation of NWP performance for wind energy resource assessment in Oman. Renewable and Sustainable Energy Reviews, 2011, 15, 1545-1555.	8.2	29

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19	Recent advancements on biochars enrichment with ammonium and nitrates from wastewaters: A critical review on benefits for environment and agriculture. Journal of Environmental Management, 2022, 305, 114368.	3.8	29
20	Spatio-temporal assessment of dust risk maps for solar energy systems using proxy data. Renewable Energy, 2012, 44, 23-31.	4.3	25
21	Arabian summer monsoon variability: Teleconexion to ENSO and IOD. Atmospheric Research, 2009, 91, 105-117.	1.8	24
22	CO2 greenhouse emissions in Oman over the last forty-two years: Review. Renewable and Sustainable Energy Reviews, 2015, 52, 1702-1712.	8.2	24
23	Synoptic aspects of winter rainfall variability in Oman. Atmospheric Research, 2010, 95, 470-486.	1.8	23
24	Prediction of optimum sampling rates of air quality monitoring stations using hierarchical fuzzy logic control system. Atmospheric Pollution Research, 2019, 10, 1931-1943.	1.8	22
25	Health effects associated with wastewater treatment, reuse, and disposal. Water Environment Research, 2019, 91, 976-983.	1.3	22
26	Wind turbine performance analysis for energy cost minimization. Renewables: Wind, Water, and Solar, 2020, 7, .	2.5	22
27	Assessment of the coastal vulnerability to sea level rise: Sultanate of Oman. Environmental Earth Sciences, 2020, 79, 1.	1.3	21
28	GHG emissions from the transport sector in Oman: Trends and potential decarbonization pathways. Energy Strategy Reviews, 2020, 32, 100548.	3.3	21
29	Assessment of the impact of climate change on coastal aquifers in Oman. Arabian Journal of Geosciences, 2018, 11, 1.	0.6	20
30	Pesticides and herbicides. Water Environment Research, 2019, 91, 1342-1349.	1.3	19
31	Indian Ocean Tropical Cyclones and Climate Change. , 2010, , .		17
32	Assessment of the impact of the meteorological meso-scale circulation on air quality in arid subtropical region. Environmental Monitoring and Assessment, 2013, 185, 2329-2342.	1.3	16
33	Assessment of the consciousness levels on renewable energy resources in the Sultanate of Oman. Renewable and Sustainable Energy Reviews, 2014, 40, 1081-1089.	8.2	16
34	Production of solar radiation bankable datasets from high-resolution solar irradiance derived with dynamical downscaling Numerical Weather prediction model. Energy Reports, 2016, 2, 67-73.	2.5	16
35	Offshore Wind Energy Resource Assessment across the Territory of Oman: A Spatial-Temporal Data Analysis. Sustainability, 2021, 13, 2862.	1.6	16
36	Demographic and socioeconomic determinants of COVID-19 across Oman - A geospatial modelling approach. Geospatial Health, 2021, 16, .	0.3	16

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37	Correlation between climate data and maximum electricity demand in Qatar. , 2013, , .		15
38	Investigating the impact of monsoon season on the dispersion of pollutants emitted from vehicles: A case study of Salalah City, Sultanate of Oman. Transportation Research, Part D: Transport and Environment, 2018, 59, 108-120.	3.2	15
39	Offshore wind potential and wind atlas over the Oman Maritime Zone. Energy, Ecology and Environment, 2019, 4, 1-14.	1.9	15
40	Prediction of Metallic Conductor Voltage Owing to Electromagnetic Coupling Via a Hybrid ANFIS and Backtracking Search Algorithm. Energies, 2019, 12, 3651.	1.6	15
41	Wastewater treatment, reuse, and disposalâ€associated effects on environment and health. Water Environment Research, 2020, 92, 1595-1602.	1.3	15
42	Design and evaluation of a hybrid energy system for Masirah Island in Oman. International Journal of Sustainable Engineering, 2020, 13, 288-297.	1.9	15
43	Greenhouse gas (GHG) emissions in the Sultanate of Oman. , 2015, 5, 339-346.		12
44	Pesticides and Herbicides. Water Environment Research, 2018, 90, 1663-1678.	1.3	12
45	Ecological and human health risk assessment. Water Environment Research, 2020, 92, 1440-1446.	1.3	12
46	Hydrogeological and economical simulations: emergency water supply for Muscat. Water Policy, 2014, 16, 340-357.	0.7	11
47	Siting of large PV farms in Al-Batinah region of Oman. , 2010, , .		10
48	Integral assessment of air pollution dispersion regimes in the main industrialized and urban areas in Oman. Arabian Journal of Geosciences, 2011, 4, 625-634.	0.6	10
49	Probabilistic wind speed forecast for wind power prediction using pseudo ensemble approach. , 2012, , .		10
50	Flooding risk analysis: A case study of Muscat Governorate, Sultanate of Oman. Human and Ecological Risk Assessment (HERA), 2018, 24, 667-678.	1.7	10
51	Ecological and Human Health Risk Assessment. Water Environment Research, 2018, 90, 1777-1791.	1.3	10
52	Investigations on Biogas Recovery from Anaerobic Digestion of Raw Sludge and Its Mixture with Agri-Food Wastes: Application to the Largest Industrial Estate in Oman. Sustainability, 2021, 13, 3698.	1.6	10
53	Application of Geo-Processing Model for a Quantitative Assessment of Coastal Exposure and Sensitivity to Sea Level Rise in the Sultanate of Oman. American Journal of Climate Change, 2015, 04, 379-384.	0.5	10
54	Health Effects Associated with Wastewater Treatment, Reuse and Disposal. Water Environment Research, 2018, 90, 1759-1776.	1.3	9

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55	Pesticides and herbicides. Water Environment Research, 2020, 92, 1425-1432.	1.3	9
56	Synoptic aspects of the summer monsoon of southern Oman and its global teleconnections. Journal of Geophysical Research, 2009, 114, .	3.3	8
57	Wind resource assessment using numerical weather prediction models and multi-criteria decision making technique: case study (Masirah Island, Oman). International Journal of Renewable Energy Technology, 2013, 4, 17.	0.2	8
58	A study to investigate the key sources of odors in Al-Multaqa Village, Sultanate of Oman. Environmental Forensics, 2017, 18, 15-35.	1.3	8
59	Effects of Pollution on Freshwater Organisms. Water Environment Research, 2017, 89, 1676-1703.	1.3	8
60	Strategic pathways and regulatory choices for effective GHG reduction in hydrocarbon based economy: Case of Oman. Energy Reports, 2018, 4, 653-659.	2.5	8
61	Contribution of atmospheric processes to the degradation of air quality: case study (Sohar Industrial) Tj ETQq1 1 0.784314 rgBT /Overlo	0.6	7
62	Siting of PV power plants on inclined terrains. International Journal of Sustainable Energy, 2016, 35, 834-843.	1.3	7
63	Pathways for building urban resilience to climate change in Oman. Development in Practice, 2019, 29, 594-605.	0.6	7
64	Creating An Enabling Environment for Renewable Energy Application in the Sultanate of Oman. International Journal of Green Energy, 2015, 12, 1169-1177.	2.1	6
65	Formation of the Wahiba Sand Sea in the Sultanate of Oman: implications of change in wind energy. Arabian Journal of Geosciences, 2020, 13, 1.	0.6	6
66	The potential estimation and cost analysis of wind energy production in Oman. Environment, Development and Sustainability, 2022, 24, 5917-5937.	2.7	6
67	Applicability of VI in arid vegetation delineation using shadow-affected SPOT imagery. Environmental Monitoring and Assessment, 2015, 187, 454.	1.3	5
68	Potential changes in the number of wet days and its effect on future intense and annual precipitation in northern Oman. Hydrology Research, 2018, 49, 237-250.	1.1	5
69	Ecological and human health risk assessment. Water Environment Research, 2019, 91, 1072-1079.	1.3	5
70	Digging deeper into cutting methane emissions from the oil and gas industry in the era of volatile prices. Mitigation and Adaptation Strategies for Global Change, 2021, 26, 1.	1.0	5
71	Trajectory Calculation as Forecasting Support Tool for Dust Storms. Advances in Meteorology, 2014, 2014, 1-6.	0.6	4
72	Evaluation of ensemble NWP models for dynamical downscaling of air temperature over complex topography in a hot climate: A case study from the Sultanate of Oman. Atmosfera, 2015, 28, 261-269.	0.3	4

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73	Modelling the trends of vehicle-emitted pollutants in Salalah, Sultanate of Oman, over a 10-year period. Stochastic Environmental Research and Risk Assessment, 2018, 32, 1355-1373.	1.9	4
74	COVID-19: The Challenges and Opportunities for Water, Air, Agriculture and Energy Sectors. International Journal of Agriculture and Biology, 2021, 25, 1085-1095.	0.2	4
75	The optimal sizing and performance assessment of a hybrid renewable energy system for a mini-gird in an exclave territory. AIMS Energy, 2020, 8, 669-685.	1.1	4
76	Conversion of Industrial Sludge into Activated Biochar for Effective Cationic Dye Removal: Characterization and Adsorption Properties Assessment. Water (Switzerland), 2022, 14, 2206.	1.2	4
77	GIS-based estimation of roof-PV capacity &amp; energy production for the Seeb region in Oman. , 2010, , .		3
78	Textiles. Water Environment Research, 2017, 89, 1424-1440.	1.3	3
79	Estimating wind resource over Oman using meso-scale modeling. , 2010, , .		2
80	Optimal micro-siting of small wind turbine using numerical simulation. , 2013, , .		2
81	Bioenergy from Biofuel Residues and Wastes. Water Environment Research, 2017, 89, 1441-1460.	1.3	2
82	Is it the right time now to replace the diesel system with the natural gas system at Al Duqm in the Sultanate of Oman?. International Journal of Ambient Energy, 2020, , 1-9.	1.4	2
83	Geometrical approach for wind farm symmetrical layout design optimization. , 2015, , .		1
84	Smart Grid. , 2017, , 1465-1501.		1
85	Radioactive Wastes. Water Environment Research, 2017, 89, 1487-1502.	1.3	1
86	Impact of the ambient air quality due to the dispersion of PM10 from a hot-dip galvanizing plant located in the Sultanate of Oman. Air Quality, Atmosphere and Health, 2019, 12, 1279-1289.	1.5	1
87	Recent Observed Climate Change Over Oman. Springer Water, 2017, , 89-100.	0.2	1
88	Satellite-Based Water and Energy Balance Model for the Arid Region to Determine Evapotranspiration: Development and Application. Sustainability, 2021, 13, 13111.	1.6	1
89	Validation and Integration of Wheat Seed Emergence Prediction Model with GIS and Numerical Weather Prediction Models. Communications in Computer and Information Science, 2016, , 90-103.	0.4	0
90	Effects of Pollution on Freshwater Organisms. Water Environment Research, 2018, 90, 1723-1747.	1.3	0

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91	Spatiotemporal assessment of Prosopis juliflora invasion: linking invasion pattern to meteorological conditions. Tropical Ecology, 2021, 62, 197-208.	0.6	0
92	Integrating GIS and Numeric Weather Prediction Model with Wheat Simulation Model for Optimal Wheat Production Locations in Arid Regions. , 2015, , .		0