

Hosni Ghedira

List of Publications by Year in Descending Order

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Version: 2024-04-29

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78
papers

1,547
citations

24
h-index

38
g-index

101
ext. papers

1,795
ext. citations

5.3
avg, IF

5
L-index

#	Paper	IF	Citations
78	Calibration of ground surface albedo models. <i>Solar Energy</i> , 2022 , 237, 239-252	6.8	
77	Worldwide performance evaluation of ground surface reflectance models. <i>Solar Energy</i> , 2021 , 224, 106361-1078	6.8	2
76	Renewable energy management system for Saudi Arabia: Methodology and preliminary results. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 149, 111334	16.2	1
75	Simulation of aerosol deposition flux over the Arabian Peninsula with CHIMERE-2017: Sensitivity to different dry deposition schemes. <i>Atmospheric Research</i> , 2020 , 241, 104949	5.4	2
74	Studying coral reef patterns in UAE waters using panel data analysis and multinomial logit and probit models. <i>Ecological Indicators</i> , 2020 , 112, 106050	5.8	2
73	Coral Reefs of Abu Dhabi, United Arab Emirates: Analysis of Management Approaches in Light of International Best Practices and a Changing Climate. <i>Frontiers in Marine Science</i> , 2020 , 7,	4.5	3
72	Detection of algal blooms over optically complex waters of the Arabian Gulf and Sea of Oman using MODIS fluorescence data. <i>International Journal of Remote Sensing</i> , 2019 , 40, 3751-3771	3.1	5
71	Change detection using remote sensing in a reef environment of the UAE during the extreme event of El Niño 2015-2016. <i>International Journal of Remote Sensing</i> , 2018 , 39, 6358-6382	3.1	6
70	Prediction of the day-ahead clear-sky downwelling surface solar irradiances using the REST2 model and WRF-CHIMERE simulations over the Arabian Peninsula. <i>Solar Energy</i> , 2018 , 162, 36-44	6.8	9
69	A fast and simple model to estimate the contribution of the circumsolar irradiance to measured broadband beam irradiance under cloud-free conditions in desert environment. <i>Solar Energy</i> , 2018 , 163, 497-509	6.8	6
68	Simulation and analysis of synoptic scale dust storms over the Arabian Peninsula. <i>Atmospheric Research</i> , 2018 , 199, 62-81	5.4	41
67	Remotely sensed sea surface salinity in the hyper-saline Arabian Gulf: Application to landsat 8 OLI data. <i>Estuarine, Coastal and Shelf Science</i> , 2017 , 187, 168-177	2.9	17
66	Identifying natural dust source regions over the Middle-East and North-Africa: Estimation of dust emission potential. <i>Earth-Science Reviews</i> , 2017 , 165, 342-355	10.2	39
65	Sensitivity of the meteorological model WRF-ARW to planetary boundary layer schemes during fog conditions in a coastal arid region. <i>Atmospheric Research</i> , 2017 , 187, 106-127	5.4	57
64	Analysis of bloom conditions in fall 2013 in the Strait of Hormuz using satellite observations and model simulations. <i>Marine Pollution Bulletin</i> , 2017 , 115, 315-323	6.7	2
63	Improved atmospheric correction and chlorophyll-a remote sensing models for turbid waters in a dusty environment. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017 , 133, 46-60	11.8	14
62	Geospatial assessment of solar energy potential for utility scale parabolic trough collector power plant in Saudi Arabia 2017 ,		1

61	Improving direct normal irradiance retrieval in cloud-free, but high aerosol load conditions by using aerosol optical depth. <i>Meteorologische Zeitschrift</i> , 2017 , 26, 475-483	3.1	3
60	In situ spectral response of the Arabian Gulf and Sea of Oman coastal waters to bio-optical properties. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 175, 235-243	6.7	5
59	Satellites-Based Monitoring of Harmful Algal Blooms for Sustainable Desalination 2017 , 341-366		2
58	Assessment of solar energy potential over the United Arab Emirates using remote sensing and weather forecast data. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 55, 1210-1224	16.2	54
57	Optical and radiative properties of aerosols over Abu Dhabi in the United Arab Emirates. <i>Journal of Earth System Science</i> , 2016 , 125, 1579-1602	1.8	1
56	Modeling of circulation in the Arabian Gulf and the Sea of Oman: Skill assessment and seasonal thermohaline structure. <i>Journal of Geophysical Research: Oceans</i> , 2016 , 121, 1700-1720	3.3	30
55	Corals & benthic habitat mapping using DubaiSat-2: a spectral-spatial approach applied to Dalma Island, UAE (Arabian Gulf). <i>Remote Sensing Letters</i> , 2016 , 7, 781-789	2.3	3
54	Analysis of the spatio-temporal variability of seawater quality in the southeastern Arabian Gulf. <i>Marine Pollution Bulletin</i> , 2016 , 106, 127-38	6.7	18
53	Simulating aerosols over Arabian Peninsula with CHIMERE: Sensitivity to soil, surface parameters and anthropogenic emission inventories. <i>Atmospheric Environment</i> , 2016 , 128, 185-197	5.3	23
52	Improving the solar resource estimation in the United Arab Emirates using aerosol and irradiance measurements 2016 ,		2
51	A database of multi-year (2004-2010) quality-assured surface solar hourly irradiation measurements for the Egyptian territory. <i>Earth System Science Data</i> , 2016 , 8, 105-113	10.5	16
50	MODIS-Based Mapping of Secchi Disk Depth Using a Qualitative Algorithm in the Shallow Arabian Gulf. <i>Remote Sensing</i> , 2016 , 8, 423	5	13
49	Parabolic trough collector power plant performance simulation for an interactive solar energy Atlas of Saudi Arabia 2016 ,		6
48	Satellite-Based Tracking of Oil Pollution in the Arabian Gulf and the Sea of Oman. <i>Canadian Journal of Remote Sensing</i> , 2015 , 41, 113-125	1.8	28
47	Multi-sensor based approach for detection of oil pollution in the Arabian Gulf and the Sea of Oman 2015 ,		1
46	Dust emission parameterization scheme over the MENA region: Sensitivity analysis to soil moisture and soil texture. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 10,915-10,938	4.4	18
45	Urban climate modifications in hot desert cities: The role of land cover, local climate, and seasonality. <i>Geophysical Research Letters</i> , 2015 , 42, 9980-9989	4.9	45
44	Can AERONET data be used to accurately model the monochromatic beam and circumsolar irradiances under cloud-free conditions in desert environment?. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 5099-5112	4	7

43	Validation of the Surface Downwelling Solar Irradiance Estimates of the HelioClim-3 Database in Egypt. <i>Remote Sensing</i> , 2015 , 7, 9269-9291	5	35
42	Characterization of harmful algal blooms (HABs) in the Arabian Gulf and the Sea of Oman using MERIS fluorescence data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015 , 101, 125-136	11.8	41
41	Validating surface downwelling solar irradiances estimated by the McClear model under cloud-free skies in the United Arab Emirates. <i>Solar Energy</i> , 2015 , 114, 17-31	6.8	25
40	Probability distributions of wind speed in the UAE. <i>Energy Conversion and Management</i> , 2015 , 93, 414-434	10.6	133
39	Monitoring red tide with satellite imagery and numerical models: a case study in the Arabian Gulf. <i>Marine Pollution Bulletin</i> , 2014 , 79, 305-13	6.7	61
38	Toward a Near Real-Time Product of Air Temperature Maps from Satellite Data and In Situ Measurements in Arid Environments. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014 , 7, 3093-3104	4.7	16
37	An overview of historical harmful algae blooms outbreaks in the Arabian Seas. <i>Marine Pollution Bulletin</i> , 2014 , 86, 314-324	6.7	65
36	Discerning Tempo-spatial Variability in Measured Short-term Irradiance under Arid Environment. <i>Energy Procedia</i> , 2014 , 57, 3203-3214	2.3	
35	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014 , 7, 3668-3680	4.7	20
34	Global Tilt Irradiation Map of the United Arab Emirates. <i>Energy Procedia</i> , 2014 , 57, 1199-1205	2.3	2
33	A review of Renewable Energy and Solar Industry Growth in the GCC Region. <i>Energy Procedia</i> , 2014 , 57, 3191-3202	2.3	39
32	Estimation of the Circumsolar Ratio in a Turbid Atmosphere. <i>Energy Procedia</i> , 2014 , 57, 1169-1178	2.3	6
31	Intercomparison of Solar Maps Derived from an Ensemble-ANN Model and a Semi-empirical Model for a Desert Environment. <i>Energy Procedia</i> , 2014 , 49, 2313-2320	2.3	
30	Spatiotemporal assessment of dust loading over the United Arab Emirates. <i>International Journal of Climatology</i> , 2014 , 34, 3321-3335	3.5	25
29	Validation of Thermal Models for Photovoltaic Cells under Hot Desert Climates. <i>Energy Procedia</i> , 2014 , 57, 136-143	2.3	12
28	Exploring the potential of optical remote sensing for oil spill detection in shallow coastal waters--a case study in the Arabian Gulf. <i>Optics Express</i> , 2014 , 22, 13755-72	3.3	64
27	Evolution of the rainfall regime in the United Arab Emirates. <i>Journal of Hydrology</i> , 2014 , 514, 258-270	6	84
26	Assimilation of Earth Observation Variables and In Situ Measurements in a Surface Energy Balance Model: A Case Study of a Desert City Area. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014 , 11, 366-370	4.1	2

25	Artificial neural network based model for retrieval of the direct normal, diffuse horizontal and global horizontal irradiances using SEVIRI images. <i>Solar Energy</i> , 2013 , 89, 1-16	6.8	51
24	Temperature-land cover interactions: The inversion of urban heat island phenomenon in desert city areas. <i>Remote Sensing of Environment</i> , 2013 , 130, 136-152	13.2	145
23	The global solar and wind atlas 2013 ,		4
22	The effect of soil moisture and wind speed on aerosol optical thickness retrieval in a desert environment using SEVIRI thermal channels. <i>International Journal of Remote Sensing</i> , 2013 , 34, 5054-5073 ¹		5
21	Assessment and recalibration of the Heliosat-2 method in global horizontal irradiance modeling over the desert environment of the UAE. <i>Solar Energy</i> , 2012 , 86, 1816-1825	6.8	33
20	Temporal-spatial analysis of chlorophyll concentration associated with dust and wind characteristics in the Arabian Gulf 2012 ,		2
19	Evaluation of the effect of soil moisture and wind speed on dust emission using aeronet, seviri, soil moisture and wind speed data 2012 ,		1
18	Dust detection over bright surfaces using high-resolution visible SEVIRI images 2012 ,		2
17	Land cover and Land Surface Temperature interactions in desert areas: A case study of Abu Dhabi (UAE) 2012 ,		2
16	Sea-ice monitoring over the Caspian Sea using geostationary satellite data. <i>International Journal of Remote Sensing</i> , 2011 , 32, 1575-1593	3.1	12
15	Using remote sensing satellites for water quality monitoring in the UAE 2011 ,		1
14	A multi-temporal analysis of AMSR-E data for flood and discharge monitoring during the 2008 flood in Iowa. <i>Hydrological Processes</i> , 2011 , 25, 2623-2634	3.3	34
13	Developing a satellite-based tool to monitor dust an sand storms in the UAE 2010 ,		2
12	Effect of Land Cover Heterogeneity on Soil Moisture Retrieval Using Active Microwave Remote Sensing Data. <i>Remote Sensing</i> , 2009 , 1, 80-91	5	28
11	Non-parametric Methods for Soil Moisture Retrieval from Satellite Remote Sensing Data. <i>Remote Sensing</i> , 2009 , 1, 3-21	5	28
10	Developing a new automated tool for detecting and monitoring dust and sand storms using MODIS and meteosat SEVIRI-MSG data 2009 ,		1
9	DubaiSat-1: Mission overview, development status and future applications 2009 ,		3
8	Fog forecasting, detection and monitoring in the UAE using SEVIRI-MSG data 2009 ,		1

7	Flood and discharge monitoring during the 2008 Iowa flood using AMSR-E data 2009 ,		2
6	Application of Satellite Microwave Images in Estimating Snow Water Equivalent ¹ . <i>Journal of the American Water Resources Association</i> , 2008 , 44, 1347-1362	2.1	11
5	Comparison of ice-affected streamflow estimates computed using artificial neural networks and multiple regression techniques. <i>Journal of Hydrology</i> , 2008 , 349, 383-396	6	49
4	Robust neural network system design for detecting and estimating snowfall from the Advanced Microwave Sounding Unit. <i>Journal of Applied Remote Sensing</i> , 2008 , 2, 023524	1.4	1
3	An automated approach for sea ice mapping and ice concentration determination for the future GOES-R Advanced Baseline Imager (ABI) 2008 ,		1
2	Soil Moisture Retrieval from Radarsat Data: A Neuro-Fuzzy Approach 2006 ,		4
1	Détection et classification de tourbières ombrotrophes du Québec à partir d'images RADARSAT-1. <i>Canadian Journal of Remote Sensing</i> , 2003 , 29, 88-98	1.8	11