Hosni Ghedira

List of Publications by Citations

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	Temperature-land cover interactions: The inversion of urban heat island phenomenon in desert city areas. *Remote Sensing of Environment*, **2013**, 130, 136-152	13.2	145
77	Probability distributions of wind speed in the UAE. *Energy Conversion and Management*, **2015**, 93, 414-434	10.6	133
76	Evolution of the rainfall regime in the United Arab Emirates. *Journal of Hydrology*, **2014**, 514, 258-270	6	84
75	An overview of historical harmful algae blooms outbreaks in the Arabian Seas. *Marine Pollution Bulletin*, **2014**, 86, 314-324	6.7	65
74	Exploring the potential of optical remote sensing for oil spill detection in shallow coastal waters--a case study in the Arabian Gulf. *Optics Express*, **2014**, 22, 13755-72	3.3	64
73	Monitoring red tide with satellite imagery and numerical models: a case study in the Arabian Gulf. *Marine Pollution Bulletin*, **2014**, 79, 305-13	6.7	61
72	Sensitivity of the meteorological model WRF-ARW to planetary boundary layer schemes during fog conditions in a coastal arid region. *Atmospheric Research*, **2017**, 187, 106-127	5.4	57
71	Assessment of solar energy potential over the United Arab Emirates using remote sensing and weather forecast data. *Renewable and Sustainable Energy Reviews*, **2016**, 55, 1210-1224	16.2	54
70	Artificial neural network based model for retrieval of the direct normal, diffuse horizontal and global horizontal irradiances using SEVIRI images. *Solar Energy*, **2013**, 89, 1-16	6.8	51
69	Comparison of ice-affected streamflow estimates computed using artificial neural networks and multiple regression techniques. *Journal of Hydrology*, **2008**, 349, 383-396	6	49
68	Urban climate modifications in hot desert cities: The role of land cover, local climate, and seasonality. *Geophysical Research Letters*, **2015**, 42, 9980-9989	4.9	45
67	Simulation and analysis of synoptic scale dust storms over the Arabian Peninsula. *Atmospheric Research*, **2018**, 199, 62-81	5.4	41
66	Characterization of harmful algal blooms (HABs) in the Arabian Gulf and the Sea of Oman using MERIS fluorescence data. *ISPRS Journal of Photogrammetry and Remote Sensing*, **2015**, 101, 125-136	11.8	41
65	Identifying natural dust source regions over the Middle-East and North-Africa: Estimation of dust emission potential. *Earth-Science Reviews*, **2017**, 165, 342-355	10.2	39
64	A review of Renewable Energy and Solar Industry Growth in the GCC Region. *Energy Procedia*, **2014**, 57, 3191-3202	2.3	39
63	Validation of the Surface Downwelling Solar Irradiance Estimates of the HelioClim-3 Database in Egypt. *Remote Sensing*, **2015**, 7, 9269-9291	5	35
62	A multi-temporal analysis of AMSR-E data for flood and discharge monitoring during the 2008 flood in Iowa. *Hydrological Processes*, **2011**, 25, 2623-2634	3.3	34

61	Assessment and recalibration of the Heliosat-2 method in global horizontal irradiance modeling over the desert environment of the UAE. *Solar Energy*, **2012**, 86, 1816-1825	6.8	33
60	Modeling of circulation in the Arabian Gulf and the Sea of Oman: Skill assessment and seasonal thermohaline structure. *Journal of Geophysical Research: Oceans*, **2016**, 121, 1700-1720	3.3	30
59	Satellite-Based Tracking of Oil Pollution in the Arabian Gulf and the Sea of Oman. *Canadian Journal of Remote Sensing*, **2015**, 41, 113-125	1.8	28
58	Effect of Land Cover Heterogeneity on Soil Moisture Retrieval Using Active Microwave Remote Sensing Data. *Remote Sensing*, **2009**, 1, 80-91	5	28
57	Non-parametric Methods for Soil Moisture Retrieval from Satellite Remote Sensing Data. *Remote Sensing*, **2009**, 1, 3-21	5	28
56	Validating surface downwelling solar irradiances estimated by the McClear model under cloud-free skies in the United Arab Emirates. *Solar Energy*, **2015**, 114, 17-31	6.8	25
55	Spatiotemporal assessment of dust loading over the United Arab Emirates. *International Journal of Climatology*, **2014**, 34, 3321-3335	3.5	25
54	Simulating aerosols over Arabian Peninsula with CHIMERE: Sensitivity to soil, surface parameters and anthropogenic emission inventories. *Atmospheric Environment*, **2016**, 128, 185-197	5.3	23
53	. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2014**, 7, 3668-3680	4.7	20
52	Analysis of the spatio-temporal variability of seawater quality in the southeastern Arabian Gulf. *Marine Pollution Bulletin*, **2016**, 106, 127-38	6.7	18
51	Dust emission parameterization scheme over the MENA region: Sensitivity analysis to soil moisture and soil texture. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 10,915-10,938	4.4	18
50	Remotely sensed sea surface salinity in the hyper-saline Arabian Gulf: Application to landsat 8 OLI data. *Estuarine, Coastal and Shelf Science*, **2017**, 187, 168-177	2.9	17
49	Toward a Near Real-Time Product of Air Temperature Maps from Satellite Data and In Situ Measurements in Arid Environments. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2014**, 7, 3093-3104	4.7	16
48	A database of multi-year (2004⬚010) quality-assured surface solar hourly irradiation measurements for the Egyptian territory. *Earth System Science Data*, **2016**, 8, 105-113	10.5	16
47	Improved atmospheric correction and chlorophyll-a remote sensing models for turbid waters in a dusty environment. *ISPRS Journal of Photogrammetry and Remote Sensing*, **2017**, 133, 46-60	11.8	14
46	MODIS-Based Mapping of Secchi Disk Depth Using a Qualitative Algorithm in the Shallow Arabian Gulf. *Remote Sensing*, **2016**, 8, 423	5	13
45	Validation of Thermal Models for Photovoltaic Cells under Hot Desert Climates. *Energy Procedia*, **2014**, 57, 136-143	2.3	12
44	Sea-ice monitoring over the Caspian Sea using geostationary satellite data. *International Journal of Remote Sensing*, **2011**, 32, 1575-1593	3.1	12

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43	Application of Satellite Microwave Images in Estimating Snow Water Equivalent1. *Journal of the American Water Resources Association*, **2008**, 44, 1347-1362	2.1	11
42	Détection et classification de tourbières ombrotrophes du Québec à partir d'images RADARSAT-1. *Canadian Journal of Remote Sensing*, **2003**, 29, 88-98	1.8	11
41	Prediction of the day-ahead clear-sky downwelling surface solar irradiances using the REST2 model and WRF-CHIMERE simulations over the Arabian Peninsula. *Solar Energy*, **2018**, 162, 36-44	6.8	9
40	Can AERONET data be used to accurately model the monochromatic beam and circumsolar irradiances under cloud-free conditions in desert environment?. *Atmospheric Measurement Techniques*, **2015**, 8, 5099-5112	4	7
39	Change detection using remote sensing in a reef environment of the UAE during the extreme event of El Niño 2015–2016. *International Journal of Remote Sensing*, **2018**, 39, 6358-6382	3.1	6
38	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. *Solar Energy*, **2018**, 163, 497-509	6.8	6
37	Estimation of the Circumsolar Ratio in a Turbid Atmosphere. *Energy Procedia*, **2014**, 57, 1169-1178	2.3	6
36	Parabolic trough collector power plant performance simulation for an interactive solar energy Atlas of Saudi Arabia **2016**,		6
35	In situ spectral response of the Arabian Gulf and Sea of Oman coastal waters to bio-optical properties. *Journal of Photochemistry and Photobiology B: Biology*, **2017**, 175, 235-243	6.7	5
34	The effect of soil moisture and wind speed on aerosol optical thickness retrieval in a desert environment using SEVIRI thermal channels. *International Journal of Remote Sensing*, **2013**, 34, 5054-5071	3.1	5
33	Detection of algal blooms over optically complex waters of the Arabian Gulf and Sea of Oman using MODIS fluorescence data. *International Journal of Remote Sensing*, **2019**, 40, 3751-3771	3.1	5
32	The global solar and wind atlas **2013**,		4
31	Soil Moisture Retrieval from Radarsat Data: A Neuro-Fuzzy Approach **2006**,		4
30	Improving direct normal irradiance retrieval in cloud-free, but high aerosol load conditions by using aerosol optical depth. *Meteorologische Zeitschrift*, **2017**, 26, 475-483	3.1	3
29	Corals & benthic habitat mapping using DubaiSat-2: a spectral-spatial approach applied to Dalma Island, UAE (Arabian Gulf). *Remote Sensing Letters*, **2016**, 7, 781-789	2.3	3
28	DubaiSat-1: Mission overview, development status and future applications **2009**,		3
27	Coral Reefs of Abu Dhabi, United Arab Emirates: Analysis of Management Approaches in Light of International Best Practices and a Changing Climate. *Frontiers in Marine Science*, **2020**, 7,	4.5	3
26	Analysis of bloom conditions in fall 2013 in the Strait of Hormuz using satellite observations and model simulations. *Marine Pollution Bulletin*, **2017**, 115, 315-323	6.7	2

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25	Simulation of aerosol deposition flux over the Arabian Peninsula with CHIMERE-2017: Sensitivity to different dry deposition schemes. *Atmospheric Research*, **2020**, 241, 104949	5.4	2
24	Studying coral reef patterns in UAE waters using panel data analysis and multinomial logit and probit models. *Ecological Indicators*, **2020**, 112, 106050	5.8	2
23	Satellites-Based Monitoring of Harmful Algal Blooms for Sustainable Desalination **2017**, 341-366		2
22	Global Tilt Irradiation Map of the United Arab Emirates. *Energy Procedia*, **2014**, 57, 1199-1205	2.3	2
21	Assimilation of Earth Observation Variables and In Situ Measurements in a Surface Energy Balance Model: A Case Study of a Desert City Area. *IEEE Geoscience and Remote Sensing Letters*, **2014**, 11, 366-370	4.1	2
20	Temporal-spatial analysis of chlorophyll concentration associated with dust and wind characteristics in the Arabian Gulf **2012**,		2
19	Developing a satellite-based tool to monitor dust an sand storms in the UAE **2010**,		2
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	Flood and discharge monitoring during the 2008 Iowa flood using AMSR-E data **2009**,		2
15	Improving the solar resource estimation in the United Arab Emirates using aerosol and irradiance measurements **2016**,		2
14	Worldwide performance evaluation of ground surface reflectance models. *Solar Energy*, **2021**, 224, 106361978		2
13	Geospatial assessment of solar energy potential for utility scale parabolic trough collector power plant in Saudi Arabia **2017**,		1
12	Multi-sensor based approach for detection of oil pollution in the Arabian Gulf and the Sea of Oman **2015**,		1
11	Optical and radiative properties of aerosols over Abu Dhabi in the United Arab Emirates. *Journal of Earth System Science*, **2016**, 125, 1579-1602	1.8	1
10	Using remote sensing satellites for water quality monitoring in the UAE **2011**,		1
9	Developing a new automated tool for detecting and monitoring dust and sand storms using MODIS and meteosat SEVIRI-MSG data **2009**,		1
8	Evaluation of the effect of soil moisture and wind speed on dust emission using aeronet, seviri, soil moisture and wind speed data **2012**,		1

7	Fog forecasting, detection and monitoring in the UAE using SEVIRI-MSG data **2009**,		1
6	Robust neural network system design for detecting and estimating snowfall from the Advanced Microwave Sounding Unit. *Journal of Applied Remote Sensing*, **2008**, 2, 023524	1.4	1
5	An automated approach for sea ice mapping and ice concentration determination for the future GOES-R Advanced Baseline Imager (ABI) **2008**,		1
4	Renewable energy management system for Saudi Arabia: Methodology and preliminary results. *Renewable and Sustainable Energy Reviews*, **2021**, 149, 111334	16.2	1
3	Discerning Tempo-spatial Variability in Measured Short-term Irradiance under Arid Environment. *Energy Procedia*, **2014**, 57, 3203-3214	2.3	
2	Intercomparison of Solar Maps Derived from an Ensemble-ANN Model and a Semi-empirical Model for a Desert Environment. *Energy Procedia*, **2014**, 49, 2313-2320	2.3	
1	Calibration of ground surface albedo models. *Solar Energy*, **2022**, 237, 239-252	6.8	