Quazi K Hassan

List of Publications by Year
in descending order

70 papers	2,225 citations	218592 26 h-index	243529 44 g-index
71 all docs	71 docs citations	71 times ranked	2392 citing authors

#	Article	IF	Citations
1	Application of Remote Sensors in Mapping Rice Area and Forecasting Its Production: A Review. Sensors, 2015, 15, 769-791.	2.1	200
2	Spatio-temporal Patterns of Land Use/Land Cover Change in the Heterogeneous Coastal Region of Bangladesh between 1990 and 2017. Remote Sensing, 2019, 11, 790.	1.8	181
3	Surface urban heat island intensity in five major cities of Bangladesh: Patterns, drivers and trends. Sustainable Cities and Society, 2021, 71, 102926.	5.1	111
4	Remote Sensing-Based Quantification of the Relationships between Land Use Land Cover Changes and Surface Temperature over the Lower Himalayan Region. Sustainability, 2019, 11, 5492.	1.6	94
5	Operational perspective of remote sensing-based forest fire danger forecasting systems. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 104, 224-236.	4.9	80
6	Investigative Spatial Distribution and Modelling of Existing and Future Urban Land Changes and Its Impact on Urbanization and Economy. Remote Sensing, 2019, 11, 105.	1.8	74
7	A Survey on Change Detection and Time Series Analysis with Applications. Applied Sciences (Switzerland), 2021, 11, 6141.	1.3	65
8	A Wetness Index Using Terrain-Corrected Surface Temperature and Normalized Difference Vegetation Index Derived from Standard MODIS Products: An Evaluation of Its Use in a Humid Forest-Dominated Region of Eastern Canada. Sensors, 2007, 7, 2028-2048.	2.1	63
9	Projection of meteorological droughts in Nigeria during growing seasons under climate change scenarios. Scientific Reports, 2020, 10, 10107.	1.6	63
10	Evaluating severity–area–frequency (SAF) of seasonal droughts in Bangladesh under climate change scenarios. Stochastic Environmental Research and Risk Assessment, 2020, 34, 447-464.	1.9	58
11	Spatial mapping of growing degree days: an application of MODIS-based surface temperatures and enhanced vegetation index. Journal of Applied Remote Sensing, 2007, 1, 013511.	0.6	55
12	Remote sensing of agricultural drought monitoring: A state of art review. AIMS Environmental Science, 2016, 3, 604-630.	0.7	53
13	Simulating Current and Future River-Flows in the Karakoram and Himalayan Regions of Pakistan Using Snowmelt-Runoff Model and RCP Scenarios. Water (Switzerland), 2019, 11, 761.	1.2	48
14	Spatiotemporal image-fusion model for enhancing the temporal resolution of Landsat-8 surface reflectance images using MODIS images. Journal of Applied Remote Sensing, 2015, 9, 096095.	0.6	46
15	Application of the Least-Squares Wavelet software in hydrology: Athabasca River Basin. Journal of Hydrology: Regional Studies, 2021, 36, 100847.	1.0	46
16	Remote Sensing-Based Assessment of Fire Danger Conditions Over Boreal Forest. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2011, 4, 992-999.	2.3	44
17	A remote sensing-based agricultural drought indicator and its implementation over a semi-arid region, Jordan. Journal of Arid Land, 2017, 9, 319-330.	0.9	43
18	Remote Sensing-Based Quantification of the Impact of Flash Flooding on the Rice Production: A Case Study over Northeastern Bangladesh. Sensors, 2017, 17, 2347.	2.1	43

#	ARTICLE	IF	CITATIONS
19	Fusion of MODIS and Landsat-8 Surface Temperature Images: A New Approach. PLoS ONE, 2015, 10, e0117755.	1.1	36
20	Development of a Remote Sensing-Based "Boro" Rice Mapping System. Remote Sensing, 2014, 6, 1938-1953.	1.8	35
21	Development of a New Daily-Scale Forest Fire Danger Forecasting System Using Remote Sensing Data. Remote Sensing, 2015, 7, 2431-2448.	1.8	35
22	An Advanced Forest Fire Danger Forecasting System: Integration of Remote Sensing and Historical Sources of Ignition Data. Remote Sensing, 2018, 10, 923.	1.8	35
23	Riverine Water Quality Response to Precipitation and Its Change. Environments - MDPI, 2018, 5, 8.	1.5	34
24	Use of remote sensing-derived variables in developing a forest fire danger forecasting system. Natural Hazards, 2013, 67, 321-334.	1.6	30
25	Pan-Sharpening of Landsat-8 Images and Its Application in Calculating Vegetation Greenness and Canopy Water Contents. ISPRS International Journal of Geo-Information, 2017, 6, 168.	1.4	30
26	Predicting hydrologic responses to climate changes in highly glacierized and mountainous region Upper Indus Basin. Royal Society Open Science, 2020, 7, 191957.	1.1	30
27	Urban green and blue space changes: A spatiotemporal evaluation of impacts on ecosystem service value in Bangladesh. Ecological Informatics, 2022, 70, 101730.	2.3	30
28	Pixel-Based Geometric Assessment of Channel Networks/Orders Derived from Global Spaceborne Digital Elevation Models. Remote Sensing, 2019, 11, 235.	1.8	26
29	Development of Land-Use/Land-Cover Maps Using Landsat-8 and MODIS Data, and Their Integration for Hydro-Ecological Applications. Sensors, 2019, 19, 4891.	2.1	26
30	Remote Sensing of Wildland Fire-Induced Risk Assessment at the Community Level. Sensors, 2018, 18, 1570.	2.1	24
31	A New Clustering Method to Generate Training Samples for Supervised Monitoring of Long-Term Water Surface Dynamics Using Landsat Data through Google Earth Engine. Sustainability, 2022, 14, 8046.	1.6	24
32	Remote Sensing of Local Warming Trend in Alberta, Canada during 2001–2020, and Its Relationship with Large-Scale Atmospheric Circulations. Remote Sensing, 2021, 13, 3441.	1.8	23
33	Evaluating Potential of MODIS-based Indices in Determining "Snow Gone" Stage over Forest-dominant Regions. Remote Sensing, 2010, 2, 1348-1363.	1.8	22
34	Applicability of Remote Sensing-Based Vegetation Water Content in Modeling Lightning-Caused Forest Fire Occurrences. ISPRS International Journal of Geo-Information, 2019, 8, 143.	1.4	22
35	Performance Assessment of Sub-Daily and Daily Precipitation Estimates Derived from GPM and GSMaP Products over an Arid Environment. Remote Sensing, 2019, 11, 2840.	1.8	22
36	Use of Remote Sensing in Comprehending the Influence of Urban Landscape's Composition and Configuration on Land Surface Temperature at Neighbourhood Scale. Remote Sensing, 2020, 12, 2508.	1.8	22

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37	Development of a remote sensing-based rice yield forecasting model. Spanish Journal of Agricultural Research, 2016, 14, e0907.	0.3	22
38	Use of remote sensing data in comprehending an extremely unusual flooding event over southwest Bangladesh. Natural Hazards, 2017, 88, 1805-1823.	1.6	21
39	Predicting River Flow Using an AI-Based Sequential Adaptive Neuro-Fuzzy Inference System. Water (Switzerland), 2020, 12, 1622.	1.2	21
40	Estimation of daytime net ecosystem CO_2 exchange over balsam fir forests in eastern Canada: combining averaged tower-based flux measurements with remotely sensed MODIS data. Canadian Journal of Remote Sensing, 2006, 32, 405-416.	1.1	20
41	Potential Species Distribution of Balsam Fir Based on the Integration of Biophysical Variables Derived with Remote Sensing and Process-Based Methods. Remote Sensing, 2009, 1, 393-407.	1.8	19
42	Projected impacts of climate change on species distribution in the Acadian Forest region of eastern Nova Scotia. Forestry Chronicle, 2008, 84, 553-557.	0.5	18
43	Application of Landsat-7 ETM+ and MODIS products in mapping seasonal accumulation of growing degree days at an enhanced resolution. Journal of Applied Remote Sensing, 2007, 1, 013539.	0.6	17
44	Development of Flow Forecasting Models in the Bow River at Calgary, Alberta, Canada. Water (Switzerland), 2015, 7, 99-115.	1.2	17
45	Spatial Enhancement of MODIS-based Images of Leaf Area Index: Application to the Boreal Forest Region of Northern Alberta, Canada. Remote Sensing, 2010, 2, 278-289.	1.8	16
46	A Methodology for Clustering Lakes in Alberta on the basis of Water Quality Parameters. Clean - Soil, Air, Water, 2011, 39, 916-924.	0.7	16
47	Wildfire Risk Forecasting Using Weights of Evidence and Statistical Index Models. Sustainability, 2022, 14, 3881.	1.6	16
48	Urban Warming of the Two Most Populated Cities in the Canadian Province of Alberta, and Its Influencing Factors. Sensors, 2022, 22, 2894.	2.1	16
49	Vegetation Control in the Long-Term Self-Stabilization of the Liangzhou Oasis of the Upper Shiyang River Watershed of West-Central Gansu, Northwest China. Earth Interactions, 2009, 13, 1-22.	0.7	14
50	Processing of Near Real Time Land Surface Temperature and Its Application in Forecasting Forest Fire Danger Conditions. Sensors, 2020, 20, 984.	2.1	14
51	Quantification of Local Warming Trend: A Remote Sensing-Based Approach. PLoS ONE, 2017, 12, e0169423.	1.1	11
52	Modelling river flow in cold and ungauged regions: a review of the purposes, methods, and challenges. Environmental Reviews, 2022, 30, 159-173.	2.1	11
53	Use of Bathymetric and LiDAR Data in Generating Digital Elevation Model over the Lower Athabasca River Watershed in Alberta, Canada. Water (Switzerland), 2017, 9, 19.	1.2	10
54	Remote sensing-based determination of understory grass greening stage over boreal forest. Journal of Applied Remote Sensing, 2013, 7, 073578.	0.6	8

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55	Development of Remote Sensing Based Models for Surface Water Quality. Clean - Soil, Air, Water, 2014, 42, 1044-1051.	0.7	8
56	Short-Term River Flow Forecasting Framework and Its Application in Cold Climatic Regions. Water (Switzerland), 2020, 12, 3049.	1.2	8
57	Solar Energy Modelling over a Residential Community in the City of Calgary, Alberta, Canada. International Journal of Photoenergy, 2011, 2011, 1-8.	1.4	6
58	Clusterization of Surface Water Quality and Its Relation to Climate and Land Use/Cover. Journal of Environmental Protection, 2013, 04, 333-343.	0.3	6
59	Examining Post-Fire Perceptions of Selected Mitigation Strategies after the 2016 Horse River Wildland Fire in Alberta, Canada. Applied Sciences (Switzerland), 2021, 11, 10155.	1.3	6
60	An Analysis of Habitat Suitability and Charcoal-Yielding Characteristics of Five Exotic Tree Species Intended for Bioenergy Production in Jamaica. Journal of Biobased Materials and Bioenergy, 2009, 3, 46-56.	0.1	4
61	Quantifying relations and similarities of the meteorological parameters among the weather stations in the Alberta Oil Sands region. PLoS ONE, 2022, 17, e0261610.	1.1	4
62	Suitability Assessment of Weather Networks for Wind Data Measurements in the Athabasca Oil Sands Area. Climate, 2022, 10, 10.	1.2	4
63	Analysis of wind power potentials at selected airport locations in Canada. International Journal of Industrial and Systems Engineering, 2011, 9, 150.	0.1	3
64	Application of remote sensing to quantify local warming trends: A review. , 2016, , .		3
65	Lessons Learned from the Development of Open Educational Resources at Post-Secondary Level in the Field of Environmental Modelling: An Exploratory Study. Education Sciences, 2019, 9, 103.	1.4	3
66	Water quality response to river flow regime at three major rivers in Alberta. Water Quality Research Journal of Canada, 2020, 55, 79-92.	1.2	3
67	Using Satellite-Borne Remote Sensing Data in Generating Local Warming Maps with Enhanced Resolution. ISPRS International Journal of Geo-Information, 2018, 7, 398.	1.4	2
68	CMIP6-D&A: An R-based software with GUI for processing climate data available in network common data format. SoftwareX, 2022, 18, 101044.	1.2	2
69	Remote Sensing-Based Determination of Conifer Needle Flushing Phenology over Boreal-Dominant Regions. Society of Earth Scientists Series, 2014, , 3-16.	0.2	1
70	Development of a New Wetness Index Based on RADARSAT-1 ScanSAR Data. Springer Remote Sensing/photogrammetry, 2015, , 301-314.	0.4	1