Atiqur Rahman

List of Publications by Year
in descending order

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119 papers	6,795 citations	66343 42 h-index	64796 79 g-index
125 all docs	125 docs citations	125 times ranked	7240 citing authors

#	Article	IF	Citations
1	Land-Use Land-Cover Classification by Machine Learning Classifiers for Satellite Observationsâ€"A Review. Remote Sensing, 2020, 12, 1135.	4.0	521
2	United States Food and Drug Administration Drug Approval Summary. Clinical Cancer Research, 2004, 10, 1212-1218.	7.0	474
3	A GIS based DRASTIC model for assessing groundwater vulnerability in shallow aquifer in Aligarh, India. Applied Geography, 2008, 28, 32-53.	3.7	389
4	Approval Summary: Azacitidine for Treatment of Myelodysplastic Syndrome Subtypes. Clinical Cancer Research, 2005, 11, 3604-3608.	7.0	383
5	New Era in Drug Interaction Evaluation: US Food and Drug Administration Update on CYP Enzymes, Transporters, and the Guidance Process. Journal of Clinical Pharmacology, 2008, 48, 662-670.	2.0	333
6	Approval Summary for Bortezomib for Injection in the Treatment of Multiple Myeloma. Clinical Cancer Research, 2004, 10, 3954-3964.	7.0	316
7	Analyzing trend and forecasting of rainfall changes in India using non-parametrical and machine learning approaches. Scientific Reports, 2020, 10, 10342.	3.3	220
8	Satellite altimeterâ€derived monthly discharge of the Gangaâ€Brahmaputra River and its seasonal to interannual variations from 1993 to 2008. Journal of Geophysical Research, 2010, 115, .	3.3	174
9	Analysis and prediction of rainfall trends over Bangladesh using Mannâ€"Kendall, Spearmanâ€™s rho tests and ARIMA model. Meteorology and Atmospheric Physics, 2017, 129, 409-424.	2.0	158
10	Gangaâ€Brahmaputra river discharge from Jasonâ€2 radar altimetry: An update to the longâ€term satelliteâ€derived estimates of continental freshwater forcing flux into the Bay of Bengal. Journal of Geophysical Research, 2012, 117, .	3.3	138
11	Monitoring Urban Sprawl Using Remote Sensing and GIS Techniques of a Fast Growing Urban Centre, India. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2011, 4, 56-64.	4.9	136
12	Modeling urban heat islands in heterogeneous land surface and its correlation with impervious surface area by using night-time ASTER satellite data in highly urbanizing city, Delhi-India. Advances in Space Research, 2013, 52, 639-655.	2.6	133
13	Modernizing Clinical Trial Eligibility Criteria: Recommendations of the American Society of Clinical Oncologyâ€"Friends of Cancer Research Organ Dysfunction, Prior or Concurrent Malignancy, and Comorbidities Working Group. Journal of Clinical Oncology, 2017, 35, 3753-3759.	1.6	130
14	Dynamics of ecosystem services (ESs) in response to land use land cover (LU/LC) changes in the lower Gangetic plain of India. Ecological Indicators, 2020, 112, 106121.	6.3	130
15	U.S. Food and Drug Administration Approval: Ruxolitinib for the Treatment of Patients with Intermediate and High-Risk Myelofibrosis. Clinical Cancer Research, 2012, 18, 3212-3217.	7.0	118
16	Geospatial and geostatistical approach for groundwater potential zone delineation. Hydrological Processes, 2015, 29, 395-418.	2.6	116
17	Assessment of Land use/land cover Change in the North-West District of Delhi Using Remote Sensing and GIS Techniques. Journal of the Indian Society of Remote Sensing, 2012, 40, 689-697.	2.4	115
18	Time dependent pharmacokinetics of pembrolizumab in patients with solid tumor and its correlation with best overall response. Journal of Pharmacokinetics and Pharmacodynamics, 2017, 44, 403-414.	1.8	103

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19	Land use/land cover change and its impact on surface urban heat island and urban thermal comfort in a metropolitan city. Urban Climate, 2022, 41, 101052.	5.7	91
20	The Combination of Exposureâ€Response and Caseâ€Control Analyses in Regulatory Decision Making. Journal of Clinical Pharmacology, 2013, 53, 160-166.	2.0	89
21	Supporting Global Environmental Change Research: A Review of Trends and Knowledge Gaps in Urban Remote Sensing. Remote Sensing, 2014, 6, 3879-3905.	4.0	85
22	Population Pharmacokinetic-Based Dosing of Intravenous Busulfan in Pediatric Patients. Journal of Clinical Pharmacology, 2007, 47, 101-111.	2.0	84
23	Utility of a physiologicallyâ€“based pharmacokinetic (PBPK) modeling approach to quantitatively predict a complex drugâ€“drugâ€“disease interaction scenario for rivaroxaban during the drug review process: implications for clinical practice. Biopharmaceutics and Drug Disposition, 2012, 33, 99-110.	1.9	80
24	The Role of SN-38 Exposure,UGT1A1*28Polymorphism, and Baseline Bilirubin Level in Predicting Severe Irinotecan Toxicity. Journal of Clinical Pharmacology, 2007, 47, 78-86.	2.0	77
25	Approval Summary. Clinical Cancer Research, 2004, 10, 8147-8151.	7.0	76
26	Land surface emissivity retrieval based on moisture index from LANDSAT TM satellite data over heterogeneous surfaces of Delhi city. International Journal of Applied Earth Observation and Geoinformation, 2012, 19, 348-358.	2.8	76
27	Drought Hazard Evaluation in Boro Paddy Cultivated Areas of Western Bangladesh at Current and Future Climate Change Conditions. Advances in Meteorology, 2017, 2017, 1-12.	1.6	69
28	Assessment of trace elements of groundwater and their spatial distribution in Rangpur district, Bangladesh. Arabian Journal of Geosciences, 2017, 10, 1.	1.3	67
29	Expert system classification of urban land use/cover for Delhi, India. International Journal of Remote Sensing, 2008, 29, 4405-4427.	2.9	63
30	A Regulatory Science Perspective on Warfarin Therapy: A Pharmacogenetic Opportunity. Journal of Clinical Pharmacology, 2009, 49, 138-146.	2.0	62
31	Hydro-Geochemical Assessment of Groundwater Quality in Aseer Region, Saudi Arabia. Water (Switzerland), 2018, 10, 1847.	2.7	62
32	Impact of Gangesâ€“Brahmaputra interannual discharge variations on Bay of Bengal salinity and temperature during 1992â€“1999 period. Journal of Earth System Science, 2011, 120, 859-872.	1.3	61
33	Analysis of shoreline changes in Vishakhapatnam coastal tract of Andhra Pradesh, India: an application of digital shoreline analysis system (DSAS). Annals of GIS, 2020, 26, 361-376.	3.1	61
34	Understanding the Impact of Urbanization on Surface Urban Heat Islandsâ€”A Longitudinal Analysis of the Oasis Effect in Subtropical Desert Cities. Remote Sensing, 2017, 9, 672.	4.0	56
35	Changing pattern of urban landscape and its effect on land surface temperature in and around Delhi. Environmental Monitoring and Assessment, 2019, 191, 551.	2.7	55
36	High Concentrations of Organic Contaminants in Air from Ship Breaking Activities in Chittagong, Bangladesh. Environmental Science & Technology, 2015, 49, 11372-11380.	10.0	54

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37	Satellite-Driven Land Surface Temperature (LST) Using Landsat 5, 7 (TM/ETM+ SLC) and Landsat 8 (OLI/TIRS) Data and Its Association with Built-Up and Green Cover Over Urban Delhi, India. Remote Sensing in Earth Systems Sciences, 2018, 1, 63-78.	1.8	50
38	Urbanization and Quality of Urban Environment Using Remote Sensing and GIS Techniques in East Delhi-India. Journal of Geographic Information System, 2011, 03, 62-84.	0.5	50
39	Impervious surface growth and its inter-relationship with vegetation cover and land surface temperature in peri-urban areas of Delhi. Urban Climate, 2021, 37, 100799.	5.7	49
40	Modelling urban heat island (UHI) and thermal field variation and their relationship with land use indices over Delhi and Mumbai metro cities. Environment, Development and Sustainability, 2022, 24, 3762-3790.	5.0	49
41	Urban Heat Island Dynamics in Response to Land-Use/Land-Cover Change in the Coastal City of Mumbai. Journal of the Indian Society of Remote Sensing, 2021, 49, 2227-2247.	2.4	47
42	Application of Pharmacogenomics in Clinical Pharmacology. Toxicology Mechanisms and Methods, 2006, 16, 89-99.	2.7	44
43	Use of Vegetation Health Data for Estimation of Aus Rice Yield in Bangladesh. Sensors, 2009, 9, 2968-2975.	3.8	42
44	ANALYSIS OF MALARIA CASES IN BANGLADESH WITH REMOTE SENSING DATA. American Journal of Tropical Medicine and Hygiene, 2006, 74, 17-19.	1.4	41
45	Lessons Learned: Dose Selection of Small Moleculeâ€“Targeted Oncology Drugs. Clinical Cancer Research, 2016, 22, 2630-2638.	7.0	40
46	Estimating urban growth in peri-urban areas and its interrelationships with built-up density using earth observation datasets. Annals of Regional Science, 2020, 65, 67-82.	2.1	36
47	Association between full service and fast food restaurant density, dietary intake and overweight/obesity among adults in Delhi, India. BMC Public Health, 2018, 18, 36.	2.9	34
48	Coupling geographic information system integrated fuzzy logic-analytical hierarchy process with global and machine learning based sensitivity analysis for agricultural suitability mapping. Agricultural Systems, 2022, 196, 103343.	6.1	34
49	Analysis of reference evapotranspiration (ET0) trends under climate change in Bangladesh using observed and CMIP5 data sets. Meteorology and Atmospheric Physics, 2019, 131, 639-655.	2.0	30
50	Longitudinal study of land surface temperature (LST) using mono- and split-window algorithms and its relationship with NDVI and NDBI over selected metro cities of India. Arabian Journal of Geosciences, 2020, 13, 1.	1.3	30
51	The history of rainfall data time-resolution in a wide variety of geographical areas. Journal of Hydrology, 2020, 590, 125258.	5.4	29
52	Indices based assessment of built-up density and urban expansion of fast growing Surat city using multi-temporal Landsat data sets. Geo Journal, 2021, 86, 1607-1623.	3.1	29
53	Spatiotemporal changes of vegetation and land surface temperature in the refugee camps and its surrounding areas of Bangladesh after the Rohingya influx from Myanmar. Environment, Development and Sustainability, 2021, 23, 3562-3577.	5.0	29
54	Interaction Between 5-Fluorouracil, [6RS]Leucovorin, and Recombinant Human Interferon-Î±2a in Cultured Colon Adenocarcinoma Cells. European Journal of Implant and Refractive Surgery, 1991, 3, 225-231.	0.3	29

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55	Assessment of public open spaces (POS) and landscape quality based on per capita POS index in Delhi, India. SN Applied Sciences, 2019, 1, 1.	2.9	28
56	Landscape dynamic characteristics using satellite data for a mountainous watershed of Abha, Kingdom of Saudi Arabia. Environmental Earth Sciences, 2014, 72, 4973-4984.	2.7	27
57	Growth of Dehradun city: An application of linear spectral unmixing (LSU) technique using multi-temporal landsat satellite data sets. Remote Sensing Applications: Society and Environment, 2015, 1, 98-111.	1.5	27
58	A novel classifier for improving wetland mapping by integrating image fusion techniques and ensemble machine learning classifiers. Ecological Informatics, 2021, 65, 101426.	5.2	27
59	Alarming groundwater depletion in the Delhi Metropolitan Region: a long-term assessment. Environmental Monitoring and Assessment, 2020, 192, 620.	2.7	26
60	Characterization of thermal environment over heterogeneous surface of National Capital Region (NCR), India using LANDSAT-8 sensor for regional planning studies. Urban Climate, 2018, 24, 1-18.	5.7	24
61	Variability of diurnal temperature range over Pacific Island countries, a case study of Fiji. Meteorology and Atmospheric Physics, 2021, 133, 85-95.	2.0	24
62	Analysis of peri-urban land use/land cover change and its drivers using geospatial techniques and geographically weighted regression. Environmental Science and Pollution Research, 2023, 30, 116421-116439.	5.3	24
63	Spatio-temporal analysis of precipitation pattern and trend using standardized precipitation index and Mannâ€“Kendall test in coastal Andhra Pradesh. Modeling Earth Systems and Environment, 2022, 8, 2733-2752.	3.4	22
64	Cytotoxic Anticancer Agents and Renal Impairment Study: The Challenge Remains. Journal of Clinical Oncology, 2006, 24, 533-536.	1.6	21
65	Impact of meteorological parameters on COVID-19 transmission in Bangladesh: a spatiotemporal approach. Theoretical and Applied Climatology, 2021, 144, 273-285.	2.8	21
66	Assessing the Spatial Mapping of Heat Vulnerability under Urban Heat Island (UHI) Effect in the Dhaka Metropolitan Area. Sustainability, 2022, 14, 4945.	3.2	20
67	Application of Advanced Very High Resolution Radiometer (AVHRR)-based Vegetation Health Indices for Estimation of Malaria Cases. American Journal of Tropical Medicine and Hygiene, 2010, 82, 1004-1009.	1.4	19
68	Novel hybrid models to enhance the efficiency of groundwater potentiality model. Applied Water Science, 2022, 12, 1.	5.6	19
69	Assessing income-wise household environmental conditions and disease profile in urban areas: Study of an Indian city. Geo Journal, 2006, 65, 211-227.	3.1	18
70	Remote Monitoring and Control of Microgrid using Smart Sensor Network and Internet of Thing. , 2018, , .		18
71	The Value Meal: Effect of Food on Lapatinib Bioavailability. Journal of Clinical Oncology, 2007, 25, 5333-5334.	1.6	16
72	Spatiotemporal variability of rainfall linked to ground water level under changing climate in northwestern region, Bangladesh. , 0, , 35-56.		16

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73	Groundwater potentiality mapping using ensemble machine learning algorithms for sustainable groundwater management. Frontiers in Engineering and Built Environment, 2022, 2, 43-54.	1.5	16
74	Income, environment and health. Habitat International, 1996, 20, 77-91.	5.8	15
75	Spatial variability of soil erodibility and its correlation with soil properties in semi-arid mountainous watershed, Saudi Arabia. Geocarto International, 2016, 31, 661-681.	3.5	15
76	Examining the rainfallâ€“topography relationship using non-stationary modelling technique in semi-arid Aseer region, Saudi Arabia. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	14
77	Assessing the Impact of the Farakka Barrage on Hydrological Alteration in the Padma River with Future Insight. Sustainability, 2022, 14, 5233.	3.2	14
78	Analysing Process and Probability of Built-Up Expansion Using Machine Learning and Fuzzy Logic in English Bazar, West Bengal. Remote Sensing, 2022, 14, 2349.	4.0	14
79	Spatiotemporal variations of thunderstorm frequency and its prediction over Bangladesh. Meteorology and Atmospheric Physics, 2020, 132, 793-808.	2.0	13
80	Application of Remote Sensing and GIS Technique for Urban Environmental Management and Sustainable Development of Delhi, India. , 2007, , 165-197.		13
81	Analysis of malaria cases in Bangladesh with remote sensing data. American Journal of Tropical Medicine and Hygiene, 2006, 74, 17-9.	1.4	13
82	Evaluating the variability in long-term rainfall over India with advanced statistical techniques. Acta Geophysica, 2022, 70, 801-818.	2.0	12
83	Developing Robust Flood Susceptibility Model with Small Numbers of Parameters in Highly Fertile Regions of Northwest Bangladesh for Sustainable Flood and Agriculture Management. Sustainability, 2022, 14, 3982.	3.2	12
84	Cellular pharmacology of 5-fluorouracil in a human colon adenocarcinoma cell line selected for thymidine kinase deficiency. Biochemical Pharmacology, 1990, 39, 1759-1765.	4.4	11
85	Are Hepatic Impairment Studies Necessary for Therapeutic Proteins?. Clinical Therapeutics, 2013, 35, 1444-1451.	2.5	11
86	Land use/land cover (LU/LC) change dynamics using indices overlay method in Gautam Buddha Nagar District-India. Geo Journal, 2022, 87, 2287-2305.	3.1	11
87	Spatiotemporal rice yield variations and potential agro-adaptation strategies in Bangladesh: A biophysical modeling approach. Sustainable Production and Consumption, 2020, 24, 121-138.	11.0	10
88	Coastal Vulnerability Mapping by Integrating Geospatial Techniques and Analytical Hierarchy Process (AHP) along the Vishakhapatnam Coastal Tract, Andhra Pradesh, India. Journal of the Indian Society of Remote Sensing, 2021, 49, 215-231.	2.4	10
89	Developing groundwater potentiality models by coupling ensemble machine learning algorithms and statistical techniques for sustainable groundwater management. Geocarto International, 2022, 37, 7927-7953.	3.5	10
90	Metabolic Drug-Drug Interactions: Perspective from FDA Medical and Clinical Pharmacology Reviewers. Advances in Pharmacology, 1997, 43, 231-238.	2.0	9

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91	Malaria and related environmental issues in India: a case study of Aligarh city. Geo Journal, 2001, 53, 89-99.	3.1	9
92	Assessing the effect of future landslide on ecosystem services in Aqabat Al-Sulbat region, Saudi Arabia. Natural Hazards, 2022, 113, 641-671.	3.4	9
93	Integration of statistical models and ensemble machine learning algorithms (MLAs) for developing the novel hybrid groundwater potentiality models: a case study of semi-arid watershed in Saudi Arabia. Geocarto International, 2022, 37, 6442-6473.	3.5	8
94	Spatial and temporal trends of urban green spaces: an assessment using hyper-temporal NDVI datasets. Geocarto International, 2022, 37, 7983-8003.	3.5	7
95	Improving Wetland Mapping Techniques Using the Integration of Image Fusion Techniques and Artificial Neural Network (ANN). , 2021, , 149-164.		6
96	Lake water volume calculation using time series LANDSAT satellite data: a geospatial analysis of Deepor Beel Lake, Guwahati. Frontiers in Engineering and Built Environment, 2021, ahead-of-print, .	1.5	6
97	Characterizing the Urban Decadal Expansion and Its Morphology Using Integrated Spatial Approaches in Semi-Arid Mountainous Environment, Saudi Arabia. Polish Journal of Environmental Studies, 2021, 30, 4437-4451.	1.2	6
98	Establishing a Demographic, Development and Environmental Geospatial Surveillance Platform in India: Planning and Implementation. JMIR Public Health and Surveillance, 2018, 4, e66.	2.6	6
99	Secure Data Provenance in Internet of Things based Networks by Outsourcing Attribute based Signatures and using Bloom Filters. International Journal of Advanced Computer Science and Applications, 2019, 10, .	0.7	6
100	Monitoring drought pattern for pre- and post-monsoon seasons in a semi-arid region of western part of India. Environmental Monitoring and Assessment, 2022, 194, 396.	2.7	6
101	Flood susceptibility modeling in the urban watershed of Guwahati using improved metaheuristic-based ensemble machine learning algorithms. Geocarto International, 2022, 37, 12238-12266.	3.5	6
102	Physical characterisation of deprivation in cities: How can remote sensing help to profile poverty		5
103	Spatial stochastic model for predicting soil organic matter using remote sensing data. Geocarto International, 2022, 37, 413-444.	3.5	5
104	Implications of changes in temperature and precipitation on the discharge of Brahmaputra River in the urban watershed of Guwahati, India. Environmental Monitoring and Assessment, 2021, 193, 518.	2.7	5
105	Sediment organic matter and physicochemical properties of a multipurpose artificial lake to assess catchment land use: a case study of Kaptai lake, Bangladesh. Environmental Challenges, 2021, 3, 100070.	4.2	4
106	Assessing Pattern of Spatio-temporal Change in NCT of Delhi and its Peri-urban Areas using Geospatial Techniques. Urban Book Series, 2017, , 145-160.	0.6	4
107	Studies to determine antidiarrhoeal and spasmolytic activities of extract of Aegle marmelos. L fruit. Bangladesh Journal of Medical Science, 2018, 17, 205-211.	0.2	3
108	Circularly polarized conical beam microstrip patch antenna at S-band. , 2015, , .		2

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109	Application of Hybrid Machine Learning Algorithms for Flood Susceptibility Modeling. , 2022, , 105-118.		2
110	Long-term trends of groundwater level variations in response to local level land use land cover changes in Mumbai, India. Groundwater for Sustainable Development, 2022, 18, 100797.	4.6	2
111	The Informal Financial Sector in Bangladesh: An Appraisal of its Role in Development - A Reply. Development and Change, 1994, 25, 641-643.	3.3	1
112	Comparative Analysis on Applicability of Satellite and Meteorological Data for Prediction of Malaria in Endemic Area in Bangladesh. Journal of Tropical Medicine, 2010, 2010, 1-8.	1.7	1
113	Evaluation of data accuracies within a comprehensive geospatial-health data surveillance platform: SOMAARTH Demographic Development and Environmental Surveillance Site, Palwal, Haryana, India. Global Health, Epidemiology and Genomics, 2018, 3, e19.	0.8	1
114	Geo-Chemical Analysis Of Arsenic And Its Relationship With Physical Parameters: A Remote Sensing And GIS Based Study. ISEE Conference Abstracts, 2015, 2015, 810.	0.0	1
115	Removing long-term errors from the AVHRR observation based on Normalized Difference Vegetation Index (NDVI). , 2008, , .		0
116	Satellite-observed sensitivity of weather condition for predicting malaria vector distribution in Bandarban district, Bangladesh. Proceedings of SPIE, 2009, , .	0.8	0
117	Assessing spatial variations of groundwater arsenic with surface elevation, slope and water-table using geospatial techniques in Ballia district, India. Modeling Earth Systems and Environment, 2016, 2, 1.	3.4	0
118	Satellite-Derived Land Surface Temperature and Landscape Characterization of National Capital Region (NCR), India Using Multispectral and Thermal Data. Advances in Science, Technology and Innovation, 2018, , 1783-1785.	0.4	0
119	Geo-Spatial Analysis of Health Care Service Centres for Smart Cities: A Study of South-East District, Delhi-India. Urban Book Series, 2021, , 225-244.	0.6	0