Faisal Hossain

List of Publications by Year
in descending order

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132 papers	3,713 citations	126907 33 h-index	161849 54 g-index
139 all docs	139 docs citations	139 times ranked	4482 citing authors

#	Article	IF	Citations
1	Land use/land cover changes and climate: modeling analysis and observational evidence. Wiley Interdisciplinary Reviews: Climate Change, 2011, 2, 828-850.	8.1	585
2	A first approach to global runoff simulation using satellite rainfall estimation. Water Resources Research, 2007, 43, .	4.2	150
3	The influence of large dams on surrounding climate and precipitation patterns. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	133
4	Characterization of complex fluvial systems using remote sensing of spatial and temporal water level variations in the Amazon, Congo, and Brahmaputra Rivers. Earth Surface Processes and Landforms, 2010, 35, 294-304.	2.5	119
5	Understanding the Scale Relationships of Uncertainty Propagation of Satellite Rainfall through a Distributed Hydrologic Model. Journal of Hydrometeorology, 2010, 11, 520-532.	1.9	98
6	Satellite-based Flood Modeling Using TRMM-based Rainfall Products. Sensors, 2007, 7, 3416-3427.	3.8	76
7	Understanding the impact of damâ€triggered land use/land cover change on the modification of extreme precipitation. Water Resources Research, 2012, 48, .	4.2	71
8	Proof of Concept of an Altimeter-Based River Forecasting System for Transboundary Flow Inside Bangladesh. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 587-601.	4.9	71
9	A review of applications of satellite earth observation data for global societal benefit and stewardship of planet earth. Space Policy, 2016, 36, 46-54.	1.5	63
10	Comparison of ordinary kriging and artificial neural network for spatial mapping of arsenic contamination of groundwater. Stochastic Environmental Research and Risk Assessment, 2010, 24, 1-7.	4.0	57
11	Assessment of the weather research and forecasting model generalized parameterization schemes for advancement of precipitation forecasting in monsoonâ€driven river basins. Journal of Advances in Modeling Earth Systems, 2016, 8, 1210-1228.	3.8	54
12	Climate Feedbackâ€“Based Provisions for Dam Design, Operations, and Water Management in the 21st Century. Journal of Hydrologic Engineering - ASCE, 2012, 17, 837-850.	1.9	53
13	Satellite Precipitation Dataâ€“Driven Hydrological Modeling for Water Resources Management in the Ganges, Brahmaputra, and Meghna Basins. Earth Interactions, 2014, 18, 1-25.	1.5	53
14	Flood prediction in the future: Recognizing hydrologic issues in anticipation of the Global Precipitation Measurement mission. Water Resources Research, 2006, 42, .	4.2	52
15	Spatiotemporal interpolation of discharge across a river network by using synthetic SWOT satellite data. Water Resources Research, 2015, 51, 430-449.	4.2	52
16	Inter-comparison study of water level estimates derived from hydrodynamicâ€“hydrologic model and satellite altimetry for a complex deltaic environment. Remote Sensing of Environment, 2011, 115, 1522-1531.	11.0	51
17	A generic data-driven technique for forecasting of reservoir inflow: Application for hydropower maximization. Environmental Modelling and Software, 2019, 119, 147-165.	4.5	51
18	Inferring reservoir operating patterns across the <scp>M</scp>ekong <scp>B</scp>asin using only space observations. Water Resources Research, 2017, 53, 3791-3810.	4.2	50

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19	Benchmarking wide swath altimetryâ€based river discharge estimation algorithms for the Ganges river system. Water Resources Research, 2016, 52, 2439-2461.	4.2	46
20	Spatial Assessment of Water Quality in Peripheral Rivers of Dhaka City for Optimal Relocation of Water Intake Point. Water Resources Management, 2008, 22, 377-391.	3.9	44
21	Tracing hydrologic model simulation error as a function of satellite rainfall estimation bias components and land use and land cover conditions. Water Resources Research, 2012, 48, .	4.2	44
22	Assessing the Potential of the Surface Water and Ocean Topography Mission for Reservoir Monitoring in the Mekong River Basin. Water Resources Research, 2019, 55, 444-461.	4.2	44
23	Maximizing energy production from hydropower dams using short-term weather forecasts. Renewable Energy, 2020, 146, 1560-1577.	8.9	44
24	Improving flood forecasting in international river basins. Eos, 2006, 87, 49.	0.1	43
25	Satellite Gravimetric Estimation of Groundwater Storage Variations Over Indus Basin in Pakistan. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 3524-3534.	4.9	43
26	Automated Generation of Lakes and Reservoirs Water Elevation Changes From Satellite Radar Altimetry. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 3465-3481.	4.9	42
27	Have Large Dams Altered Extreme Precipitation Patterns?. Eos, 2009, 90, 453-454.	0.1	39
28	Global Estimates of River Flow Wave Travel Times and Implications for Lowâ€Latency Satellite Data. Geophysical Research Letters, 2018, 45, 7551-7560.	4.0	39
29	Integrated groundwater resource management in Indus Basin using satellite gravimetry and physical modeling tools. Environmental Monitoring and Assessment, 2017, 189, 128.	2.7	37
30	The emerging role of satellite rainfall data in improving the hydro-political situation of flood monitoring in the under-developed regions of the world. Natural Hazards, 2007, 43, 199-210.	3.4	36
31	Dam safety effects due to human alteration of extreme precipitation. Water Resources Research, 2010, 46, .	4.2	36
32	Impact of Artificial Reservoir Size and Land Use/Land Cover Patterns on Probable Maximum Precipitation and Flood: Case of Folsom Dam on the American River. Journal of Hydrologic Engineering - ASCE, 2013, 18, 1180-1190.	1.9	36
33	Probable Maximum Precipitation in the U.S. Pacific Northwest in a Changing Climate. Water Resources Research, 2017, 53, 9600-9622.	4.2	35
34	Understanding Reservoir Operating Rules in the Transboundary Nile River Basin Using Macroscale Hydrologic Modeling with Satellite Measurements. Journal of Hydrometeorology, 2019, 20, 2253-2269.	1.9	35
35	Understanding satelliteâ€based monthlyâ€toâ€seasonal reservoir outflow estimation as a function of hydrologic controls. Water Resources Research, 2016, 52, 4095-4115.	4.2	34
36	Spatial pattern of arsenic contamination in shallow wells of Bangladesh: regional geology and nonlinear dynamics. Stochastic Environmental Research and Risk Assessment, 2006, 20, 66-76.	4.0	32

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37	A Fusion Approach for Water Area Classification Using Visible, Near Infrared and Synthetic Aperture Radar for South Asian Conditions. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 2471-2480.	6.3	32
38	How Much Can A Priori Hydrologic Model Predictability Help in Optimal Merging of Satellite Precipitation Products?. Journal of Hydrometeorology, 2011, 12, 1287-1298.	1.9	31
39	A Promising Radar Altimetry Satellite System for Operational Flood Forecasting in Flood-Prone Bangladesh. IEEE Geoscience and Remote Sensing Magazine, 2014, 2, 27-36.	9.6	31
40	Crossing the â€œValley of Deathâ€: Lessons Learned from Implementing an Operational Satellite-Based Flood Forecasting System. Bulletin of the American Meteorological Society, 2014, 95, 1201-1207.	3.3	31
41	Impacts of Postdam Land Use/Land Cover Changes on Modification of Extreme Precipitation in Contrasting Hydroclimate and Terrain Features. Journal of Hydrometeorology, 2014, 15, 777-800.	1.9	31
42	Advancing river modelling in ungauged basins using satellite remote sensing: the case of the Gangesâ€“Brahmaputraâ€“Meghna basin. International Journal of River Basin Management, 2016, 14, 103-117.	2.7	31
43	Geostatistically based management of arsenic contaminated ground water in shallow wells of Bangladesh. Water Resources Management, 2007, 21, 1245-1261.	3.9	29
44	A model-aided satellite-altimetry-based flood forecasting system for the Mekong River. Environmental Modelling and Software, 2019, 112, 112-127.	4.5	28
45	Empirical Relationship between Large Dams and the Alteration in Extreme Precipitation. Natural Hazards Review, 2010, 11, 97-101.	1.5	27
46	Quality assessment of freshwaters from a coastal city of southern Bangladesh: Irrigation feasibility and preliminary health risks appraisal. Environmental Nanotechnology, Monitoring and Management, 2021, 16, 100524.	2.9	26
47	Investigating the Optimal Configuration of Conceptual Hydrologic Models for Satellite-Rainfall-Based Flood Prediction. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 532-536.	3.1	25
48	Water sustainability of large cities in the United States from the perspectives of population increase, anthropogenic activities, and climate change. Earth's Future, 2016, 4, 603-617.	6.3	24
49	Towards a global Reservoir Assessment Tool for predicting hydrologic impacts and operating patterns of existing and planned reservoirs. Environmental Modelling and Software, 2021, 140, 105043.	4.5	24
50	Short note: A review of state of the art on treaties in relation to management of transboundary flooding in international river basins and the Global Precipitation Measurement mission. Water Policy, 2010, 12, 635-640.	1.5	20
51	Investigating the mesoscale impact of artificial reservoirs on frequency of rain during growing season. Water Resources Research, 2012, 48, .	4.2	19
52	Hindcast and forecast of daily inundation extents using satellite SAR and altimetry data with rotated empirical orthogonal function analysis: Case study in Tonle Sap Lake Floodplain. Remote Sensing of Environment, 2020, 241, 111732.	11.0	19
53	Is correlation dimension a reliable proxy for the number of dominant influencing variables for modeling risk of arsenic contamination in groundwater?. Stochastic Environmental Research and Risk Assessment, 2008, 22, 47-55.	4.0	18
54	Hydropowerâ€™s hidden transformation of rivers in the Mekong. Environmental Research Letters, 2020, 15, 044017.	5.2	18

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55	A blueprint for adapting high Aswan dam operation in Egypt to challenges of filling and operation of the Grand Ethiopian Renaissance dam. Journal of Hydrology, 2021, 598, 125708.	5.4	18
56	Radial basis function neural network for hydrologic inversion: an appraisal with classical and spatio-temporal geostatistical techniques in the context of site characterization. Stochastic Environmental Research and Risk Assessment, 2009, 23, 933-945.	4.0	17
57	Revisiting extreme storms of the past 100 years for future safety of large water management infrastructures. Earth's Future, 2016, 4, 306-322.	6.3	17
58	Understanding Future Safety of Dams in a Changing Climate. Bulletin of the American Meteorological Society, 2019, 100, 1395-1404.	3.3	17
59	Using a multi-dimensional satellite rainfall error model to characterize uncertainty in soil moisture fields simulated by an offline land surface model. Geophysical Research Letters, 2005, 32, .	4.0	16
60	Towards Formulation of a Space-borne System for Early Warning of Floods: Can Cost-Effectiveness Outweigh Prediction Uncertainty?. Natural Hazards, 2006, 37, 263-276.	3.4	16
61	The climateâ€waterâ€health nexus in emerging megacities. Eos, 2012, 93, 353-354.	0.1	16
62	Hydrological model using ground- and satellite-based data for river flow simulation towards supporting water resource management in the Red River Basin, Vietnam. Journal of Environmental Management, 2018, 217, 346-355.	7.8	16
63	100 Years of Progress in Hydrology. Meteorological Monographs, 2018, 59, 25.1-25.51.	5.0	16
64	Atmospheric Riverâ€“Induced Precipitation and Snowpack during the Western United States Cold Season. Journal of Hydrometeorology, 2019, 20, 613-630.	1.9	16
65	Forecast-informed hydropower optimization at long and short-time scales for a multiple dam network. Journal of Renewable and Sustainable Energy, 2020, 12, .	2.0	16
66	Investigating Spatial Downscaling of Satellite Rainfall Data for Streamflow Simulation in a Medium-Sized Basin. Journal of Hydrometeorology, 2009, 10, 1063-1079.	1.9	15
67	Making Satellite Precipitation Data Work for the Developing World. IEEE Geoscience and Remote Sensing Magazine, 2014, 2, 24-36.	9.6	15
68	Feasibility of managed domestic rainwater harvesting in South Asian rural areas using remote sensing. Resources, Conservation and Recycling, 2017, 125, 157-168.	10.8	15
69	An open-book watershed model for prototyping space-borne flood monitoring systems in International River Basins. Environmental Modelling and Software, 2007, 22, 1720-1731.	4.5	14
70	Are General Circulation Models Ready for Operational Streamflow Forecasting for Water Management in the Ganges and Brahmaputra River Basins?. Journal of Hydrometeorology, 2016, 17, 195-210.	1.9	14
71	Predicting Water Availability of the Regulated Mekong River Basin Using Satellite Observations and a Physical Model. Asian Journal of Water, Environment and Pollution, 2017, 14, 39-48.	0.5	14
72	Understanding Model-Based Probable Maximum Precipitation Estimation as a Function of Location and Season from Atmospheric Reanalysis. Journal of Hydrometeorology, 2018, 19, 459-475.	1.9	14

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73	A highly sensitive and selective spectrofluorimetric method for the determination of manganese at nanotrace levels in some real, environmental, biological, soil, food and pharmaceutical samples using 2-(Î±-pyridyl)-thioquinaldinamide. RSC Advances, 2018, 8, 5509-5522.	3.6	14
74	An altimeter height extraction technique for dynamically changing rivers of South and South-East Asia. Remote Sensing of Environment, 2019, 221, 24-37.	11.0	14
75	Generating Proxy SWOT Water Surface Elevations Using WRFâ€Hydro and the CNES SWOT Hydrology Simulator. Water Resources Research, 2020, 56, e2020WR027464.	4.2	14
76	The Value of Long-Term Streamflow Forecasts in Adaptive Reservoir Operation: The Case of the High Aswan Dam in the Transboundary Nile River Basin. Journal of Hydrometeorology, 2021, 22, 1099-1115.	1.9	13
77	Understanding the Geophysical Sources of Uncertainty for Satellite Interferometric (SRTM)-Based Discharge Estimation in River Deltas: The Case for Bangladesh. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 523-538.	4.9	12
78	A Model-Based Assessment of Potential Impacts of Man-Made Reservoirs on Precipitation. Earth Interactions, 2017, 21, 1-31.	1.5	12
79	Improving operational flood forecasting in monsoon climates with bias-corrected quantitative forecasting of precipitation. International Journal of River Basin Management, 2019, 17, 411-421.	2.7	12
80	Estimating Impacts of Dam Development and Landscape Changes on Suspended Sediment Concentrations in the Mekong River Basinâ€™s 3S Tributaries. Journal of Hydrologic Engineering - ASCE, 2020, 25, .	1.9	12
81	Satellite observations reveal 13 years of reservoir filling strategies, operating rules, and hydrological alterations in the Upper Mekong River basin. Hydrology and Earth System Sciences, 2022, 26, 2345-2364.	4.9	12
82	Statistical characterization of arsenic contamination in shallow tube wells of western Bangladesh. Hydrological Processes, 2006, 20, 1497-1510.	2.6	11
83	Role of Landâ€“Water Classification and Manning's Roughness Parameter in Space-Borne Estimation of Discharge for Braided Rivers: A Case Study of the Brahmaputra River in Bangladesh. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2010, 3, 395-403.	4.9	11
84	Recent warming of Tonle Sap Lake, Cambodia: Implications for one of the worldâ€™s most productive inland fisheries. Lakes and Reservoirs: Research and Management, 2020, 25, 133-142.	0.9	11
85	Monitoring River Basin Development and Variation in Water Resources in Transboundary Imjin River in North and South Korea Using Remote Sensing. Remote Sensing, 2020, 12, 195.	4.0	11
86	Predicting the Likely Thermal Impact of Current and Future Dams Around the World. Earth's Future, 2021, 9, e2020EF001916.	6.3	11
87	Toward a Methodology to Investigate the Downstream Flood Hazards on the American River due to Changes in Probable Maximum Flood due to Effects of Artificial Reservoir Size and Land-Use/Land-Cover Patterns. Earth Interactions, 2013, 17, 1-24.	1.5	10
88	Tidal river management in Bangladesh. Nature Climate Change, 2015, 5, 492-492.	18.8	10
89	A web-based decision support system for smart dam operations using weather forecasts. Journal of Hydroinformatics, 2019, 21, 687-707.	2.4	10
90	Stakeholder-driven development of a cloud-based, satellite remote sensing tool to monitor suspended sediment concentrations in major Bangladesh rivers. Environmental Modelling and Software, 2020, 133, 104843.	4.5	10

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91	Data for All: Using Satellite Observations for Social Good. Eos, 2015, 96, .	0.1	10
92	Engaging the User Community for Advancing Societal Applications of the Surface Water Ocean Topography Mission. Bulletin of the American Meteorological Society, 2017, 98, ES285-ES290.	3.3	9
93	Monitoring Variations in Lake Water Storage with Satellite Imagery and Citizen Science. Water (Switzerland), 2021, 13, 949.	2.7	9
94	A computationally efficient flash flood early warning system for a mountainous and transboundary river basin in Bangladesh. Journal of Hydroinformatics, 2020, 22, 1672-1692.	2.4	9
95	Transfer of satellite rainfall error from gaged to ungaged locations: How realistic will it be for the Global Precipitation Mission?. Geophysical Research Letters, 2009, 36, .	4.0	8
96	A scalable open-source web-analytic framework to improve satellite-based operational water management in developing countries. Journal of Hydroinformatics, 2018, 20, 49-68.	2.4	8
97	Case Study: Rapid Urban Inundation Forecasting Technique Based on Quantitative Precipitation Forecast for Houston and Harris County Flood Control District. Journal of Hydrologic Engineering - ASCE, 2019, 24, .	1.9	8
98	Evaluating the hydropower potential of the Grand Ethiopian Renaissance Dam. Journal of Renewable and Sustainable Energy, 2021, 13, .	2.0	8
99	Accelerating Applications for Planned NASA Satellite Missions: A New Paradigm of Virtual Hackathons during a Pandemic and in the Post-Pandemic Era. Bulletin of the American Meteorological Society, 2020, 101, E1544-E1554.	3.3	8
100	Success Stories of Satellite Radar Altimeter Applications. Bulletin of the American Meteorological Society, 2022, 103, E33-E53.	3.3	8
101	A Forensic Look at Groundwater Arsenic Contamination in Bangladesh. Environmental Forensics, 2008, 9, 364-374.	2.6	7
102	Review of Approaches and Recommendations for Improving Resilience of Water Management Infrastructure: The Case for Large Dams. Journal of Infrastructure Systems, 2017, 23, .	1.8	7
103	Evaluating Conveyance-Based DEM Correction Technique on NED and SRTM DEMs for Flood Impact Assessment of the 2010 Cumberland River Flood. Geosciences (Switzerland), 2017, 7, 132.	2.2	7
104	Sensitivity of initialâ€condition and cloud microphysics to the forecasting of monsoon rainfall in South Asia. Meteorological Applications, 2018, 25, 493-509.	2.1	7
105	Understanding Volumetric Water Storage in Monsoonal Wetlands of Northeastern Bangladesh. Water Resources Research, 2020, 56, e2020WR027989.	4.2	7
106	What Do Experienced Water Managers Think of Water Resources of Our Nation and Its Management Infrastructure?. PLoS ONE, 2015, 10, e0142073.	2.5	7
107	Making Sense of the Water Resources That Will Be Available for Future use. Eos, 2011, 92, 144-145.	0.1	6
108	Maximizing Hydropower Generation with Observations and Numerical Modeling of the Atmosphere. Journal of Hydrologic Engineering - ASCE, 2016, 21, .	1.9	6

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109	Viscometric Studies of Molecular Interactions in Binary Liquid Mixtures of Isomeric Xylenes with Methanol. Journal of Chemical & Engineering Data, 2018, 63, 1370-1381.	1.9	6
110	Orthophosphate Quantification in Water Utilizing an Enzymatic Reaction and a Commercial Glucometer Test Strip. Analytical Chemistry, 2022, 94, 2056-2062.	6.5	6
111	Assessment of a Probabilistic Scheme for Flood Prediction. Journal of Hydrologic Engineering - ASCE, 2005, 10, 141-150.	1.9	5
112	Satellites as the Panacea to Transboundary Limitations for Longer Term Flood Forecasting?. Water International, 2007, 32, 376-379.	1.0	5
113	Study of the Antioxidative Properties of Several Amino Acidâ€Type Surfactants and their Synergistic Effect in Mixed Micelle. Journal of Surfactants and Detergents, 2020, 23, 99-108.	2.1	5
114	Environmental and Social Risks to Biodiversity and Ecosystem Healthâ€”A Bottom-Up, Resource-Focused Assessment Framework. Earth, 2021, 2, 440-456.	2.2	5
115	Establishing a Numerical Modeling Framework for Hydrologic Engineering Analyses of Extreme Storm Events. Journal of Hydrologic Engineering - ASCE, 2017, 22, .	1.9	4
116	Study of Antioxidative Properties of Some Mono Aminoâ€Acidâ€Type and Dipeptideâ€Type Surfactants. Journal of Surfactants and Detergents, 2018, 21, 733-744.	2.1	4
117	A Rapid Spectrofluorometric Method for the Determination of Aluminum at Nano-trace Levels in Some Real, Environmental, Biological, Hemodialysis, Food, Pharmaceutical, and Soil Samples Using 2â€²,3,4â€²,5,7-Pentahydroxyflavone. Analytical Sciences, 2020, 36, 813-819.	1.6	4
118	Integrating Gravimetry Data With Thermal Infraâ€Red Data From Satellites to Improve Efficiency of Operational Irrigation Advisory in South Asia. Water Resources Research, 2021, 57, e2020WR028654.	4.2	4
119	Solubilization of Genistein in Phospholipid Vesicles and Their Atioxidant Capacity. Journal of Oleo Science, 2019, 68, 61-66.	1.4	3
120	A computerâ€aided visualization tool for stochastic theory education in water resources engineering. Computer Applications in Engineering Education, 2009, 17, 398-411.	3.4	2
121	Introduction to the Featured Series on Satellites and Transboundary Water: Emerging Ideas¹. Journal of the American Water Resources Association, 2009, 45, 551-552.	2.4	2
122	An open-source software for interactive visualization using C++ and OpenGL: Applications to stochastic theory education in water resources engineering. Computer Applications in Engineering Education, 2011, 19, 48-55.	3.4	2
123	Realizing ecosystem-safe hydropower from dams. Renewables: Wind, Water, and Solar, 2020, 7, 2.	3.7	2
124	Conclusion to the Featured Series on Satellites and Transboundary Water: Emerging Ideas¹. Journal of the American Water Resources Association, 2010, 46, 663-664.	2.4	1
125	Do Satellite Data Portals Today Reach Out to Diverse End Users Around the World?. Bulletin of the American Meteorological Society, 2012, 93, 1633-1634.	3.3	1
126	Viscometric studies of molecular interactions in binary mixtures of ethylbenzene with (C4 to C8) Alkan-1-ols. Journal of Molecular Liquids, 2021, 337, 116457.	4.9	1

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127	Developing a Baseline Characterization of River Bathymetry and Time-Varying Height for Chindwin River in Myanmar Using SRTM and Landsat Data. Journal of Hydrologic Engineering - ASCE, 2021, 26, .	1.9	1
128	Effect of Hydrophobic Chain Length on the Antioxidation Properties of Alanyl Tyrosine Dipeptide-type Surfactants. Journal of Oleo Science, 2022, 71, 215-222.	1.4	1
129	Forensic Analysis of Two Contrasting Satellite Rainfall Products for Detection of the July 2002 Flooding in South-Central Texas. Environmental Forensics, 2011, 12, 219-225.	2.6	0
130	Efficient Uncertainty Assessment for Satellite Rainfall Observations with Application to Flood Prediction. , 2004, , .		0
131	A Highly Selective and Simple Spectrophotometric Method for the Determination of Zinc at Nano-trace Levels in Some Environmental, Biological, Food, and Pharmaceutical Samples Using 2-hydroxynaphthaldehydebenzoylhydrazone. European Journal of Chemistry, 2020, 11, 160-167.	0.6	0
132	Reimagining the Surface Water and Ocean Topography Mission as the â€œLandsatâ€•of Surface Water [Perspective]. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 346-349.	9.6	0