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	Success Stories of Satellite Radar Altimeter Applications. Bulletin of the American Meteorological Society, 2022, 103, E33-E53.	3.3	8
2	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
3	Orthophosphate Quantification in Water Utilizing an Enzymatic Reaction and a Commercial Glucometer Test Strip. Analytical Chemistry, 2022, 94, 2056-2062.	6.5	6
4	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
5	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
6	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
7	Monitoring Variations in Lake Water Storage with Satellite Imagery and Citizen Science. Water (Switzerland), 2021, 13, 949.	2.7	9
8	Evaluating the hydropower potential of the Grand Ethiopian Renaissance Dam. Journal of Renewable and Sustainable Energy, 2021, 13, .	2.0	8
9	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
10	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
11	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
12	Environmental and Social Risks to Biodiversity and Ecosystem Healthâ€”A Bottom-Up, Resource-Focused Assessment Framework. Earth, 2021, 2, 440-456.	2.2	5
13	Predicting the Likely Thermal Impact of Current and Future Dams Around the World. Earth's Future, 2021, 9, e2020EF001916.	6.3	11
14	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
15	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
16	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
17	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
18	Maximizing energy production from hydropower dams using short-term weather forecasts. Renewable Energy, 2020, 146, 1560-1577.	8.9	44

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19	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
20	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
21	Understanding Volumetric Water Storage in Monsoonal Wetlands of Northeastern Bangladesh. Water Resources Research, 2020, 56, e2020WR027989.	4.2	7
22	Generating Proxy SWOT Water Surface Elevations Using WRFâ€Hydro and the CNES SWOT Hydrology Simulator. Water Resources Research, 2020, 56, e2020WR027464.	4.2	14
23	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
24	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
25	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
26	Hydropowerâ€™s hidden transformation of rivers in the Mekong. Environmental Research Letters, 2020, 15, 044017.	5.2	18
27	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
28	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
29	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
30	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
31	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
32	Realizing ecosystem-safe hydropower from dams. Renewables: Wind, Water, and Solar, 2020, 7, 2.	3.7	2
33	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
34	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
35	A web-based decision support system for smart dam operations using weather forecasts. Journal of Hydroinformatics, 2019, 21, 687-707.	2.4	10
36	Solubilization of Genistein in Phospholipid Vesicles and Their Atioxidant Capacity. Journal of Oleo Science, 2019, 68, 61-66.	1.4	3

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37	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
38	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
39	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
40	Understanding Future Safety of Dams in a Changing Climate. Bulletin of the American Meteorological Society, 2019, 100, 1395-1404.	3.3	17
41	Atmospheric Riverâ€"Induced Precipitation and Snowpack during the Western United States Cold Season. Journal of Hydrometeorology, 2019, 20, 613-630.	1.9	16
42	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
43	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
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	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
46	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
47	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
48	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
49	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
50	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
51	100 Years of Progress in Hydrology. Meteorological Monographs, 2018, 59, 25.1-25.51.	5.0	16
52	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
53	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
54	Integrated groundwater resource management in Indus Basin using satellite gravimetry and physical modeling tools. Environmental Monitoring and Assessment, 2017, 189, 128.	2.7	37

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55	Establishing a Numerical Modeling Framework for Hydrologic Engineering Analyses of Extreme Storm Events. Journal of Hydrologic Engineering - ASCE, 2017, 22, .	1.9	4
56	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
57	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
58	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
59	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
60	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
61	Probable Maximum Precipitation in the U.S. Pacific Northwest in a Changing Climate. Water Resources Research, 2017, 53, 9600-9622.	4.2	35
62	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
63	A Model-Based Assessment of Potential Impacts of Man-Made Reservoirs on Precipitation. Earth Interactions, 2017, 21, 1-31.	1.5	12
64	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
65	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
66	Maximizing Hydropower Generation with Observations and Numerical Modeling of the Atmosphere. Journal of Hydrologic Engineering - ASCE, 2016, 21, .	1.9	6
67	Benchmarking wide swath altimetryâ€based river discharge estimation algorithms for the Ganges river system. Water Resources Research, 2016, 52, 2439-2461.	4.2	46
68	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
69	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
70	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
71	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
72	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

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73	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
74	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
75	Spatiotemporal interpolation of discharge across a river network by using synthetic SWOT satellite data. Water Resources Research, 2015, 51, 430-449.	4.2	52
76	Tidal river management in Bangladesh. Nature Climate Change, 2015, 5, 492-492.	18.8	10
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	Data for All: Using Satellite Observations for Social Good. Eos, 2015, 96, .	0.1	10
79	What Do Experienced Water Managers Think of Water Resources of Our Nation and Its Management Infrastructure?. PLoS ONE, 2015, 10, e0142073.	2.5	7
80	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
81	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
82	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
83	Making Satellite Precipitation Data Work for the Developing World. IEEE Geoscience and Remote Sensing Magazine, 2014, 2, 24-36.	9.6	15
84	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
85	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
86	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
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	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
89	The climateâ€“waterâ€“health nexus in emerging megacities. Eos, 2012, 93, 353-354.	0.1	16
90	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

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91	Investigating the mesoscale impact of artificial reservoirs on frequency of rain during growing season. Water Resources Research, 2012, 48, .	4.2	19
92	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
93	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
94	The influence of large dams on surrounding climate and precipitation patterns. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	133
95	Making Sense of the Water Resources That Will Be Available for Future use. Eos, 2011, 92, 144-145.	0.1	6
96	Land use/land cover changes and climate: modeling analysis and observational evidence. Wiley Interdisciplinary Reviews: Climate Change, 2011, 2, 828-850.	8.1	585
97	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
98	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
99	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
100	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
101	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
102	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
103	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
104	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
105	Empirical Relationship between Large Dams and the Alteration in Extreme Precipitation. Natural Hazards Review, 2010, 11, 97-101.	1.5	27
106	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
107	Dam safety effects due to human alteration of extreme precipitation. Water Resources Research, 2010, 46, .	4.2	36
108	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

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109	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
110	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
111	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
112	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
113	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
114	Have Large Dams Altered Extreme Precipitation Patterns?. Eos, 2009, 90, 453-454.	0.1	39
115	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
116	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
117	A Forensic Look at Groundwater Arsenic Contamination in Bangladesh. Environmental Forensics, 2008, 9, 364-374.	2.6	7
118	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
119	Satellite-based Flood Modeling Using TRMM-based Rainfall Products. Sensors, 2007, 7, 3416-3427.	3.8	76
120	Satellites as the Panacea to Transboundary Limitations for Longer Term Flood Forecasting?. Water International, 2007, 32, 376-379.	1.0	5
121	A first approach to global runoff simulation using satellite rainfall estimation. Water Resources Research, 2007, 43, .	4.2	150
122	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
123	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
124	Geostatistically based management of arsenic contaminated ground water in shallow wells of Bangladesh. Water Resources Management, 2007, 21, 1245-1261.	3.9	29
125	Improving flood forecasting in international river basins. Eos, 2006, 87, 49.	0.1	43
126	Flood prediction in the future: Recognizing hydrologic issues in anticipation of the Global Precipitation Measurement mission. Water Resources Research, 2006, 42, .	4.2	52

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127	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
128	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
129	Statistical characterization of arsenic contamination in shallow tube wells of western Bangladesh. Hydrological Processes, 2006, 20, 1497-1510.	2.6	11
130	Assessment of a Probabilistic Scheme for Flood Prediction. Journal of Hydrologic Engineering - ASCE, 2005, 10, 141-150.	1.9	5
131	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
132	Efficient Uncertainty Assessment for Satellite Rainfall Observations with Application to Flood Prediction. , 2004, , .		0