Emad H Habib

List of Publications by Year
in descending order

73 papers	2,714 citations	186265 28 h-index	182427 51 g-index
75 all docs	75 docs citations	75 times ranked	2665 citing authors

#	Article	IF	Citations
1	Sampling Errors of Tipping-Bucket Rain Gauge Measurements. Journal of Hydrologic Engineering - ASCE, 2001, 6, 159-166.	1.9	295
2	An analysis of small-scale rainfall variability in different climatic regimes. Hydrological Sciences Journal, 2003, 48, 151-162.	2.6	196
3	Evaluation of TMPA satellite-based research and real-time rainfall estimates during six tropical-related heavy rainfall events over Louisiana, USA. Atmospheric Research, 2009, 94, 373-388.	4.1	148
4	Assessment and Implications of NCEP Stage IV Quantitative Precipitation Estimates for Product Intercomparisons. Weather and Forecasting, 2016, 31, 371-394.	1.4	145
5	Raindrop Size Distribution Measurements in Tropical Cyclones. Monthly Weather Review, 2008, 136, 1669-1685.	1.4	139
6	Uncertainty Analysis of the TRMM Ground-Validation Radar-Rainfall Products: Application to the TEFLUN-B Field Campaign. Journal of Applied Meteorology and Climatology, 2002, 41, 558-572.	1.7	118
7	Estimation of Rainfall Interstation Correlation. Journal of Hydrometeorology, 2001, 2, 621-629.	1.9	116
8	Conditional simulation of remotely sensed rainfall data using a non-Gaussian v-transformed copula. Advances in Water Resources, 2010, 33, 624-634.	3.8	103
9	Evaluation of the High-Resolution CMORPH Satellite Rainfall Product Using Dense Rain Gauge Observations and Radar-Based Estimates. Journal of Hydrometeorology, 2012, 13, 1784-1798.	1.9	95
10	Effect of Bias Correction of Satellite-Rainfall Estimates on Runoff Simulations at the Source of the Upper Blue Nile. Remote Sensing, 2014, 6, 6688-6708.	4.0	94
11	Validation of NEXRAD multisensor precipitation estimates using an experimental dense rain gauge network in south Louisiana. Journal of Hydrology, 2009, 373, 463-478.	5.4	80
12	Accounting for Uncertainties of the TRMM Satellite Estimates. Remote Sensing, 2009, 1, 606-619.	4.0	79
13	Analysis of radar-rainfall error characteristics and implications for streamflow simulation uncertainty. Hydrological Sciences Journal, 2008, 53, 568-587.	2.6	75
14	A method for filtering out raingauge representativeness errors from the verification distributions of radar and raingauge rainfall. Advances in Water Resources, 2004, 27, 967-980.	3.8	69
15	An improved procedure for the validation of satellite-based precipitation estimates. Atmospheric Research, 2015, 163, 61-73.	4.1	56
16	Evaluation of the climate prediction center (CPC) morphing technique (CMORPH) rainfall product on hourly time scales over the source of the Blue Nile River. Hydrological Processes, 2013, 27, 1829-1839.	2.6	54
17	Climatology-Focused Evaluation of CMORPH and TMPA Satellite Rainfall Products over the Nile Basin. Journal of Applied Meteorology and Climatology, 2012, 51, 2105-2121.	1.5	52
18	Denitrification in coastal Louisiana: A spatial assessment and research needs. Journal of Sea Research, 2010, 63, 157-172.	1.6	51

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19	Stage–Discharge Relations for Low-Gradient Tidal Streams Using Data-Driven Models. Journal of Hydraulic Engineering, 2006, 132, 482-492.	1.5	49
20	Evaluation of Bias Correction Method for Satellite-Based Rainfall Data. Sensors, 2016, 16, 884.	3.8	46
21	Copula–based uncertainty modelling: application to multisensor precipitation estimates. Hydrological Processes, 2010, 24, 2111-2124.	2.6	43
22	Estimation of tail dependence coefficient in rainfall accumulation fields. Advances in Water Resources, 2010, 33, 1142-1149.	3.8	36
23	Assessing Satellite-Based Rainfall Estimates in Semiarid Watersheds Using the USDA-ARS Walnut Gulch Gauge Network and TRMM PR. Journal of Hydrometeorology, 2012, 13, 1579-1588.	1.9	35
24	On the use of radar-based quantitative precipitation estimates for precipitation frequency analysis. Journal of Hydrology, 2015, 531, 441-453.	5.4	33
25	Accuracy of the CMORPH satellite-rainfall product over Lake Tana Basin in Eastern Africa. Atmospheric Research, 2015, 163, 177-187.	4.1	33
26	Effect of Local Errors of Tipping-Bucket Rain Gauges on Rainfall-Runoff Simulations. Journal of Hydrologic Engineering - ASCE, 2008, 13, 488-496.	1.9	29
27	Inter-comparison of satellite rainfall products for representing rainfall diurnal cycle over the Nile basin. International Journal of Applied Earth Observation and Geoinformation, 2013, 21, 230-240.	2.8	29
28	Independent Assessment of Incremental Complexity in NWS Multisensor Precipitation Estimator Algorithms. Journal of Hydrologic Engineering - ASCE, 2013, 18, 143-155.	1.9	29
29	Carbon capture and sequestration in power generation: review of impacts and opportunities for water sustainability. Energy, Sustainability and Society, 2018, 8, .	3.8	29
30	Assessment of a Spatiotemporal Deep Learning Approach for Soil Moisture Prediction and Filling the Gaps in Between Soil Moisture Observations. Frontiers in Artificial Intelligence, 2021, 4, 636234.	3.4	29
31	Small-scale catchment analysis of water stress in wet regions of the U.S.: an example from Louisiana. Environmental Research Letters, 2016, 11, 124031.	5.2	25
32	Quantifying Crash Risk under Inclement Weather with Radar Rainfall Data and Matched-Pair Method. Journal of Transportation Safety and Security, 2011, 3, 1-14.	1.6	22
33	Effect of rainfall spatial variability and sampling on salinity prediction in an estuarine system. Journal of Hydrology, 2008, 350, 56-67.	5.4	20
34	A comparison of three remotely sensed rainfall ensemble generators. Atmospheric Research, 2010, 98, 387-399.	4.1	20
35	Assessing Effects of Data Limitations on Salinity Forecasting in Barataria Basin, Louisiana, with a Bayesian Analysis. Journal of Coastal Research, 2007, 233, 749-763.	0.3	19
36	Sensitivity of Streamflow Simulations to Temporal Variability and Estimation of Z–R Relationships. Journal of Hydrologic Engineering - ASCE, 2008, 13, 1177-1186.	1.9	19

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37	Hydrologic applications of weather radar. Journal of Hydrology, 2015, 531, 231-233.	5.4	16
38	Numerical Modeling of the Mississippi-Atchafalaya Rivers' Sediment Transport and Fate: Considerations for Diversion Scenarios. Journal of Coastal Research, 2010, 262, 212-229.	0.3	15
39	Application of a radar-rainfall uncertainty model to the NWS multi-sensor precipitation estimator products. Meteorological Applications, 2013, 20, 276-286.	2.1	13
40	The Development of the INFEWS-ER: A Virtual Resource Center for Transdisciplinary Graduate Student Training at the Nexus of Food, Energy, and Water. Frontiers in Environmental Science, 2019, 7, .	3.3	13
41	Evaluation of Radar-Rainfall Products over Coastal Louisiana. Remote Sensing, 2020, 12, 1477.	4.0	11
42	Artifacts in Stage IV NWS Real-Time Multisensor Precipitation Estimates and Impacts on Identification of Maximum Series. Journal of Hydrologic Engineering - ASCE, 2017, 22, .	1.9	10
43	Building an Online Learning Module for Satellite Remote Sensing Applications in Hydrologic Science. Remote Sensing, 2020, 12, 3009.	4.0	10
44	Assessment of Riverine Dredging Impact on Flooding in Low-Gradient Coastal Rivers Using a Hybrid 1D/2D Hydrodynamic Model. Frontiers in Water, 2021, 3, .	2.3	10
45	Towards Broader Adoption of Educational Innovations in Undergraduate Water Resources Engineering: Views from Academia and Industry. Journal of Contemporary Water Research and Education, 2018, 164, 41-54.	0.7	8
46	Engineering Students' Perceptions of Mathematical Modeling in a Learning Module Centered on a Hydrologic Design Case Study. International Journal of Research in Undergraduate Mathematics Education, 2021, 7, 351-377.	1.8	8
47	Assessment of Aquifer Storage and Recovery Feasibility Using Numerical Modeling and Geospatial Analysis: Application in Louisiana. Journal of the American Water Resources Association, 2021, 57, 505-526.	2.4	8
48	Ground-based direct measurement. Geophysical Monograph Series, 2010, , 61-77.	0.1	7
49	A Framework for Incorporating the Impact of Water Quality on Water Supply Stress: An Example from Louisiana, USA. Journal of the American Water Resources Association, 2018, 54, 134-147.	2.4	7
50	Effect of Model Setup Complexity on Flood Modeling in Low-Gradient Basins. Journal of the American Water Resources Association, 2021, 57, 296-314.	2.4	7
51	Effect of rainfall variability and gauge representativeness on satellite rainfall accuracy in a small upland watershed in southern Ethiopia. Hydrological Sciences Journal, 2022, 67, 2490-2504.	2.6	7
52	Adjustment of the Z-R Relationship in Real-Time for Use in South Florida. , 2009, , .		6
53	Parametric Uncertainty Analysis of Predictive Models in Louisiana's 2012 Coastal Master Plan. Journal of Coastal Research, 2013, 67, 127-146.	0.3	6
54	Flash Floods Modelling for Wadi System: Challenges and Trends. Springer Geography, 2016, , 317-339.	0.4	6

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55	Development of a web-based hydrologic education tool using Google Earth resources. , 2012, , .		4
56	Differences in scale-dependent, climatological variation of mean areal precipitation based on satellite and radar-gauge observations. Journal of Hydrology, 2015, 522, 35-48.	5.4	4
57	Examining the Robustness of a Spatial Bootstrap Regional Approach for Radar-Based Hourly Precipitation Frequency Analysis. Remote Sensing, 2020, 12, 3767.	4.0	4
58	Satellite-Based Estimates of Groundwater Storage Changes at the Najd Aquifers in Oman. Springer Water, 2017, , 155-169.	0.3	4
59	Archival precipitation data set for the Mississippi River Basin: Evaluation. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	3
60	Joint distribution of multiplicative errors in radar and satellite QPEs and its use in estimating the conditional exceedance probability. Advances in Water Resources, 2013, 59, 133-145.	3.8	3
61	Multidimensional Modeling of the Lower Mississippi River. , 2006, , 52.		2
62	Virtual hydrology observatory: an immersive visualization of hydrology modeling. , 2009, , .		2
63	Unlocking the Educational Value of Large-Scale, Coastal-Ecosystem Restoration Projects: Development of Student-Centered, Multidisciplinary Learning Modules. Journal of Coastal Research, 2018, 34, 738.	0.3	2
64	Accounting for Inter-Annual and Seasonal Variability in Assessment of Water Supply Stress: Perspectives from a humid region in the USA. Water Resources Management, 2020, 34, 2517-2534.	3.9	2
65	Sharing Experiences in Designing Professional Learning to Support Hydrology and Water Resources Instructors to Create High-Quality Curricular Materials. Frontiers in Education, 0, 7, .	2.1	2
66	Effect of Radar-Rainfall Errors on Rainfall-Runoff Modeling. , 2007, , 1.		1
67	Single-pass 3D lens rendering and spatiotemporal “Time Warp” example. , 2010, , .		1
68	Single-Pass Composable 3D Lens Rendering and Spatiotemporal 3D Lenses. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 1259-1272.	4.4	1
69	Stimulating Active Learning in Hydrology Using Research-Driven, Web-based Learning Modules. , 2015, , 26.1400.1.		0
70	Analyzing Rainfall Uncertainty on Salinity Forecasting Within the Barataria Bay Estuary. , 2007, , .		0
71	On the Use of Rainfall Remote Sensing Information in Hydrologic Modeling: Data Accuracy Assessment and Potential Improvements. , 2008, , .		0
72	Adaptable web modules to stimulate active learning in engineering hydrology using data and model simulations. , 2014, , .		0

#	Article	IF	Citations
73	New Online Tool Teaches Students About the Energy-Water Nexus. Eos, 2017, , .	0.1	0