Ijaz Hussain

List of Publications by Year
in descending order

687363

610901

79	866	13	24
papers	citations	h-index	g-index

81	81	81	782
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Genetic Algorithm for Traveling Salesman Problem with Modified Cycle Crossover Operator. Computational Intelligence and Neuroscience, 2017, 2017, 1-7.	1.7	95
2	Forecasting Drought Using Multilayer Perceptron Artificial Neural Network Model. Advances in Meteorology, 2017, 2017, 1-9.	1.6	74
3	A Novel Multi-Scalar Drought Index for Monitoring Drought: the Standardized Precipitation Temperature Index. Water Resources Management, 2017, 31, 4957-4969.	3.9	57
4	Effective removal of metal ions from aquous solution by silver and zinc nanoparticles functionalized cellulose: Isotherm, kinetics and statistical supposition of process. Environmental Nanotechnology, Monitoring and Management, 2018, 9, 1-11.	2.9	50
5	Gender based survival prediction models for heart failure patients: A case study in Pakistan. PLoS ONE, 2019, 14, e0210602.	2.5	34
6	Spatio-temporal interpolation of precipitation during monsoon periods in Pakistan. Advances in Water Resources, 2010, 33, 880-886.	3.8	33
7	Distribution of Total Dissolved Solids in Drinking Water by Means of Bayesian Kriging and Gaussian Spatial Predictive Process. Water Quality, Exposure, and Health, 2014, 6, 177-185.	1.5	24
8	A framework to identify homogeneous drought characterization regions. Theoretical and Applied Climatology, 2019, 137, 3161-3172.	2.8	21
9	Reservoir Inflow Prediction by Ensembling Wavelet and Bootstrap Techniques to Multiple Linear Regression Model. Water Resources Management, 2019, 33, 5121-5136.	3.9	20
10	Robust Adaptive Lasso method for parameter's estimation and variable selection in high-dimensional sparse models. PLoS ONE, 2017, 12, e0183518.	2.5	17
11	A Probabilistic Weighted Joint Aggregative Drought Index (PWJADI) criterion for drought monitoring systems. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 71, 1588584.	1.7	16
12	A novel spatially weighted accumulative procedure for regional drought monitoring. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 72, 1838194.	1.7	16
13	Bayesian network based procedure for regional drought monitoring: The Seasonally Combinative Regional Drought Indicator. Journal of Environmental Management, 2020, 276, 111296.	7.8	16
14	Classification of Drinking Water Quality Index and Identification of Significant Factors. Water Resources Management, 2016, 30, 4233-4246.	3.9	14
15	Regional Frequency Analysis of Extremes Precipitation Using L-Moments and Partial L-Moments. Advances in Meteorology, 2017, 2017, 1-20.	1.6	14
16	Development of Multidecomposition Hybrid Model for Hydrological Time Series Analysis. Complexity, 2019, 2019, 1-14.	1.6	13
17	Modeling drought duration and severity using two-dimensional copula. Journal of Atmospheric and Solar-Terrestrial Physics, 2021, 214, 105530.	1.6	13
18	Selection of appropriate time scale with Boruta algorithm for regional drought monitoring using multi-scaler drought index. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 71, 1604057.	1.7	12

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19	A seasonally blended and regionally integrated drought index using <scp>Bayesian</scp> network theory. Meteorological Applications, 2021, 28, e1992.	2.1	12
20	Spatial Distribution of Sulfate Concentration in Groundwater of South-Punjab, Pakistan. Water Quality, Exposure, and Health, 2015, 7, 503-513.	1.5	10
21	A novel framework for regional pattern recognition of drought intensities. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	10
22	An improved framework to predict river flow time series data. PeerJ, 2019, 7, e7183.	2.0	10
23	Homogeneous climate regions in Pakistan. International Journal of Global Warming, 2011, 3, 55.	0.5	9
24	Multi-objective Compromise Allocation in Multivariate Stratified Sampling Using Extended Lexicographic Goal Programming with Gamma Cost Function. Mathematical Modelling and Algorithms, 2015, 14, 255-265.	0.5	9
25	Comparison of Two New Robust Parameter Estimation Methods for the Power Function Distribution. PLoS ONE, 2016, 11, e0160692.	2.5	9
26	Prediction of Drought Severity Using Model-Based Clustering. Mathematical Problems in Engineering, 2021, 2021, 1-10.	1.1	9
27	A new propagation-based framework to enhance competency in regional drought monitoring. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 73, 1975404.	1.7	9
28	Prediction for Various Drought Classes Using Spatiotemporal Categorical Sequences. Complexity, 2021, 2021, 1-11.	1.6	9
29	Logistic Regression Analysis for Spatial Patterns of Drought Persistence. Complexity, 2021, 2021, 1-13.	1.6	9
30	Personality is associated with dominance in a social feeding context in the great tit. Behaviour, 2019, 156, 1419-1434.	0.8	8
31	A Novel Framework for Selecting Informative Meteorological Stations Using Monte Carlo Feature Selection (MCFS) Algorithm. Advances in Meteorology, 2020, 2020, 1-13.	1.6	8
32	Reduction of Errors in Hydrological Drought Monitoring â€" A Novel Statistical Framework for Spatio-Temporal Assessment of Drought. Water Resources Management, 2021, 35, 4363-4380.	3.9	8
33	Hierarchical Bayesian space-time interpolation versus spatio-temporal BME approach. Advances in Geosciences, 0, 25, 97-102.	12.0	8
34	A new framework to substantiate the prevalence of drought intensities. Theoretical and Applied Climatology, 2022, 147, 1079-1090.	2.8	8
35	Assessing the Probability of Drought Severity in a Homogeneous Region. Complexity, 2022, 2022, 1-8.	1.6	8
36	Spatiotemporal analysis of meteorological drought variability in a homogeneous region using standardized drought indices. Geomatics, Natural Hazards and Risk, 2022, 13, 1457-1481.	4.3	8

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37	A new approach to choose acceptance cutoff for approximate Bayesian computation. Journal of Applied Statistics, 2013, 40, 862-869.	1.3	7
38	Stress response and toxicity studies on zebrafish exposed to endosulfan and imidacloprid present in water. Journal of Water Supply: Research and Technology - AQUA, 2019, 68, 718-730.	1.4	7
39	Characterization of regional hydrological drought using improved precipitation records under multi-auxiliary information. Theoretical and Applied Climatology, 2020, 140, 25-36.	2.8	7
40	Propagation of the Multi-Scalar Aggregative Standardized Precipitation Temperature Index and its Application. Water Resources Management, 2020, 34, 699-714.	3.9	7
41	Analysis of agricultural and hydrological drought periods by using non-homogeneous Poisson models: Linear intensity function. Journal of Atmospheric and Solar-Terrestrial Physics, 2020, 198, 105190.	1.6	7
42	Improving the prediction accuracy of river inflow using two data pre-processing techniques coupled with data-driven model. PeerJ, 2019, 7, e8043.	2.0	7
43	A new spatiotemporal two-stage standardized weighted procedure for regional drought analysis. PeerJ, 2022, 10, e13249.	2.0	7
44	Characterization of Meteorological Drought Using Monte Carlo Feature Selection and Steady-State Probabilities. Complexity, 2022, 2022, 1-19.	1.6	7
45	A novel generalized combinative procedure for Multi-Scalar standardized drought Indices-The long average weighted joint aggregative criterion. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 72, 1736248.	1.7	6
46	Identification of homogeneous rainfall regions in New South Wales, Australia. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 73, 1907979.	1.7	6
47	Prevalence and diagnostic of head and neck cancer in Pakistan. Pakistan Journal of Pharmaceutical Sciences, 2016, 29, 1839-1846.	0.2	6
48	A new comprehensive approach for regional drought monitoring. PeerJ, 2022, 10, e13377.	2.0	6
49	An ensemble procedure for pattern recognition of regional drought. International Journal of Climatology, 2020, 40, 94-114.	3.5	5
50	Measuring and restructuring the risk in forecasting drought classes: an application of weighted Markov chain based model for standardised precipitation evapotranspiration index (SPEI) at one-month time scale. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 72, 1840209.	1.7	5
51	Statistical analysis of modified Hargreaves equation for precise estimation of reference evapotranspiration. Tellus, Series A: Dynamic Meteorology and Oceanography, 2021, 73, 1-12.	1.7	5
52	Proportional odds model for identifying spatial inter-seasonal propagation of meteorological drought. Geomatics, Natural Hazards and Risk, 2022, 13, 1614-1639.	4.3	5
53	Spatial Interpolation of Sulfate Concentration in Groundwater Including Covariates Using Bayesian Hierarchical Models. Water Quality, Exposure, and Health, 2015, 7, 339-345.	1.5	4
54	Trade-off between cost and variance for a multi-objective compromise allocation in stratified random sampling. Communications in Statistics - Theory and Methods, 2017, 46, 2655-2666.	1.0	4

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55	A New Weighting Scheme in Weighted Markov Model for Predicting the Probability of Drought Episodes. Advances in Meteorology, 2018, 2018, 1-10.	1.6	4
56	Robust regularization for high-dimensional Cox's regression model using weighted likelihood criterion. Chemometrics and Intelligent Laboratory Systems, 2021, 213, 104285.	3.5	4
57	Multivariate Multi-Objective Allocation in Stratified Random Sampling: A Game Theoretic Approach. PLoS ONE, 2016, 11, e0167705.	2.5	4
58	Role of Livestock in Food Security: An Ascertainment from Punjab Pakistan. International Journal of Academic Research in Business and Social Sciences, 2014, 4, .	0.1	4
59	Evaluation of wet and dry event's trend and instability based on the meteorological drought index. PeerJ, 2020, 8, e9729.	2.0	4
60	Dependence structure analysis of multisite river inflow data using vine copula-CEEMDAN based hybrid model. PeerJ, 2020, 8, e10285.	2.0	4
61	Spatial Prediction and Optimized Sampling Design for Sodium Concentration in Groundwater. PLoS ONE, 2016, 11, e0161810.	2.5	3
62	An experimental and algorithm-based study of the spectral features of breast cancer patients by a photodiagnosis approach. Photodiagnosis and Photodynamic Therapy, 2020, 31, 101851.	2.6	3
63	On the more generalized non-parametric framework for the propagation of uncertainty in drought monitoring. Meteorological Applications, 2020, 27, e1914.	2.1	3
64	Forecasting and modeling of atmospheric methane concentration. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	3
65	Use of non-homogeneous Poisson process for the analysis of new cases, deaths, and recoveries of COVID-19 patients: A case study of Kuwait. Journal of King Saud University - Science, 2021, 33, 101614.	3.5	3
66	Modeling and forecasting of principal minerals production. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	2
67	Development of Hybrid Methods for Prediction of Principal Mineral Resources. Mathematical Problems in Engineering, 2021, 2021, 1-17.	1.1	2
68	Monthly drought prediction based on ensemble models. PeerJ, 2020, 8, e9853.	2.0	2
69	Spatial sampling design based on convex design ideas and using external drift variables for a rainfall monitoring network in Pakistan. Statistical Methodology, 2012, 9, 195-210.	0.5	1
70	Assessment of spatial models for interpolation of elevation in Pakistan. International Journal of Global Warming, 2015, 7, 409.	0.5	1
71	Choosing summary statistics by least angle regression for approximate Bayesian computation. Journal of Applied Statistics, 2016, 43, 2191-2202.	1.3	1
72	Agricultural drought periods analysis by using nonhomogeneous poisson models and regionalization of appropriate model parameters. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 73, 1948241.	1.7	1

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73	Strauss point modeling for seismic activity: a case study of earthquakes. Modeling Earth Systems and Environment, 0, , 1.	3.4	1
74	The Analysis of the Incidence Rate of the COVID-19 Pandemic Based on Segmented Regression for Kuwait and Saudi Arabia. Mathematical Problems in Engineering, 2021, 2021, 1-11.	1.1	1
75	Nonparametric trend analysis of reference evapotranspiration for Khyber Pakhtunkhwa, Pakistan. International Journal of Global Warming, 2018, 14, 313.	0.5	1
76	Minimum Cost Multiobjective Programming Model for Target Efficiency in Sample Selection. Scientific Programming, 2019, 2019, 1-9.	0.7	0
77	Reply to Comment on &quot;Hierarchical Bayesian space-time interpolation versus spatio-temporal BME approach&quot; by Kolovos (2009). Advances in Geosciences, 0, 25, 181-181.	12.0	0
78	Improvement towards Prediction Accuracy of Principle Mineral Resources Using Threshold. Mathematical Problems in Engineering, 2022, 2022, 1-18.	1.1	0
79	A Proposed Comparative Algorithm for Regional Crop Yield Assessment: An Application of Characteristic Objects Method. Mathematical Problems in Engineering, 2022, 2022, 1-11.	1.1	0