

Muhammad Abrar Faiz

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7480549/publications.pdf>

Version: 2024-02-01

53
papers

1,004
citations

430874

18
h-index

477307

29
g-index

54
all docs

54
docs citations

54
times ranked

917
citing authors

#	ARTICLE	IF	CITATIONS
1	A resilience evaluation method for a combined regional agricultural water and soil resource system based on Weighted Mahalanobis distance and a Gray-TOPSIS model. <i>Journal of Cleaner Production</i> , 2019, 229, 667-679.	9.3	93
2	Random forest regression evaluation model of regional flood disaster resilience based on the whale optimization algorithm. <i>Journal of Cleaner Production</i> , 2020, 250, 119468.	9.3	75
3	ELM evaluation model of regional groundwater quality based on the crow search algorithm. <i>Ecological Indicators</i> , 2017, 81, 302-314.	6.3	58
4	How accurate are the performances of gridded precipitation data products over Northeast China?. <i>Atmospheric Research</i> , 2018, 211, 12-20.	4.1	42
5	Identification and application of the most suitable entropy model for precipitation complexity measurement. <i>Atmospheric Research</i> , 2019, 221, 88-97.	4.1	41
6	Construction and application of a refined index for measuring the regional matching characteristics between water and land resources. <i>Ecological Indicators</i> , 2018, 91, 203-211.	6.3	36
7	Projection Pursuit Evaluation Model of Regional Surface Water Environment Based on Improved Chicken Swarm Optimization Algorithm. <i>Water Resources Management</i> , 2018, 32, 1325-1342.	3.9	36
8	Spatiotemporal variation analysis of regional flood disaster resilience capability using an improved projection pursuit model based on the wind-driven optimization algorithm. <i>Journal of Cleaner Production</i> , 2019, 241, 118406.	9.3	34
9	Assessment of dryness conditions according to transitional ecosystem patterns in an extremely cold region of China. <i>Journal of Cleaner Production</i> , 2020, 255, 120348.	9.3	34
10	Projected Changes of Future Extreme Drought Events under Numerous Drought Indices in the Heilongjiang Province of China. <i>Water Resources Management</i> , 2017, 31, 3921-3937.	3.9	30
11	Application of Particle Swarm Optimization and Extreme Learning Machine Forecasting Models for Regional Groundwater Depth Using Nonlinear Prediction Models as Preprocessor. <i>Journal of Hydrologic Engineering - ASCE</i> , 2018, 23, .	1.9	30
12	Comparative Assessment of Reference Evapotranspiration Estimation Using Conventional Method and Machine Learning Algorithms in Four Climatic Regions. <i>Pure and Applied Geophysics</i> , 2020, 177, 4479-4508.	1.9	30
13	Performance evaluation of hydrological models using ensemble of General Circulation Models in the northeastern China. <i>Journal of Hydrology</i> , 2018, 565, 599-613.	5.4	29
14	Detecting the persistence of drying trends under changing climate conditions using four meteorological drought indices. <i>Meteorological Applications</i> , 2018, 25, 184-194.	2.1	28
15	Recent Climate Trends and Drought Behavioral Assessment Based on Precipitation and Temperature Data Series in the Songhua River Basin of China. <i>Water Resources Management</i> , 2016, 30, 4839-4859.	3.9	26
16	Projection pursuit evaluation model of a regional surface water environment based on an Ameliorative Moth-Flame Optimization algorithm. <i>Ecological Indicators</i> , 2019, 107, 105674.	6.3	26
17	Spatial-temporal characteristics analysis of water resource system resilience in irrigation areas based on a support vector machine model optimized by the modified gray wolf algorithm. <i>Journal of Hydrology</i> , 2021, 597, 125758.	5.4	26
18	Precipitation Complexity Measurement Using Multifractal Spectra Empirical Mode Decomposition Detrended Fluctuation Analysis. <i>Water Resources Management</i> , 2016, 30, 505-522.	3.9	23

#	ARTICLE	IF	CITATIONS
19	A composite drought index developed for detecting large-scale drought characteristics. <i>Journal of Hydrology</i> , 2022, 605, 127308.	5.4	21
20	Drought indices: aggregation is necessary or is it only the researcher's choice?. <i>Water Science and Technology: Water Supply</i> , 2021, 21, 3987-4002.	2.1	20
21	Extreme precipitation and drought monitoring in northeastern China using general circulation models and pan evaporation-based drought indices. <i>Climate Research</i> , 2018, 74, 231-250.	1.1	17
22	Two-Stage Multi-Water Sources Allocation Model in Regional Water Resources Management under Uncertainty. <i>Water Resources Management</i> , 2017, 31, 3607-3625.	3.9	16
23	Stream flow variability and drought severity in the Songhua River Basin, Northeast China. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 1225-1242.	4.0	15
24	Spatial variability and possible cause analysis of regional precipitation complexity based on optimized sample entropy. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 3384-3398.	2.7	15
25	Assessment of precipitation variability and uncertainty of stream flow in the Hindu Kush Himalayan and Karakoram River basins of Pakistan. <i>Meteorology and Atmospheric Physics</i> , 2019, 131, 127-136.	2.0	14
26	Optimization of irrigation water use efficiency evaluation indicators based on DPSIR-ISD model. <i>Water Science and Technology: Water Supply</i> , 2020, 20, 83-94.	2.1	14
27	Precipitation variability assessment of northeast China: Songhua River basin. <i>Journal of Earth System Science</i> , 2016, 125, 957-968.	1.3	13
28	Application of non-conventional soft computing approaches for estimation of reference evapotranspiration in various climatic regions. <i>Theoretical and Applied Climatology</i> , 2020, 139, 1459-1477.	2.8	13
29	Measurement and analysis of regional agricultural water and soil resource composite system harmony with an improved random forest model based on a dragonfly algorithm. <i>Journal of Cleaner Production</i> , 2021, 305, 127217.	9.3	13
30	Connotation analysis and evaluation index system construction of regional agricultural soil and water resource composite system harmony. <i>Journal of Cleaner Production</i> , 2020, 263, 121438.	9.3	12
31	Complexity and trends analysis of hydrometeorological time series for a river streamflow: A case study of <sc>S</sc>onghua <sc>R</sc>iver <sc>B</sc>asin, <sc>C</sc>hina. <i>River Research and Applications</i> , 2018, 34, 101-111.	1.7	11
32	Complexity measurement of precipitation series in urban areas based on particle swarm optimized multiscale entropy. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	1.3	9
33	Estimation of the River Flow Synchronicity in the Upper Indus River Basin Using Copula Functions. <i>Sustainability</i> , 2020, 12, 5122.	3.2	9
34	Application of an improved multifractal detrended fluctuation analysis approach for estimation of the complexity of daily precipitation. <i>International Journal of Climatology</i> , 2021, 41, 4653-4671.	3.5	9
35	Multifractal Detrended Fluctuation Analysis of Regional Precipitation Sequences Based on the CEEMDAN-WPT. <i>Pure and Applied Geophysics</i> , 2018, 175, 3069-3084.	1.9	7
36	A novel system of indicators for evaluating system resilience of regional agricultural water resources. <i>Water Science and Technology: Water Supply</i> , 2018, 18, 1-13.	2.1	7

#	ARTICLE	IF	CITATIONS
37	Assessment of characteristics and distinguished hydrological periods of a river regime. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	2.7	7
38	Identification of resilience characteristics of a regional agricultural water resources system based on index optimization and improved support vector machine. <i>Water Science and Technology: Water Supply</i> , 2019, 19, 1899-1910.	2.1	7
39	Comprehensive evaluation of 0.25 \hat{A} precipitation datasets combined with MOD10A2 snow cover data in the ice-dominated river basins of Pakistan. <i>Atmospheric Research</i> , 2020, 231, 104653.	4.1	7
40	Development of an integrated weighted drought index and its application for agricultural drought monitoring. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	1.3	7
41	Complexity measurement of regional groundwater resources system using improved Lempel-Ziv complexity algorithm. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	1.3	6
42	Novel method for measuring regional precipitation complexity characteristics based on multiscale permutation entropy combined with CMFO-PPTTE model. <i>Journal of Hydrology</i> , 2021, 592, 125801.	5.4	6
43	Multi-index drought characteristics in Songhua River basin, Northeast China. <i>Climate Research</i> , 2019, 78, 1-19.	1.1	6
44	Wavelet analysis of the complex precipitation series in the Northern Jiansanjiang Administration of the Heilongjiang land reclamation, China. <i>Journal of Water and Climate Change</i> , 2016, 7, 796-809.	2.9	5
45	Rainfall Extremes: a Novel Modeling Approach for Regionalization. <i>Water Resources Management</i> , 2017, 31, 1975-1994.	3.9	5
46	Identification and inter-comparison of appropriate long-term precipitation datasets using decision tree model and statistical matrix over China. <i>International Journal of Climatology</i> , 2021, 41, 5003-5021.	3.5	5
47	Measurement and analysis of the resilience characteristics for a regional agricultural soil-water resource composite system. <i>Journal of Environmental Management</i> , 2022, 318, 115622.	7.8	4
48	Effects of land use and climate variability on the main stream of the Songhua River Basin, Northeast China. <i>Hydrological Sciences Journal</i> , 2020, 65, 1752-1765.	2.6	2
49	Assessment of the response of climate variability and price anomalies to grain yield and land use in Northeast China. <i>Environmental Science and Pollution Research</i> , 2021, 28, 36559-36572.	5.3	2
50	Indicator system optimization model for evaluating resilience of regional agricultural soil-water resource composite system. <i>Water Science and Technology: Water Supply</i> , 2021, 21, 3251-3266.	2.1	2
51	Utilization of Markov chain Monte Carlo approach for calibration and uncertainty analysis of environmental models. , 2018, , .		1
52	Analysis of the Appropriate Development Scale of Regional Paddy Field Under the Restriction of Water Resources. <i>Agricultural Research</i> , 2016, 5, 324-333.	1.7	0
53	Analysis on the influencing factors of effective utilization coefficient of irrigation water in irrigation districts based on Horton fractal theory. <i>Water Science and Technology: Water Supply</i> , 2019, 19, 1695-1703.	2.1	0