Pengfei Shi

List of Publications by Year
in descending order

52 papers	934 citations	516710 16 h-index	477307 29 g-index
52 all docs	52 docs citations	52 times ranked	972 citing authors

#	Article	IF	Citations
1	A Dynamic Bioinspired Neural Network Based Real-Time Path Planning Method for Autonomous Underwater Vehicles. Computational Intelligence and Neuroscience, 2017, 2017, 1-16.	1.7	165
2	Analysis of multi-dimensional hydrological alterations under climate change for four major river basins in different climate zones. Climatic Change, 2017, 141, 483-498.	3.6	81
3	Development of a new IHA method for impact assessment of climate change on flow regime. Global and Planetary Change, 2017, 156, 68-79.	3.5	71
4	An improved approach for water quality evaluation: TOPSIS-based informative weighting and ranking (TIWR) approach. Ecological Indicators, 2018, 89, 356-364.	6.3	54
5	Thermal conversion of polypyrrole nanotubes to nitrogen-doped carbon nanotubes for efficient water desalination using membrane capacitive deionization. Separation and Purification Technology, 2020, 235, 116196.	7.9	45
6	R-MSFM: Recurrent Multi-Scale Feature Modulation for Monocular Depth Estimating. , 2021, , .		45
7	A detection and classification approach for underwater dam cracks. Structural Health Monitoring, 2016, 15, 541-554.	7.5	37
8	Impacts of climate change on flow regime and sequential threats to riverine ecosystem in the source region of the Yellow River. Environmental Earth Sciences, 2018, 77, 1.	2.7	34
9	How do the multiple large-scale climate oscillations trigger extreme precipitation?. Global and Planetary Change, 2017, 157, 48-58.	3.5	32
10	Understanding the discharge regime of a glacierized alpine catchment in the Tianshan Mountains using an improved HBV-D hydrological model. Global and Planetary Change, 2019, 172, 211-222.	3.5	31
11	A novel automatic dam crack detection algorithm based on local-global clustering. Multimedia Tools and Applications, 2018, 77, 26581-26599.	3.9	28
12	Spatio-temporal changes of precipitation and temperature over the Pearl River basin based on CMIP5 multi-model ensemble. Stochastic Environmental Research and Risk Assessment, 2017, 31, 1077-1089.	4.0	26
13	A probabilistic method for streamflow projection and associated uncertainty analysis in a data sparse alpine region. Global and Planetary Change, 2018, 165, 100-113.	3.5	26
14	A novel underwater dam crack detection and classification approach based on sonar images. PLoS ONE, 2017, 12, e0179627.	2.5	24
15	Large-scale climate patterns and precipitation in an arid endorheic region: linkage and underlying mechanism. Environmental Research Letters, 2016, 11, 044006.	5.2	20
16	An Improved Real-Time Path Planning Method Based on Dragonfly Algorithm for Heterogeneous Multi-Robot System. IEEE Access, 2020, 8, 140558-140568.	4.2	19
17	An Improved DSA-Based Approach for Multi-AUV Cooperative Search. Computational Intelligence and Neuroscience, 2018, 2018, 1-13.	1.7	17
18	Underwater Biological Detection Algorithm Based on Improved Faster-RCNN. Water (Switzerland), 2021, 13, 2420.	2.7	15

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19	Evaluating the area and position accuracy of surface water paths obtained by flow direction algorithms. Journal of Hydrology, 2020, 583, 124619.	5.4	14
20	A revised range of variability approach considering the morphological alteration of hydrological indicators. Stochastic Environmental Research and Risk Assessment, 2021, 35, 1783-1803.	4.0	12
21	An Improved Attention-Based Integrated Deep Neural Network for PM2.5 Concentration Prediction. Applied Sciences (Switzerland), 2021, 11, 4001.	2.5	12
22	The response of runoff components and glacier mass balance to climate change for a glaciated high-mountainous catchment in the Tianshan Mountains. Natural Hazards, 2020, 104, 1239-1258.	3.4	11
23	Prospective scenarios of the saltwater intrusion in an estuary under climate change context using Bayesian neural networks. Stochastic Environmental Research and Risk Assessment, 2017, 31, 981-991.	4.0	10
24	Urban water consumption in a rapidly developing flagship megacity of South China: prospective scenarios and implications. Stochastic Environmental Research and Risk Assessment, 2013, 27, 1359-1370.	4.0	9
25	A Thermal Infrared and Visible Images Fusion Based Approach for Multitarget Detection under Complex Environment. Mathematical Problems in Engineering, 2015, 2015, 1-11.	1.1	9
26	Application of Bee Evolutionary Genetic Algorithm to Maximum Likelihood Direction-of-Arrival Estimation. Mathematical Problems in Engineering, 2019, 2019, 1-11.	1.1	7
27	Remote Sensing Image Object Detection Based on Angle Classification. IEEE Access, 2021, 9, 118696-118707.	4.2	7
28	A novel sonar target detection and classification algorithm. Multimedia Tools and Applications, 2022, 81, 10091-10106.	3.9	7
29	Probabilistic modeling and uncertainty estimation of urban water consumption under an incompletely informational circumstance. Stochastic Environmental Research and Risk Assessment, 2016, 30, 725-736.	4.0	6
30	Rainfallâ€“Runoff Processes and Modelling in Regions Characterized by Deficiency in Soil Water Storage. Water (Switzerland), 2019, 11, 1858.	2.7	6
31	Assessing the Precision of Total Contributing Area (TCA) Estimated by Flow Direction Algorithms Based on the Analytical Solution of Theoretical TCA on Synthetic Surfaces. Water Resources Research, 2021, 57, e2020WR028546.	4.2	6
32	An Improved Transfer Learning Model for Cyanobacterial Bloom Concentration Prediction. Water (Switzerland), 2022, 14, 1300.	2.7	6
33	An Improved Kernelized Correlation Filter Based Visual Tracking Method. Mathematical Problems in Engineering, 2018, 2018, 1-12.	1.1	5
34	An Improved Hybrid Transfer Learning-Based Deep Learning Model for PM2.5 Concentration Prediction. Applied Sciences (Switzerland), 2022, 12, 3597.	2.5	5
35	RAFM: Recurrent Atrous Feature Modulation for Accurate Monocular Depth Estimating. IEEE Signal Processing Letters, 2022, 29, 1609-1613.	3.6	5
36	A Statistical Vertically Mixed Runoff Model for Regions Featured by Complex Runoff Generation Process. Water (Switzerland), 2020, 12, 2324.	2.7	4

#	Article	IF	Citations
37	Joint Processing of Pilot and Data for Massive MIMO Systems in Ricean Fading Channels. IEEE Access, 2019, 7, 83615-83627.	4.2	3
38	A New Uncertainty Measure for Assessing the Uncertainty Existing in Hydrological Simulation. Water (Switzerland), 2019, 11, 812.	2.7	3
39	New Methods for the Assessment of Flow Regime Alteration under Climate Change and Human Disturbance. Water (Switzerland), 2019, 11, 2435.	2.7	3
40	A novel underwater sonar image enhancement algorithm based on approximation spaces of random sets. Multimedia Tools and Applications, 2022, 81, 4569-4584.	3.9	3
41	Spectral efficiency analysis for massive MIMO systems in Ricean fading channels. IET Communications, 2019, 13, 3193-3200.	2.2	2
42	An Automatic Location and Recognition Method for Bank Card Number. , 2019, , .		2
43	Spectral efficiency analysis of multiâ€cell multiâ€user massive MIMO over channel aging. IET Communications, 2020, 14, 811-817.	2.2	2
44	Underwater image enhancement algorithm combining color correction and multi-scale fusion. , 2021, , .		2
45	Defining the range of ecological shelter zones in the shore zone of Three Gorges Reservoir, China. Stochastic Environmental Research and Risk Assessment, 2014, 28, 1973-1984.	4.0	1
46	Performance analysis for joint processing of pilot and data symbols with channel aging. Electronics Letters, 2019, 55, 1157-1160.	1.0	1
47	An improved D8â€LTD for the extraction of total contributing area (TCA) by adopting the strategies of path independency and local dispersion. Water Resources Research, 0, , .	4.2	1
48	A multi-sensor image fusion algorithm based on multi-scale feature analysis. , 2014, , .		0
49	Real-time localization of mobile targets using abnormal wireless signals. , 2017, , .		0
50	Uplink Spectral Efficiency Analysis in Vehicle-to-Infrastructure Massive MIMO systems. , 2019, , .		0
51	Study on Water Absorptionâ€“Dehydration Characteristics for SAP Composite Soil for Rainwater Harvesting. Water (Switzerland), 2020, 12, 2380.	2.7	0
52	Understanding the impacts induced by cut-off thresholds and likelihood measures on confidence interval when applying GLUE approach. Stochastic Environmental Research and Risk Assessment, 2022, 36, 1215-1241.	4.0	0