Ali Ercan

List of Publications by Year
in descending order

73 papers	664 citations	623574 14 h-index	713332 21 g-index
89 all docs	89 docs citations	89 times ranked	565 citing authors

#	Article	IF	Citations
1	Future climate change impact assessment of watershed scale hydrologic processes in Peninsular Malaysia by a regional climate model coupled with a physically-based hydrology modelo. Science of the Total Environment, 2017, 575, 12-22.	3.9	67
2	Assessment of 21st century drought conditions at Shasta Dam based on dynamically projected water supply conditions by a regional climate model coupled with a physically-based hydrology model. Science of the Total Environment, 2017, 586, 197-205.	3.9	35
3	Trend analysis of watershed-scale precipitation over Northern California by means of dynamically-downscaled CMIP5 future climate projections. Science of the Total Environment, 2017, 592, 12-24.	3.9	30
4	Unscreened Water-Diversion Pipes Pose an Entrainment Risk to the Threatened Green Sturgeon, Acipenser medirostris. PLoS ONE, 2014, 9, e86321.	1.1	26
5	Integrating global land-cover and soil datasets to update saturated hydraulic conductivity parameterization in hydrologic modeling. Science of the Total Environment, 2018, 631-632, 279-288.	3.9	22
6	The impact of climate change on sea level rise at Peninsular Malaysia and Sabah–Sarawak. Hydrological Processes, 2013, 27, 367-377.	1.1	21
7	Governing equations of transient soil water flow and soil water flux in multi-dimensional fractional anisotropic media and fractional time. Hydrology and Earth System Sciences, 2017, 21, 1547-1557.	1.9	21
8	Capabilities of deep learning models on learning physical relationships: Case of rainfall-runoff modeling with LSTM. Science of the Total Environment, 2022, 802, 149876.	3.9	21
9	Coupling hydroclimate-hydraulic-sedimentation models to estimate flood inundation and sediment transport during extreme flood events under a changing climate. Science of the Total Environment, 2020, 740, 140117.	3.9	20
10	Hourly-scale coastal sea level modeling in a changing climate using long short-term memory neural network. Science of the Total Environment, 2020, 720, 137613.	3.9	20
11	Prediction of Bank Erosion in a Reach of the Sacramento River and its Mitigation with Groynes. Water Resources Management, 2009, 23, 3121-3147.	1.9	19
12	Scaling and self-similarity in one-dimensional unsteady open channel flow. Hydrological Processes, 2014, 28, 2721-2737.	1.1	19
13	Assessing Juvenile Chinook Salmon Behavior and Entrainment Risk near Unscreened Water Diversions: Large Flume Simulations. Transactions of the American Fisheries Society, 2013, 142, 130-142.	0.6	18
14	Can behavioral fish-guidance devices protect juvenile Chinook salmon (<i>Oncorhynchus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (Fisheries and Aquatic Sciences, 2014, 71, 1209-1219.	0.7	15
15	Scaling and Self-Similarity of One-Dimensional Unsteady Suspended Sediment Transport with Emphasis on Unscaled Sediment Material Properties. Journal of Hydraulic Engineering, 2015, 141, .	0.7	15
16	Assessment of the effects of multiple extreme floods on flow and transport processes under competing flood protection and environmental management strategies. Science of the Total Environment, 2017, 607-608, 613-622.	3.9	15
17	Ensemble Modeling of Hydrologic and Hydraulic Processes at One Shot: Application to Kinematic Open-Channel Flow under Uncertain Channel Properties by the Stochastic Method of Characteristics. Journal of Hydrologic Engineering - ASCE, 2012, 17, 168-181.	0.8	14
18	Fish-protection devices at unscreened water diversions can reduce entrainment: evidence from behavioural laboratory investigations. , 2015, 3, cov040.		13

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19	Fractal scaling analysis of groundwater dynamics in confined aquifers. Earth System Dynamics, 2017, 8, 931-949.	2.7	13
20	Time–space fractional governing equations of transient groundwater flow in confined aquifers: Numerical investigation. Hydrological Processes, 2018, 32, 1406-1419.	1.1	13
21	Analysis of future climate change impacts on snow distribution over mountainous watersheds in Northern California by means of a physically-based snow distribution model. Science of the Total Environment, 2018, 645, 1065-1082.	3.9	13
22	Impacts of climate change on snow accumulation and melting processes over mountainous regions in Northern California during the 21st century. Science of the Total Environment, 2019, 685, 104-115.	3.9	13
23	Fractional governing equations of transient groundwater flow in confined aquifers with multi-fractional dimensions in fractional time. Earth System Dynamics, 2017, 8, 921-929.	2.7	12
24	Scaling and self-similarity in two-dimensional hydrodynamics. Chaos, 2015, 25, 075404.	1.0	11
25	Current issues in and an emerging method for flood frequency analysis under changing climate. Hydrological Research Letters, 2017, 11, 1-5.	0.3	11
26	Impacts of Climate Change on the Hydro-Climate of Peninsular Malaysia. Water (Switzerland), 2019, 11, 1798.	1.2	11
27	Fractional Ensemble Average Governing Equations of Transport by Time-Space Nonstationary Stochastic Fractional Advective Velocity and Fractional Dispersion. II: Numerical Investigation. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	0.8	10
28	Fractional Ensemble Average Governing Equations of Transport by Time-Space Nonstationary Stochastic Fractional Advective Velocity and Fractional Dispersion. I: Theory. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	0.8	10
29	Ensemble Modeling of Hydrologic and Hydraulic Processes at One Shot: Application to Kinematic Open-Channel Flow under Uncertain Channel Properties and Uncertain Lateral Flow Conditions by the Stochastic Method of Characteristics. Journal of Hydrologic Engineering - ASCE, 2012, 17, 414-423.	0.8	9
30	Self-similarity in incompressible Navier-Stokes equations. Chaos, 2015, 25, 123126.	1.0	9
31	Efficacy of a sensory deterrent and pipe modifications in decreasing entrainment of juvenile green sturgeon (Acipenser medirostris) at unscreened water diversions. , 2014, 2, cou056-cou056.		8
32	Development of high-resolution 72 h precipitation and hillslope flood maps over a tropical transboundary region by physically based numerical atmospheric–hydrologic modeling. Journal of Water and Climate Change, 2020, 11, 387-406.	1.2	8
33	Modified Water Diversion Structures Can Behaviorally Deter Juvenile Chinook Salmon from Entrainment. Transactions of the American Fisheries Society, 2015, 144, 1070-1080.	0.6	7
34	Time–space fractional governing equations of one–dimensional unsteady open channel flow process: Numerical solution and exploration. Hydrological Processes, 2017, 31, 2961-2971.	1.1	7
35	Fractional Governing Equations of Diffusion Wave and Kinematic Wave Open-Channel Flow in Fractional Time-Space. I. Development of the Equations. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	0.8	6
36	Time-Space Fractional Governing Equations of Unsteady Open Channel Flow. Journal of Hydrologic Engineering - ASCE, 2017, 22, .	0.8	6

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37	Reconstruction and evaluation of changes in hydrologic conditions over a transboundary region by a regional climate model coupled with a physically-based hydrology model: Application to Thao river watershed. Science of the Total Environment, 2019, 668, 768-779.	3.9	6
38	Fractional Governing Equations of Diffusion Wave and Kinematic Wave Open-Channel Flow in Fractional Time-Space. II. Numerical Simulations. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	0.8	5
39	Scaling Relations and Self-Similarity of 3-Dimensional Reynolds-Averaged Navier-Stokes Equations. Scientific Reports, 2017, 7, 6416.	1.6	5
40	Evaluating the Applicability of a Two‐dimensional Flow Model of a Highly Heterogeneous Domain to Flow and Environmental Management. Journal of the American Water Resources Association, 2018, 54, 184-197.	1.0	5
41	One-dimensional solute transport in open channel flow from a stochastic systematic perspective. Stochastic Environmental Research and Risk Assessment, 2019, 33, 1403-1418.	1.9	5
42	Hybrid precipitation downscaling over coastal watersheds in Japan using WRF and CNN. Journal of Hydrology: Regional Studies, 2021, 37, 100921.	1.0	5
43	Trend analysis of watershed-scale annual and seasonal precipitation in Northern California based on dynamically downscaled future climate projections. Journal of Water and Climate Change, 2020, 11, 86-105.	1.2	4
44	Assessment of atmospheric conditions over the Hong Thai Binh river watershed by means of dynamically downscaled ERA-20C reanalysis data. Journal of Water and Climate Change, 2020, 11, 540-555.	1.2	4
45	Probabilistic solution to two-dimensional stochastic solute transport model by the Fokker-Planck equation approach. Journal of Hydrology, 2020, 580, 124250.	2.3	3
46	Self-similarity in fate and transport of contaminants in groundwater. Science of the Total Environment, 2020, 706, 135738.	3.9	3
47	Fractional governing equations of transient groundwater flow in unconfined aquifers with multi-fractional dimensions in fractional time. Earth System Dynamics, 2020, 11, 1-12.	2.7	3
48	Uncertainties in the prediction of flow in a long reach of the Sacramento River. Water and Environment Journal, 2009, 23, 272-285.	1.0	2
49	Numerical Evaluation of Fractional Vertical Soil Water Flow Equations. Water (Switzerland), 2021, 13, 511.	1.2	2
50	Space and Time Fractional Governing Equations of Unsteady Overland Flow. Journal of Hydrologic Engineering - ASCE, 2021, 26, .	0.8	2
51	Multi-time-scale input approaches for hourly-scale rainfall‐runoff modeling based on recurrent neural networks. Journal of Hydroinformatics, 0, , .	1.1	2
52	Sea Level Changes along the Peninsular Malaysia and Sabah and Sarawak Coastlines for the 21st Century. , 2011, , .		1
53	Two-Dimensional Unsteady Flow Modeling of Flood Inundation in a Leveed Basin. , 2015, , .		1
54	Investigation of the groundwater modelling component of the Integrated Water Flow Model (IWFM). Hydrological Sciences Journal, 2016, 61, 2834-2848.	1.2	1

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55	Hydraulics Near Unscreened Diversion Pipes in Open Channels: Large Flume Experiments. Journal of the American Water Resources Association, 2017, 53, 431-441.	1.0	1
56	Two-Dimensional Sediment Transport Modeling under Extreme Flood at Lower Cache Creek, California. , 2017, , .		1
57	Modeling One-Dimensional Nonreactive Solute Transport in Open Channel Flows Under Uncertain Flow and Solute Loading Conditions. Journal of Hydrologic Engineering - ASCE, 2020, 25, 04020035.	0.8	1
58	Assessment of 21st century drought conditions at Shasta Dam based on dynamically projected water supply conditions by a regional climate model coupled with a physically-based hydrology model. , 2017, 586, 197-197.		1
59	BÄ°R BOYUTLU TAÅžINIM SÃœREÃ‡LERÄ°NDE Ã–LÃ‡EKLEME ANALÄ°ZÄ° VE KENDÄ°NE BENZEÅžÄ°M. UludaÄŸ University Journal of the Faculty of Engineering, 2018, 23, 235-246.	0.2	1
60	Prediction of Flow and Bank Erosion in the Sacramento River. , 2006, , 1.		0
61	Hydraulic and Sediment Transport Modeling for Cache Creek Settling Basin, Woodland California. , 2010, , .		0
62	Ensemble Modeling of Kinematic Open Channel Flow under Uncertain Channel Properties. , 2012, , .		0
63	Scaling and Self-Similarity of One-Dimensional Suspended Sediment Transport Equations. , 2014, , .		0
64	Two-Dimensional Sediment Transport Modeling in Cache Creek Settling Basin, California. , 2015, , .		0
65	Historical Climatic and Hydrologic Modeling over a Watershed at Peninsular Malaysia. , 2015, , .		0
66	Investigations of Self-Similarity and Scale Invariance of One-Dimensional Unsteady Bedload Transport. , 2016, , .		0
67	Atmospheric Model Component of an Atmospheric-Hydrological Model-Based Real-Time Flood Forecasting System for the KÄ±zÄ±lÄ±rmak River Basin in Turkey. , 2016, , .		0
68	Hydrologic Model Component of an Atmospheric-Hydrologic Model-Based Real-Time Flood Forecasting System for the KÄ±zÄ±lÄ±rmak River Basin in Turkey. , 2016, , .		0
69	Fractional Random Walk and Fractional Differential Equation Models of Transport by Time-Space Nonstationary Stochastic Fractional Flow. , 2016, , .		0
70	Dynamically Downscaled Precipitation over Northern California Based on CMIP5 Future Climate Projections. , 2017, , .		0
71	Closure to â€œTime-Space Fractional Governing Equations of Unsteady Open Channel Flowâ€•by M. L. Kavvas and A. Ercan. Journal of Hydrologic Engineering - ASCE, 2017, 22, 07017012.	0.8	0
72	Assessment Study of 21st Century Drought Conditions at Shasta Dam Based on Dynamically Projected Water Supply and Water Demand. , 2017, , .		0

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73	Case Study II: Sea Level Change at Peninsular Malaysia and Sabah-Sarawak. SpringerBriefs in Statistics, 2013, , 39-48.	0.3	0