Zahra Kalantari

List of Publications by Year
in descending order

107 papers	4,501 citations	117625 34 h-index	114465 63 g-index
139 all docs	139 docs citations	139 times ranked	4976 citing authors

#	Article	IF	Citations
1	Development of a novel hybrid multi-boosting neural network model for spatial prediction of urban flood. Geocarto International, 2022, 37, 5716-5741.	3.5	16
2	Sustainable futures over the next decade are rooted in soil science. European Journal of Soil Science, 2022, 73, .	3.9	19
3	Links between food trade, climate change and food security in developed countries: A case study of Sweden. Ambio, 2022, 51, 943-954.	5.5	13
4	Soil degradation in the European Mediterranean region: Processes, status and consequences. Science of the Total Environment, 2022, 805, 150106.	8.0	168
5	Flood legislation and land policy framework of EU and nonâ€€EU countries in Southern Europe. Wiley Interdisciplinary Reviews: Water, 2022, 9, e15596.	6.5	6
6	Contribution of physical and anthropogenic factors to gully erosion initiation. Catena, 2022, 210, 105925.	5.0	27
7	Urbanisation-driven land degradation and socioeconomic challenges in peri-urban areas: Insights from Southern Europe. Ambio, 2022, 51, 1446-1458.	5.5	57
8	Selecting potential locations for groundwater recharge by means of remote sensing and GIS and weighting based on Boolean logic and analytic hierarchy process. Environmental Earth Sciences, 2022, 81, 1.	2.7	8
9	Ambio fit for the 2020s. Ambio, 2022, 51, 1091-1093.	5.5	0
10	First Mile/Last Mile Problems in Smart and Sustainable Cities: A Case Study in Stockholm County. Journal of Urban Technology, 2022, 29, 115-137.	4.7	7
11	Identifying barriers for nature-based solutions in flood risk management: An interdisciplinary overview using expert community approach. Journal of Environmental Management, 2022, 310, 114725.	7.8	41
12	Large-scale dynamic flood monitoring in an arid-zone floodplain using SAR data and hybrid machine-learning models. Journal of Hydrology, 2022, 611, 128001.	5.4	14
13	Distinction of driver contributions to wetland decline and their associated basin hydrology around Iran. Journal of Hydrology: Regional Studies, 2022, 42, 101126.	2.4	5
14	Liveable cities: Current environmental challenges and paths to urban sustainability. Journal of Environmental Management, 2021, 277, 111458.	7.8	12
15	The bio-based economy, 2030 Agenda, and strong sustainability â€" A regional-scale assessment of sustainability goal interactions. Journal of Cleaner Production, 2021, 283, 125174.	9.3	21
16	Soil Health in Urban Protected Areas and Pathways for Sustainable Development. , 2021, , 576-584.		0
17	Rainfall-runoff-erosion processes in urban areas. , 2021, , 481-498.		2
18	Predicting groundwater level fluctuations under climate change scenarios for Tasuj plain, Iran. Arabian Journal of Geoscience, 2021, 14, 1.	1.3	31

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19	Hydro-climatic changes of wetlandscapes across the world. Scientific Reports, 2021, 11, 2754.	3.3	10
20	Enlivening our cities: Towards urban sustainability and resilience. Ambio, 2021, 50, 1629-1633.	5.5	9
21	Hydrological Processes in Eucalypt and Pine Forested Headwater Catchments within Mediterranean Region. Water (Switzerland), 2021, 13, 1418.	2.7	2
22	Spatio-Temporal Assessment of Global Gridded Evapotranspiration Datasets across Iran. Remote Sensing, 2021, 13, 1816.	4.0	20
23	Mapping the Vulnerability of Arctic Wetlands to Global Warming. Earth's Future, 2021, 9, e2020EF001858.	6.3	19
24	Arctic wetland system dynamics under climate warming. Wiley Interdisciplinary Reviews: Water, 2021, 8, e1526.	6.5	19
25	A more complete accounting of greenhouse gas emissions and sequestration in urban landscapes. Anthropocene, 2021, 34, 100296.	3.3	10
26	Distinguishing active and legacy source contributions to stream water quality: Comparative quantification for chloride and metals. Hydrological Processes, 2021, 35, e14280.	2.6	6
27	Interconnected governance and social barriers impeding the restoration process of Lake Urmia. Journal of Hydrology, 2021, 598, 126489.	5.4	23
28	The role of soils in regulation and provision of blue and green water. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200175.	4.0	45
29	Application of the Adaptive Cycle and Panarchy in La Marjaleria Social-Ecological System: Reflections for Operability. Land, 2021, 10, 980.	2.9	2
30	Data‑Driven Worldwide Quantification of Large‑Scale Hydroclimatic Covariation Patterns and Comparison With Reanalysis and Earth System Modeling. Water Resources Research, 2021, 57, e2020WR029377.	4.2	8
31	Flood Mitigation in Mediterranean Coastal Regions: Problems, Solutions, and Stakeholder Involvement. Sustainability, 2021, 13, 10474.	3.2	16
32	How ecosystems services drive urban growth: Integrating nature-based solutions. Anthropocene, 2021, 35, 100297.	3.3	50
33	Contribution of Satellite-Based Precipitation in Hydrological Rainfall‑Runoff Modeling: Case Study of the Hammam Boughrara Region in Algeria. Earth Systems and Environment, 2021, 5, 873-881.	6.2	3
34	Urban flood modeling using deep-learning approaches in Seoul, South Korea. Journal of Hydrology, 2021, 601, 126684.	5.4	65
35	Current Wildland Fire Patterns and Challenges in Europe: A Synthesis of National Perspectives. Air, Soil and Water Research, 2021, 14, 117862212110281.	2.5	53
36	Healthy ecosystems for human and animal health: Science diplomacy for responsible development in the Arctic. Polar Record, 2021, 57, .	0.8	3

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37	Agro-ecological services delivered by legume cover crops grown in succession with grain corn crops in the Mediterranean region. Open Agriculture, 2021, 6, 609-626.	1.7	6
38	Linking climate and infectious disease trends in the Northern/Arctic Region. Scientific Reports, 2021, 11, 20678.	3.3	12
39	Two Comprehensive and Practical Methods for Simulating Pan Evaporation under Different Climatic Conditions in Iran. Water (Switzerland), 2021, 13, 2814.	2.7	8
40	Modeling Climate Sensitive Infectious Diseases in the Arctic. Springer Polar Sciences, 2021, , 93-111.	0.1	0
41	Nature-Based Solutions for Flood Mitigation and Resilience in Urban Areas. Handbook of Environmental Chemistry, 2021, , 59-78.	0.4	8
42	Using Landscape Connectivity to Identify Suitable Locations for Nature-Based Solutions to Reduce Flood Risk. Handbook of Environmental Chemistry, 2021, , 339-354.	0.4	2
43	Comparative quantification of local climate regulation by green and blue urban areas in cities across Europe. Scientific Reports, 2021, 11, 23872.	3.3	9
44	Link between Land Use and Flood Risk Assessment in Urban Areas. Proceedings (mdpi), 2020, 30, .	0.2	1
45	Changes in Net Global Surface Water Area Since 1985. Proceedings (mdpi), 2020, 30, .	0.2	0
46	Nature€based solutions for meeting environmental and socio€economic challenges in land management and development. Land Degradation and Development, 2020, 31, 1867-1870.	3.9	16
47	Watershed-Based Evaluation of Automatic Sensor Data: Water Quality and Hydroclimatic Relationships. Sustainability, 2020, 12, 396.	3.2	2
48	Understanding interactions between urban development policies and GHG emissions: A case study in StockholmÂRegion. Ambio, 2020, 49, 1313-1327.	5.5	57
49	Capability and robustness of novel hybridized models used for drought hazard modeling in southeast Queensland, Australia. Science of the Total Environment, 2020, 718, 134656.	8.0	28
50	Prediction of factors affecting activation of soil erosion by mathematical modeling at pedon scale under laboratory conditions. Scientific Reports, 2020, 10, 20163.	3.3	22
51	Development of novel hybridized models for urban flood susceptibility mapping. Scientific Reports, 2020, 10, 12937.	3.3	68
52	Effects of Water Level Decline in Lake Urmia, Iran, on Local Climate Conditions. Water (Switzerland), 2020, 12, 2153.	2.7	22
53	Inventory and Connectivity Assessment of Wetlands in Northern Landscapes with a Depression-Based DEM Method. Water (Switzerland), 2020, 12, 3355.	2.7	4
54	Effectiveness of Nature-Based Solutions in Mitigating Flood Hazard in a Mediterranean Peri-Urban Catchment. Water (Switzerland), 2020, 12, 2893.	2.7	25

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55	Benefits of Combining Satellite-Derived Snow Cover Data and Discharge Data to Calibrate a Glaciated Catchment in Sub-Arctic Iceland. Water (Switzerland), 2020, 12, 975.	2.7	7
56	TET: An automated tool for evaluating suitable check-dam sites based on sediment trapping efficiency. Journal of Cleaner Production, 2020, 266, 122051.	9.3	8
57	Close co-variation between soil moisture and runoff emerging from multi-catchment data across Europe. Scientific Reports, 2020, 10, 4817.	3.3	25
58	Impact of Land-Use Changes on Spatiotemporal Suspended Sediment Dynamics within a Peri-Urban Catchment. Water (Switzerland), 2020, 12, 665.	2.7	15
59	Variability and change in the hydro-climate and water resources of Iran over a recent 30-year period. Scientific Reports, 2020, 10, 7450.	3.3	48
60	Unraveling Latent Aspects of Urban Expansion: Desertification Risk Reveals More. International Journal of Environmental Research and Public Health, 2020, 17, 4001.	2.6	10
61	Open-source planning support system for sustainable regional planning: A case study of Stockholm County, Sweden. Environment and Planning B: Urban Analytics and City Science, 2020, 47, 1508-1523.	2.0	13
62	A Modeling Comparison of Groundwater Potential Mapping in a Mountain Bedrock Aquifer: QUEST, GARP, and RF Models. Water (Switzerland), 2020, 12, 679.	2.7	34
63	Global Wetting by Seasonal Surface Water Over the Last Decades. Earth's Future, 2020, 8, e2019EF001449.	6.3	17
64	Implications of Projected Hydroclimatic Change for Tularemia Outbreaks in High-Risk Areas across Sweden. International Journal of Environmental Research and Public Health, 2020, 17, 6786.	2.6	8
65	Data for wetlandscapes and their changes around the world. Earth System Science Data, 2020, 12, 1083-1100.	9.9	12
66	Potential for Hydroclimatically Driven Shifts in Infectious Disease Outbreaks: The Case of Tularemia in High-Latitude Regions. International Journal of Environmental Research and Public Health, 2019, 16, 3717.	2.6	10
67	A comparison of statistical methods and multi-criteria decision making to map flood hazard susceptibility in Northern Iran. Science of the Total Environment, 2019, 660, 443-458.	8.0	189
68	Multi-Hazard Exposure Mapping Using Machine Learning Techniques: A Case Study from Iran. Remote Sensing, 2019, 11, 1943.	4.0	56
69	Assessing flood probability for transportation infrastructure based on catchment characteristics, sediment connectivity and remotely sensed soil moisture. Science of the Total Environment, 2019, 661, 393-406.	8.0	76
70	Using comparative socio-ecological modeling to support Climate Action Planning (CAP). Journal of Cleaner Production, 2019, 232, 30-42.	9.3	43
71	Meeting sustainable development challenges in growing cities: Coupled social-ecological systems modeling of land use and water changes. Journal of Environmental Management, 2019, 245, 471-480.	7.8	61
72	Twenty-three unsolved problems in hydrology (UPH) â€" a community perspective. Hydrological Sciences Journal, 2019, 64, 1141-1158.	2.6	474

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73	An Automated Python Language-Based Tool for Creating Absence Samples in Groundwater Potential Mapping. Remote Sensing, 2019, 11, 1375.	4.0	20
74	Change Drivers and Impacts in Arctic Wetland Landscapesâ€"Literature Review and Gap Analysis. Water (Switzerland), 2019, 11, 722.	2.7	11
75	The Potential of Wetlands in Achieving the Sustainable Development Goals of the 2030 Agenda. Water (Switzerland), 2019, 11, 609.	2.7	48
76	GIS-based landslide susceptibility mapping using numerical risk factor bivariate model and its ensemble with linear multivariate regression and boosted regression tree algorithms. Journal of Mountain Science, 2019, 16, 595-618.	2.0	110
77	Priorities and Interactions of Sustainable Development Goals (SDGs) with Focus on Wetlands. Water (Switzerland), 2019, 11, 619.	2.7	75
78	Evolution of Green Areas in Europeâ€"A Comparison Between Three Urban Areas. Proceedings (mdpi), 2019, 30, 15.	0.2	0
79	GIS-Based Site Selection for Check Dams in Watersheds: Considering Geomorphometric and Topo-Hydrological Factors. Sustainability, 2019, 11, 5639.	3.2	53
80	Urban Areas. Advances in Chemical Pollution, Environmental Management and Protection, 2019, 4, 207-249.	0.5	7
81	Contrasting Hydroclimatic Modelâ€Data Agreements Over the Nordicâ€Arctic Region. Earth's Future, 2019, 7, 1270-1282.	6.3	7
82	The impact of political, socio-economic and cultural factors on implementing environment friendly techniques for sustainable land management and climate change mitigation in Romania. Science of the Total Environment, 2019, 654, 418-429.	8.0	34
83	Climatic or regionally induced by humans? Tracing hydro-climatic and land-use changes to better understand the Lake Urmia tragedy. Journal of Hydrology, 2019, 569, 203-217.	5.4	171
84	Commentary: The Blauzone Rheintal Approach from a Natural Hazard Perspectiveâ€"Challenges to Establish Effective Flood Defence Management Programs. , 2019, , 161-167.		1
85	The superior effect of nature based solutions in land management for enhancing ecosystem services. Science of the Total Environment, 2018, 610-611, 997-1009.	8.0	606
86	H2 effect in Chevronâ€"Phillips ethylene trimerization catalytic system: an experimental and theoretical investigation. Polymer Bulletin, 2018, 75, 3555-3565.	3.3	8
87	Links between Nordic and Arctic hydroclimate and vegetation changes: Contribution to possible landscapeâ€scale natureâ€based solutions. Land Degradation and Development, 2018, 29, 3663-3673.	3.9	9
88	Increased access to nearby greenâ€"blue areas associated with greater metropolitan population wellâ€being. Land Degradation and Development, 2018, 29, 3607-3616.	3.9	18
89	Nature-based solutions for flood-drought risk mitigation in vulnerable urbanizing parts of East-Africa. Current Opinion in Environmental Science and Health, 2018, 5, 73-78.	4.1	91
90	Sociohydrology modeling for complex urban environments in support of integrated land and water resource management practices. Land Degradation and Development, 2018, 29, 3639-3652.	3.9	48

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91	Soil moisture remote-sensing applications for identification of flood-prone areas along transport infrastructure. Environmental Earth Sciences, 2018, 77, 1.	2.7	45
92	Human impacts on soil. Science of the Total Environment, 2018, 644, 830-834.	8.0	24
93	Flood probability quantification for road infrastructure: Data-driven spatial-statistical approach and case study applications. Science of the Total Environment, 2017, 581-582, 386-398.	8.0	68
94	Distinction, quantification and mapping of potential and realized supply-demand of flow-dependent ecosystem services. Science of the Total Environment, 2017, 593-594, 599-609.	8.0	109
95	Urbanization Development under Climate Change: Hydrological Responses in a Periâ€Urban Mediterranean Catchment. Land Degradation and Development, 2017, 28, 2207-2221.	3.9	59
96	Wetlands as large-scale nature-based solutions: Status and challenges for research, engineering and management. Ecological Engineering, 2017, 108, 489-497.	3.6	217
97	Natural Hazard Susceptibility Assessment for Road Planning Using Spatial Multi-Criteria Analysis. Environmental Management, 2017, 60, 823-851.	2.7	35
98	Integrating ecosystem services in the assessment of urban energy trajectories â€“ A study of the Stockholm Region. Energy Policy, 2017, 100, 338-349.	8.8	29
99	Accessibility of Water-Related Cultural Ecosystem Services through Public Transportâ€"A Model for Planning Support in the Stockholm Region. Sustainability, 2017, 9, 346.	3.2	10
100	Drought and flood in the Anthropocene: feedback mechanisms in reservoir operation. Earth System Dynamics, 2017, 8, 225-233.	7.1	122
101	Predicting and communicating flood risk of transport infrastructure based on watershed characteristics. Journal of Environmental Management, 2016, 182, 505-518.	7.8	35
102	Modeller subjectivity and calibration impacts on hydrological model applications: An event-based comparison for a road-adjacent catchment in south-east Norway. Science of the Total Environment, 2015, 502, 315-329.	8.0	17
103	On the utilization of hydrological modelling for road drainage design under climate and land use change. Science of the Total Environment, 2014, 475, 97-103.	8.0	28
104	Quantifying the hydrological impact of simulated changes in land use on peak discharge in a small catchment. Science of the Total Environment, 2014, 466-467, 741-754.	8.0	66
105	A method for mapping flood hazard along roads. Journal of Environmental Management, 2014, 133, 69-77.	7.8	61
106	The calculation of vibrational energy levels of polyatomic molecules including anharmonic effect using contact transformation perturbation method. International Journal of Quantum Chemistry, 2013, 113, 1180-1191.	2.0	1
107	Road Drainage in Sweden: Current Practice and Suggestions for Adaptation to Climate Change. Journal of Infrastructure Systems, 2013, 19, 147-156.	1.8	37