Ronny Berndtsson

List of Publications by Year
in descending order

229	6,418	61857	123241
papers	citations	43 h-index	61 g-index

241	241	241	5934
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A critical review on the application of the National Sanitation Foundation Water Quality Index. Environmental Pollution, 2019, 244, 575-587.	3.7	147
2	Fractal analysis of highâ€resolution rainfall time series. Journal of Geophysical Research, 1993, 98, 23265-23274.	3.3	145
3	Protozoan Parasites in Drinking Water: A System Approach for Improved Water, Sanitation and Hygiene in Developing Countries. International Journal of Environmental Research and Public Health, 2018, 15, 495.	1.2	139
4	Hydrological Response to Climate Change for Gilgel Abay River, in the Lake Tana Basin - Upper Blue Nile Basin of Ethiopia. PLoS ONE, 2013, 8, e79296.	1.1	134
5	Multifractal Properties of Daily Rainfall in Two Different Climates. Water Resources Research, 1996, 32, 2463-2472.	1.7	102
6	Drivers of changing urban flood risk: A framework for action. Journal of Environmental Management, 2019, 240, 47-56.	3.8	102
7	Effects of surface characteristics on infiltration patterns in an arid shrub desert. Hydrological Processes, 2007, 21, 72-79.	1.1	98
8	Multi-criteria Decision Analysis (MCDA) for Integrated Water Resources Management (IWRM) in the Lake Poopo Basin, Bolivia. Water Resources Management, 2010, 24, 2267-2289.	1.9	95
9	Soil water and temperature patterns in an arid desert dune sand. Journal of Hydrology, 1996, 185, 221-240.	2.3	93
10	Inverse method using boosted regression tree and k-nearest neighbor to quantify effects of point and non-point source nitrate pollution in groundwater. Journal of Cleaner Production, 2019, 228, 1248-1263.	4.6	85
11	Re-Thinking Urban Flood Managementâ€"Time for a Regime Shift. Water (Switzerland), 2016, 8, 332.	1.2	84
12	Potential fresh water saving using greywater in toilet flushing in Syria. Journal of Environmental Management, 2011, 92, 2447-2453.	3.8	81
13	Evidence of chaos in the rainfall-runoff process. Hydrological Sciences Journal, 2001, 46, 131-145.	1.2	80
14	Application of extreme gradient boosting and parallel random forest algorithms for assessing groundwater spring potential using DEM-derived factors. Journal of Hydrology, 2020, 589, 125197.	2.3	78
15	Monthly runoff simulation: Comparing and combining conceptual and neural network models. Journal of Hydrology, 2006, 321, 344-363.	2.3	75
16	Identification of typical synoptic patterns causing heavy rainfall in the rainy season in Japan by a Self-Organizing Map. Atmospheric Research, 2007, 83, 185-200.	1.8	74
17	Spatial and temporal scales in rainfall analysis â€" Some aspects and future perspectives. Journal of Hydrology, 1988, 100, 293-313.	2.3	73
18	Assessment of soil salinization risks under irrigation with brackish water in semiarid Tunisia. Environmental and Experimental Botany, 2013, 92, 176-185.	2.0	73

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19	Desert shrub stemflow and its significance in soil moisture replenishment. Hydrology and Earth System Sciences, 2011, 15, 561-567.	1.9	66
20	Field-scale variation of preferential flow as indicated from dye coverage. Journal of Hydrology, 2002, 257, 164-173.	2.3	65
21	Suitability of Gamma, Chi-square, Weibull, and Beta distributions as synthetic unit hydrographs. Journal of Hydrology, 2007, 334, 28-38.	2.3	65
22	Monthly runoff prediction using phase space reconstruction. Hydrological Sciences Journal, 2001, 46, 377-387.	1.2	62
23	Temporal characteristics of groundwater chemistry affected by the 2016 Kumamoto earthquake using self-organizing maps. Journal of Hydrology, 2020, 582, 124519.	2.3	62
24	Climate Change Impact on Flood Frequency and Source Area in Northern Iran under CMIP5 Scenarios. Water (Switzerland), 2019, 11, 273.	1.2	61
25	Application of remote sensing techniques and machine learning algorithms in dust source detection and dust source susceptibility mapping. Ecological Informatics, 2020, 56, 101059.	2.3	61
26	Texture and Electrical Conductivity Effects on Temperature Dependency in Time Domain Reflectometry. Soil Science Society of America Journal, 1998, 62, 887-893.	1.2	59
27	Simplified Two-Parameter Gamma Distribution for Derivation of Synthetic Unit Hydrograph. Journal of Hydrologic Engineering - ASCE, 2003, 8, 226-230.	0.8	59
28	Canopy storage capacity of xerophytic shrubs in Northwestern China. Journal of Hydrology, 2012, 454-455, 152-159.	2.3	58
29	Catchment Classification Framework in Hydrology: Challenges and Directions. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	0.8	58
30	Water Related Health Problems in Central Asiaâ€"A Review. Water (Switzerland), 2016, 8, 219.	1.2	58
31	Spatial variability of infiltration in a semi-arid environment. Journal of Hydrology, 1987, 90, 117-133.	2.3	56
32	Comparison between rainfall simulator erosion and observed reservoir sedimentation in an erosion-sensitive semiarid catchment. Catena, 2002, 50, 1-16.	2.2	56
33	Temporal trends and sedimentâ€"water partitioning of per- and polyfluoroalkyl substances (PFAS) in lake sediment. Chemosphere, 2019, 227, 624-629.	4.2	56
34	Investigating Willingness to Pay to Improve Water Supply Services: Application of Contingent Valuation Method. Water (Switzerland), 2015, 7, 3024-3039.	1.2	55
35	Recent and future trends in sea surface temperature across the Persian Gulf and Gulf of Oman. PLoS ONE, 2019, 14, e0212790.	1.1	55
36	Characterizing unsaturated solute transport by simultaneous use of dye and bromide. Journal of Hydrology, 2004, 289, 23-35.	2.3	54

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37	Spatial trends of nitrate pollution and groundwater chemistry in Shimabara, Nagasaki, Japan. Environmental Earth Sciences, 2016, 75, 1.	1.3	53
38	Development of a Modified SMA Based MSCS-CN Model for Runoff Estimation. Water Resources Management, 2015, 29, 4111-4127.	1.9	52
39	Ground Validation of GPM IMERG Precipitation Products over Iran. Remote Sensing, 2020, 12, 48.	1.8	51
40	Is correlation dimension a reliable indicator of low-dimensional chaos in short hydrological time series?. Water Resources Research, 2002, 38, 3-1-3-8.	1.7	50
41	Natural vs. artificial groundwater recharge, quantification through inverse modeling. Hydrology and Earth System Sciences, 2013, 17, 637-650.	1.9	50
42	Groundwater Pollution Sources Apportionment in the Ghaen Plain, Iran. International Journal of Environmental Research and Public Health, 2018, 15, 172.	1.2	49
43	Artificial recharge by floodwater spreading estimated by water balances and groundwater modelling in arid Iran. Hydrological Sciences Journal, 2015, 60, 336-350.	1.2	48
44	Use of Heavy Metal Content and Modified Water Quality Index to Assess Groundwater Quality in a Semiarid Area. Water (Switzerland), 2020, 12, 1115.	1.2	48
45	Regionalization of precipitation characteristics in Iranâ€™s Lake Urmia basin. Theoretical and Applied Climatology, 2018, 132, 363-373.	1.3	47
46	Evaluation of CMIP5 models for west and southwest Iran using TOPSIS-based method. Theoretical and Applied Climatology, 2019, 137, 533-543.	1.3	47
47	A probabilistic-deterministic analysis of human health risk related to the exposure to potentially toxic elements in groundwater of Urmia coastal aquifer (NW of Iran) with a special focus on arsenic speciation and temporal variation. Stochastic Environmental Research and Risk Assessment, 2021, 35, 1509.	1.9	46
48	Application of Advanced Machine Learning Algorithms to Assess Groundwater Potential Using Remote Sensing-Derived Data. Remote Sensing, 2020, 12, 2742.	1.8	46
49	Soil Water and Salinity Distribution under Different Treatments of Drip Irrigation. Soil Science Society of America Journal, 2013, 77, 1144-1156.	1.2	45
50	Relationship between water quality and macro-scale parameters (land use, erosion, geology, and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2 1588-1600.	3.9	45
51	Fluoride occurrence and human health risk from groundwater use at the west coast of Urmia Lake, Iran. Arabian Journal of Geosciences, 2020, 13, 1.	0.6	45
52	NDVI Dynamics and Its Response to Climate Change and Reforestation in Northern China. Remote Sensing, 2020, 12, 4138.	1.8	45
53	Interpolating monthly precipitation by self-organizing map (SOM) and multilayer perceptron (MLP). Hydrological Sciences Journal, 2007, 52, 305-317.	1.2	44
54	An analysis of the rainfall time structure by box countingâ€”some practical implications. Journal of Hydrology, 1992, 137, 261-277.	2.3	42

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55	Reply to â€œWhich chaos in the rainfall-runoff process?â€• Hydrological Sciences Journal, 2002, 47, 149-158.	1.2	40
56	Effects of land-use change on groundwater recharge model parameters. Hydrological Sciences Journal, 2009, 54, 300-315.	1.2	40
57	Forecasting discharge in Amazonia using artificial neural networks. International Journal of Climatology, 2000, 20, 1495-1507.	1.5	39
58	Soil water content and salinity determination using different dielectric methods in saline gypsiferous soil / DÃ©termination de la teneur en eau et de la salinitÃ© de sols salins gypseux Ã l'aide de diffÃ©rentes mÃ©thodes diÃ©lectriques. Hydrological Sciences Journal, 2008, 53, 253-265.	1.2	39
59	On the use of coprostanol to identify source of nitrate pollution in groundwater. Journal of Hydrology, 2017, 550, 663-668.	2.3	39
60	Characterizing preferential transport during flood irrigation of a heavy clay soil using the dye Vitasyn Blau. Geoderma, 2001, 100, 49-66.	2.3	38
61	Measurement of rainfall interception by xerophytic shrubs in re-vegetated sand dunes / Mesure de l'interception de la pluie par des arbustes xÃ©rophiles sur des dunes de sable replantÃ©es. Hydrological Sciences Journal, 2005, 50, .	1.2	38
62	Hydro Climatic Trend and Periodicity for the Source Region of the Yellow River. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	0.8	38
63	Predicting the Dielectric Constantâ€“Water Content Relationship Using Artificial Neural Networks. Soil Science Society of America Journal, 2002, 66, 1424-1429.	1.2	37
64	Water balance change for a re-vegetated xerophyte shrub area/Changement du bilan hydrique dâ€™une zone replantÃ©e dâ€™arbustes xÃ©rophiles. Hydrological Sciences Journal, 2004, 49, .	1.2	37
65	Spatial soil loss risk and reservoir siltation in semi-arid Tunisia. Hydrological Sciences Journal, 2010, 55, 121-137.	1.2	37
66	Quantitative relationship between SOI and observed precipitation in southern Korea and Japan by nonparametric approaches. Journal of Hydrology, 2005, 301, 54-65.	2.3	36
67	Impact of ENSO regimes on developing- and decaying-phase precipitation during rainy season in China. Hydrology and Earth System Sciences, 2017, 21, 5415-5426.	1.9	36
68	Dynamics of monthly rainfall-runoff process at the Gota basin: A search for chaos. Hydrology and Earth System Sciences, 2000, 4, 407-417.	1.9	35
69	Parameter Estimation of Beta Distribution for Unit Hydrograph Derivation. Journal of Hydrologic Engineering - ASCE, 2004, 9, 325-332.	0.8	35
70	Use of a geomorphological transfer function to model design floods in small hillside catchments in semiarid Tunisia. Journal of Hydrology, 2004, 287, 197-213.	2.3	35
71	Measuring nonaqueous phase liquid saturation in soil using time domain reflectometry. Water Resources Research, 2002, 38, 22-1-22-8.	1.7	34
72	Soil Solution Electrical Conductivity Measurements Using Different Dielectric Techniques. Soil Science Society of America Journal, 2003, 67, 1071-1078.	1.2	34

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73	Summer precipitation prediction in the source region of the Yellow River using climate indices. Hydrology Research, 2016, 47, 847-856.	1.1	34
74	Desiccating Lake Urmia: A New Dust Source of Regional Importance. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1483-1487.	1.4	34
75	Water in Kazakhstan, a key in Central Asian water management. Hydrological Sciences Journal, 2018, 63, 752-762.	1.2	33
76	Influence of geometric design of alternate partial root-zone subsurface drip irrigation (APRSDI) with brackish water on soil moisture and salinity distribution. Agricultural Water Management, 2012, 103, 182-190.	2.4	32
77	Variability of soil water content along a transect in a desert area. Journal of Arid Environments, 1994, 27, 127-139.	1.2	31
78	The Nile and the Grand Ethiopian Renaissance Dam: Is There a Meeting Point between Nationalism and Hydrosolidarity?. Journal of Contemporary Water Research and Education, 2015, 155, 73-82.	0.7	31
79	Could Changing Power Relationships Lead to Better Water Sharing in Central Asia?. Water (Switzerland), 2017, 9, 139.	1.2	30
80	Temporal and depth variation of water quality due to thermal stratification in Karkheh Reservoir, Iran. Journal of Hydrology: Regional Studies, 2018, 19, 279-286.	1.0	30
81	Plot-Scale Solute Transport in a Semiarid Agricultural Soil. Soil Science Society of America Journal, 1994, 58, 1052-1060.	1.2	29
82	Prediction of unspots using reconstructed chaotic system equations. Journal of Geophysical Research, 1995, 100, 14773.	3.3	29
83	Regionalization and spatial properties of CearÃ¡ State rainfall in northeast Brazil. Journal of Geophysical Research, 1996, 101, 4221-4233.	3.3	29
84	Modeling plot scale dye penetration by a diffusion limited aggregation (DLA) model. Journal of Hydrology, 2001, 250, 98-105.	2.3	28
85	Surface and subsurface water balance estimation by the groundwater recharge model and a 3-D two-phase flow model/Estimation de bilan hydrologique de surface et de subsurface Ã lâ€™aide de modÃ¨les de recharge de nappe et dâ€™Ã©coulement diphasique 3-D. Hydrological Sciences Journal, 2004, 49, .	1.2	28
86	SIMULATION OF SOIL WATER AND SALINITY DISTRIBUTION UNDER SURFACE DRIP IRRIGATION. Irrigation and Drainage, 2013, 62, 352-362.	0.8	28
87	Adaptation of surface water supply to climate change in central Iran. Journal of Water and Climate Change, 2014, 5, 391-407.	1.2	28
88	Phase-space reconstruction and self-exciting threshold modeling approach to forecast lake water levels. Stochastic Environmental Research and Risk Assessment, 2014, 28, 955-971.	1.9	27
89	Temporal variability in spatial correlation of daily rainfall. Water Resources Research, 1988, 24, 1511-1517.	1.7	26
90	Hydrological processes in macrocatchment water harvesting in the arid region of Tunisia: the traditional system of tabias/Processus hydrologiques au sein dâ€™un amÃ©nagement de collecte des eaux dans la rÃ©gion aride tunisienne: le systÃ¨me traditionnel des tabias. Hydrological Sciences Journal, 2004, 49, .	1.2	26

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91	Impact of complexity on daily and multi-step forecasting of streamflow with chaotic, stochastic, and black-box models. Stochastic Environmental Research and Risk Assessment, 2017, 31, 661-682.	1.9	26
92	Influence of Root Distribution on Preferential Flow in Deciduous and Coniferous Forest Soils. Forests, 2019, 10, 986.	0.9	26
93	Precipitation variability and its relation to climate anomalies in the Bolivian Altiplano. International Journal of Climatology, 2019, 39, 2096-2107.	1.5	26
94	Impact of spatiotemporal land-use and land-cover changes on surface urban heat islands in a semiarid region using Landsat data. International Journal of Digital Earth, 2021, 14, 250-270.	1.6	26
95	Temporal patterns and spatial scale of soil water variability in a small humid catchment. Journal of Hydrology, 1988, 104, 111-128.	2.3	25
96	Estimating transport parameters in an undisturbed soil column using time domain reflectometry and transfer function theory. Journal of Hydrology, 1998, 205, 232-247.	2.3	25
97	Classification of groundwater chemistry in Shimabara, using self-organizing maps. Hydrology Research, 2017, 48, 840-850.	1.1	25
98	Using neural networks for calibration of time-domain reflectometry measurements. Hydrological Sciences Journal, 2001, 46, 389-398.	1.2	24
99	Multiscaling analysis and random cascade modeling of dye infiltration. Water Resources Research, 2002, 38, 45-1-45-11.	1.7	24
100	Hybrid Model for Derivation of Synthetic Unit Hydrograph. Journal of Hydrologic Engineering - ASCE, 2005, 10, 458-467.	0.8	24
101	Modelling Lake Titicaca's daily and monthly evaporation. Hydrology and Earth System Sciences, 2019, 23, 657-668.	1.9	24
102	Spatiotemporal variation of nitrate concentrations in soil and groundwater of an intensely polluted agricultural area. Scientific Reports, 2021, 11, 2598.	1.6	24
103	Real-time rainfall prediction at small space-time scales using a two-dimensional stochastic advection-diffusion model. Water Resources Research, 1993, 29, 1489-1504.	1.7	23
104	Hydrogeochemical properties of a salinity-affected coastal aquifer in western Japan. Hydrological Processes, 2006, 20, 1425-1435.	1.1	23
105	Regional sea-surface temperatures explain spatial and temporal variation of summer precipitation in the source region of the Yellow River. Hydrological Sciences Journal, 2016, 61, 1383-1394.	1.2	23
106	Reactive Solute Transport with a Variable Selectivity Coefficient in an Undisturbed Soil Column. Soil Science Society of America Journal, 1997, 61, 1539-1546.	1.2	22
107	Solute transport and water content measurements in clay soils using time domain reflectometry. Hydrological Sciences Journal, 2000, 45, 833-847.	1.2	22
108	Access to Drinking Water and Sanitation in Rural Kazakhstan. International Journal of Environmental Research and Public Health, 2016, 13, 1115.	1.2	22

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109	Novel approach for predicting groundwater storage loss using machine learning. Journal of Environmental Management, 2021, 296, 113237.	3.8	22
110	On the use of cross-correlation analysis in studies of patterns of rainfall variability. Journal of Hydrology, 1987, 93, 113-134.	2.3	21
111	Urban Flood-Risk Assessment: Integration of Decision-Making and Machine Learning. Sustainability, 2022, 14, 4483.	1.6	21
112	Hydrologic Response of Climate Change in the Source Region of the Yangtze River, Based on Water Balance Analysis. Water (Switzerland), 2017, 9, 115.	1.2	20
113	Spatial and temporal characteristics of high-intensive rainfall in northern Tunisia. Journal of Hydrology, 1986, 87, 285-298.	2.3	19
114	Analysis of soil water dynamics in time and space by use of pattern recognition. Water Resources Research, 1991, 27, 1623-1636.	1.7	19
115	Groundwater geochemistry of a nitrate-contaminated agricultural site. Environmental Earth Sciences, 2016, 75, 1.	1.3	19
116	Distribution of heavy metals and related health risks through soil ingestion in rural areas of western Japan. Chemosphere, 2022, 290, 133316.	4.2	19
117	Characterization of insolubilized humic acid and its sorption behaviors. Environmental Geology, 2009, 57, 1847-1853.	1.2	18
118	Modeling of Fertilizer Transport for Various Fertigation Scenarios under Drip Irrigation. Water (Switzerland), 2019, 11, 893.	1.2	18
119	HPI appraisal of concentrations of heavy metals in dynamic and static flow of Ganga River System. Environment, Development and Sustainability, 2020, 22, 33-46.	2.7	18
120	Quantitative Assessment of Environmental Sensitivity to Desertification Using the Modified MEDALUS Model in a Semiarid Area. Sustainability, 2021, 13, 7817.	1.6	18
121	Regionalizing fine time-scale rainfall affected by topography in semi-arid Tunisia /RÃ©gionalisation de la pluie Ã pas de temps fins affectÃ©e par la topographie en Tunisie semi-aride. Hydrological Sciences Journal, 2007, 52, 1199-1215.	1.2	17
122	Numerical evaluation of subsurface trickle irrigation with brackish water. Irrigation Science, 2013, 31, 1125-1137.	1.3	17
123	Application of infiltration equations to a catchment with large spatial variability in infiltration. Hydrological Sciences Journal, 1987, 32, 399-413.	1.2	16
124	Estimation of LNAPL saturation in fine sand using time-domain reflectometry / Estimation de la saturation en LPNAL dans du sable fin grÃ¢ce Ã la rÃ©flectomÃ©trie en domaine temporel. Hydrological Sciences Journal, 2004, 49, .	1.2	16
125	SPATE IRRIGATION OF BARLEY THROUGH FLOODWATER HARVESTING IN THE GAREH-BYGONE PLAIN, IRAN. Irrigation and Drainage, 2014, 63, 599-611.	0.8	16
126	Analysis of earthquake-induced groundwater level change using self-organizing maps. Environmental Earth Sciences, 2019, 78, 1.	1.3	16

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127	Spatial Dependence of Geochemical Elements in a Semiarid Agricultural Field: II. Geostatistical Properties. Soil Science Society of America Journal, 1993, 57, 1323-1329.	1.2	15
128	CHARACTERIZATION OF EXTREME RAINFALL IN AN EAST ASIAN MONSOON-CLIMATE CATCHMENT IN THE UPPER REACHES OF THE HUAI RIVER, CHINA. International Journal of Climatology, 1996, 16, 321-337.	1.5	15
129	Relating Air Temperatures to the Depletion of Snow Covered Area in a Himalayan Basin. Hydrology Research, 2003, 34, 267-280.	1.1	15
130	Surface water chemistry and nitrate pollution in Shimabara, Nagasaki, Japan. Environmental Earth Sciences, 2018, 77, 1.	1.3	15
131	Use of sterols to monitor surface water quality change and nitrate pollution source. Ecological Indicators, 2019, 107, 105534.	2.6	15
132	Evidence of climate shift for temperature and precipitation extremes across Gansu Province in China. Theoretical and Applied Climatology, 2020, 139, 1137-1149.	1.3	15
133	INSIDE: An efficient guide for sustainable remediation practice in addressing contaminated soil and groundwater. Science of the Total Environment, 2020, 740, 139879.	3.9	15
134	A Combination of Metaheuristic Optimization Algorithms and Machine Learning Methods Improves the Prediction of Groundwater Level. Water (Switzerland), 2022, 14, 751.	1.2	15
135	Topographical and coastal influence on spatial precipitation patterns in Tunisia. International Journal of Climatology, 1989, 9, 357-369.	1.5	14
136	Sorption kinetics of naphthalene and phenanthrene in loess soils. Environmental Geology, 2005, 47, 467-474.	1.2	14
137	Systemic Inequity in Urban Flood Exposure and Damage Compensation. Water (Switzerland), 2020, 12, 3152.	1.2	14
138	Impact of the Sediment Organic vs. Mineral Content on Distribution of the Per- and Polyfluoroalkyl Substances (PFAS) in Lake Sediment. International Journal of Environmental Research and Public Health, 2020, 17, 5642.	1.2	14
139	Efficient organic mulch thickness for soil and water conservation in urban areas. Scientific Reports, 2021, 11, 6259.	1.6	14
140	North Atlantic Oscillation; a Climatic Indicator to Predict Hydropower Availability in Scandinavia. Hydrology Research, 2002, 33, 415-424.	1.1	14
141	Is road-side fishpond water in Bangladesh safe for human use? An assessment using water quality indices. Environmental Challenges, 2022, 6, 100434.	2.0	14
142	Historical aspects of soil erosion in the Mejerda catchment, Tunisia. Hydrological Sciences Journal, 2012, 57, 901-912.	1.2	13
143	Role of Hydrological Studies for the Development of the TDPS System. Water (Switzerland), 2016, 8, 144.	1.2	13
144	On the Predictability of Daily Rainfall during Rainy Season over the Huaihe River Basin. Water (Switzerland), 2019, 11, 916.	1.2	13

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145	Mini-Grid Hydropower for Rural Electrification in Mozambique: Meeting Local Needs with Supply in a Nexus Approach. Water (Switzerland), 2019, 11, 305.	1.2	13
146	The Future of Water Management in Central Asia. Water (Switzerland), 2020, 12, 2241.	1.2	13
147	PODMT3DMS-Tool: proper orthogonal decomposition linked to the MT3DMS model for nitrate simulation in aquifers. Hydrogeology Journal, 2020, 28, 1125-1142.	0.9	13
148	Drought impact in the Bolivian Altiplano agriculture associated with the El NiÃ±oâ€“Southern Oscillation using satellite imagery data. Natural Hazards and Earth System Sciences, 2021, 21, 995-1010.	1.5	13
149	Some Eulerian and Lagrangian statistical properties of rainfall at small space-time scales. Journal of Hydrology, 1994, 153, 339-355.	2.3	12
150	FIELD VARIABILITY OF ELEMENT CONCENTRATIONS IN WHEAT AND SOIL. Soil Science, 1995, 159, 311-320.	0.9	12
151	Real-time tracking of convective rainfall properties using a two-dimensional advection-diffusion model. Journal of Hydrology, 1997, 203, 109-118.	2.3	12
152	Noninvasive Water Content and Electrical Conductivity Laboratory Measurements using Time Domain Reflectometry. Soil Science Society of America Journal, 1998, 62, 1471-1476.	1.2	12
153	Laboratory Calibration and Field Validation of Soil Water Content and Salinity Measurements Using the 5TE Sensor. Sensors, 2019, 19, 5272.	2.1	12
154	Spatial Dependence of Geochemical Elements in a Semiarid Agricultural Field: I. Scale Properties. Soil Science Society of America Journal, 1993, 57, 1316-1322.	1.2	11
155	Social Acceptability of Flood Management Strategies under Climate Change Using Contingent Valuation Method (CVM). Sustainability, 2019, 11, 5053.	1.6	11
156	Maize residue effects on PM2.5, PM10, and dust emission from agricultural land. Soil and Tillage Research, 2021, 205, 104738.	2.6	11
157	Linear and Nonlinear Trend Analyzes in Global Satelliteâ€Based Precipitation, 1998â€“2017. Earth's Future, 2021, 9, e2020EF001835.	2.4	11
158	Saltwater intrusion in coastal aquifer ??? comparison between the CIP and MOC simulation technique. Environmental Modeling and Assessment, 2005, 10, 323-329.	1.2	10
159	ENSO Influence on Rainy Season Precipitation over the Yangtze River Basin. Water (Switzerland), 2017, 9, 469.	1.2	10
160	Hydrogeochemical evolution of groundwater in a Quaternary sediment and Cretaceous sandstone unconfined aquifer in Northwestern China. Environmental Earth Sciences, 2018, 77, 1.	1.3	10
161	Simplified SMA-inspired 1-parameter SCS-CN model for runoff estimation. Arabian Journal of Geosciences, 2018, 11, 1.	0.6	10
162	Changes in Precipitation Extremes over the Source Region of the Yellow River and Its Relationship with Teleconnection Patterns. Water (Switzerland), 2020, 12, 978.	1.2	10

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163	Assessing data-scarce contaminated groundwater sites surrounding petrochemical industries. Environmental Earth Sciences, 2021, 80, 1.	1.3	10
164	Spatial Distribution and Source Identification of Water Quality Parameters of an Industrial Seaport Riverbank Area in Bangladesh. Water (Switzerland), 2022, 14, 1356.	1.2	10
165	Parameterization of rain cell properties using an advection-diffusion model and rain gage data. Atmospheric Research, 1996, 42, 67-73.	1.8	9
166	Integrated largeâ€scale circulation impact on rainy season precipitation in the source region of the Yangtze River. International Journal of Climatology, 2020, 40, 2285-2295.	1.5	9
167	Spatial Characteristics of Groundwater Chemistry in Unzen, Nagasaki, Japan. Water (Switzerland), 2021, 13, 426.	1.2	9
168	INSIDE-T: A Groundwater Contamination Transport Model for Sustainability Assessment in Remediation Practice. Sustainability, 2021, 13, 7596.	1.6	9
169	Climate vs. Human Impact: Quantitative and Qualitative Assessment of Streamflow Variation. Water (Switzerland), 2021, 13, 2404.	1.2	9
170	Syrian Water Resources between the present and the Future. Air, Soil and Water Research, 2011, 4, ASWR.S8076.	1.2	8
171	Evolutionary polynomial regression approach to predict longitudinal dispersion coefficient in rivers. Journal of Water Supply: Research and Technology - AQUA, 2018, , jws2018021.	0.6	8
172	NONLINEAR DYNAMICS AND CHAOS IN HYDROLOGY. , 2010, , 411-461.		8
173	Small-Scale Spatial Patterns of Bulk Atmospheric Deposition. Journal of Environmental Quality, 1993, 22, 349-360.	1.0	7
174	Nonlinear and scaling spatial properties of soil geochemical element contents. Water Resources Research, 2001, 37, 1031-1042.	1.7	7
175	Modeling and prediction of complex environmental systems. Stochastic Environmental Research and Risk Assessment, 2009, 23, 861-862.	1.9	7
176	Challenges of Traditional Rainwater Harvesting Systems in Tunisia. Middle East Critique, 2015, 24, 289-306.	0.2	7
177	The Mass Balance of Glacier No. 1 at the Headwaters of the Urumqi River in Relation to Northern Hemisphere Teleconnection Patterns. Water (Switzerland), 2016, 8, 100.	1.2	7
178	NITROGEN SOURCE IMPACT ON THE SPATIAL VARIABILITY OF ORGANIC CARBON AND NITROGEN IN SOIL. Soil Science, 1996, 161, 288-297.	0.9	7
179	Parasitological Assessment of Sewage Sludge Samples for Potential Agricultural Reuse in Tunisia. International Journal of Environmental Research and Public Health, 2022, 19, 1657.	1.2	7
180	DynSus: Dynamic sustainability assessment in groundwater remediation practice. Science of the Total Environment, 2022, 832, 154992.	3.9	7

#	Article	IF	Citations
181	Diurnal Fluctuation of Groundwater Levels Caused by the Invasive Alien Mesquite Plant. Arid Land Research and Management, 2014, 28, 242-246.	0.6	6
182	Traditional irrigation techniques in MENA with focus on Tunisia. Hydrological Sciences Journal, 0, , .	1.2	6
183	Nutrient and salinity management for spinach production under sprinkler irrigation in the low desert region of California. Irrigation Science, 2021, 39, 735-749.	1.3	6
184	Urban flood damage claim analyses for improved flood damage assessment. International Journal of Disaster Risk Reduction, 2022, 77, 103099.	1.8	6
185	Transport and sedimentation of pollutants in a river reach: A chemical mass balance approach. Water Resources Research, 1990, 26, 1549-1558.	1.7	5
186	Access to sustainable electrification: Possibilities for rural Mozambique. Cogent Engineering, 2020, 7, 1765688.	1.1	5
187	A Comparative Analysis of Root Growth Modules in HYDRUS for SWC of Rice under Deficit Drip Irrigation. Water (Switzerland), 2021, 13, 1892.	1.2	5
188	Solar-Climatic Relationship and Implications for Hydrology. Hydrology Research, 2001, 32, 65-84.	1.1	5
189	Transect Scale Solute Transport Measured by Time Domain Reflectometry. Hydrology Research, 2002, 33, 145-164.	1.1	5
190	On the importance of hysteresis and heterogeneity in the numerical simulation of unsaturated flow. Hydrological Research Letters, 2012, 6, 59-64.	0.3	5
191	Drivers of Long-Term Land-Use Pressure in the Merguellil Wadi, Tunisia, Using DPSIR Approach and Remote Sensing. Land, 2022, 11, 138.	1.2	5
192	A hybrid approach based on simulation, optimization, and estimation of conjunctive use of surface water and groundwater resources. Environmental Science and Pollution Research, 2022, 29, 56828-56844.	2.7	5
193	Efficiency of Different Moringa oleifera (Lam.) Varieties as Natural Coagulants for Urban Wastewater Treatment. Sustainability, 2021, 13, 13500.	1.6	5
194	Closure to â€œSimplified Two-Parameter Gamma Distribution for Derivation of Synthetic Unit Hydrographâ€•by P. K. Bhunya, S. K. Mishra, and Ronny Berndtsson. Journal of Hydrologic Engineering - ASCE, 2005, 10, 521-522.	0.8	4
195	Educating the compassionate water engineerâ€“a remedy to avoid future water management failures? / Former des spÃ©cialistes de lâ€™eau citoyensâ€“une solution pour Ã©viter de futurs Ã©checs en gestion de lâ€™eau?. Hydrological Sciences Journal, 2005, 50, .	1.2	4
196	Soil heterogeneity effects on acid flushing of lead-contaminated soil. Environmental Modeling and Assessment, 2008, 13, 121-134.	1.2	4
197	Development of a Regional Non-dimensional Return Period Flood Model. Water Resources Management, 2010, 24, 1425-1439.	1.9	4
198	Earthquake effects on artificial groundwater recharge efforts in south Japan. Environmental Earth Sciences, 2020, 79, 1.	1.3	4

#	Article	IF	Citations
199	LATERAL BROMIDE DISTRIBUTION IN A VERTIC CLAY SOIL. Soil Science, 1998, 163, 544-555.	0.9	4
200	Evaluation of a new X-band weather radar for operational use in south Sweden. Water Science and Technology, 2020, 81, 1623-1635.	1.2	4
201	Effects of the Japanese 2016 Kumamoto Earthquake on Nitrate Content in Groundwater Supply. Minerals (Basel, Switzerland), 2021, 11, 43.	0.8	4
202	Areal Precipitation Coverage Ratio for Enhanced AI Modelling of Monthly Runoff: A New Satellite Data-Driven Scheme for Semi-Arid Mountainous Climate. Remote Sensing, 2022, 14, 270.	1.8	4
203	Quality Assessment and Rehabilitation of Mountain Forest in the Chongli Winter Olympic Games Area, China. Forests, 2022, 13, 783.	0.9	4
204	Groundwater Extraction Reduction within an Irrigation District by Enhancing the Surface Water Distribution. Water (Switzerland), 2022, 14, 1610.	1.2	4
205	Application of the Extended Kalman Filter for Reconstructing Systems from Chaotic Numerical Time Series. Proceedings of Hydraulic Engineering, 1993, 37, 853-856.	0.0	3
206	Comparison of soil salinity and solute transport for different cultivated soil types in northeastern Egypt / Comparaison de la salinitÃ© du sol et du transport de solutÃ©s pour diffÃ©rents types de sols cultivÃ©s du nord-est de l'Egypte. Hydrological Sciences Journal, 2008, 53, 466-478.	1.2	3
207	Groundwater nitrogen response to regional land-use management in South Japan. Environmental Earth Sciences, 2021, 80, 1.	1.3	3
208	Shortcomings in Current Practices for Decision-Making Process and Contaminated Sites Remediation. , 0, , .		3
209	The effects of ocean SST dipole on Mongolian summer rainfall. Geofizika, 2017, 34, 199-218.	0.1	3
210	On the Temporal and Spatial Characteristics of Short-Term Urban-Scale Rainfall and Its Real-Time Prediction.. Proceedings of Hydraulic Engineering, 1991, 35, 63-68.	0.0	2
211	SUMMARY AND FUTURE. , 2010, , 463-477.		2
212	Modeling Solute Transport in Volcanic Ash Soils with Cation Exchange and Anion Retardation. Environmental Modeling and Assessment, 2011, 16, 335-342.	1.2	2
213	Using Floodwater for Artificial Recharge and Spate Irrigation. , 2017, , 697-736.		2
214	Multi-Space Seasonal Precipitation Prediction Model Applied to the Source Region of the Yangtze River, China. Water (Switzerland), 2019, 11, 2440.	1.2	2
215	Is Climate or Direct Human Influence Responsible for Discharge Decrease in the Tunisian Merguellil Basin?. Water (Switzerland), 2021, 13, 2748.	1.2	2
216	Effect of land alignment and spatial soil salinity distribution on clover and sugar beet yield. Archives of Agronomy and Soil Science, 2007, 53, 391-403.	1.3	1

#	Article	IF	Citations
217	Modeling Solute Transport by DLA in Soils of Northeastern Egypt. PLoS ONE, 2015, 10, e0119943.	1.1	1
218	Prefaceâ€"Hydrology and Peace in the Middle East. Hydrological Sciences Journal, 0, , 1-1.	1.2	1
219	Modeling of Salt Sorption in Volcanic Ash Soil. Communications in Soil Science and Plant Analysis, 2017, 48, 2594-2600.	0.6	1
220	Spatiotemporal Changes in Precipitation and Temperature in the Huaibei Plain and the Relation between Local Precipitation and Global Teleconnection Patterns. Journal of Hydrologic Engineering - ASCE, 2019, 24, 05019019.	0.8	1
221	Assessment of hydro-geochemical properties of groundwater under the effect of desalination wastewater discharge in an arid area. Environmental Science and Pollution Research, 2021, 28, 6176-6194.	2.7	1
222	Can Potato Crop on Sandy Soil Be Safely Irrigated with Heavy Metal Polluted Water?. Water (Switzerland), 2022, 14, 1226.	1.2	1
223	Evaluation of modified Hilhorst models for pore electrical conductivity estimation using a low-cost dielectric sensor. Arabian Journal of Geosciences, 2022, 15, .	0.6	1
224	A simple and efficient conceptual catchment model allowing for spatial variation in rainfall. Hydrological Sciences Journal, 1986, 31, 475-487.	1.2	0
225	Soil water, soil chemical and crop variations in a clay soil. Hydrological Sciences Journal, 1996, 41, 171-178.	1.2	0
226	Closure to â€œParameter Estimation of Beta Distribution for Unit Hydrograph Derivationâ€•by P. K. Bhunya, S. K. Mishra, C. S. P. Ojha, and Ronny Berndtsson. Journal of Hydrologic Engineering - ASCE, 2006, 11, 196-198.	0.8	0
227	Closure to â€œHybrid Model for Derivation of Synthetic Unit Hydrographâ€•by P. K. Bhunya, N. C. Ghosh, S. K. Mishra, C. S. P. Ojha, and R. Berndtsson. Journal of Hydrologic Engineering - ASCE, 2007, 12, 546-547.	0.8	0
228	Field experiment and numerical simulation of point source irrigation with multiple tracers. PLoS ONE, 2018, 13, e0190500.	1.1	0
229	Viciaâ€"Micronucleus Test Application for Saline Irrigation Water Risk Assessment. Plants, 2022, 11, 462.	1.6	0