List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Review: The Yucatán Peninsula karst aquifer, Mexico. Hydrogeology Journal, 2011, 19, 507-524.	0.9	236
2	Will climate change exacerbate water stress in Central Asia?. Climatic Change, 2012, 112, 881-899.	1.7	151
3	Monitoring recent lake level variations on the Tibetan Plateau using CryoSat-2 SARIn mode data. Journal of Hydrology, 2017, 544, 109-124.	2.3	130
4	Altimetry for the future: Building on 25 years of progress. Advances in Space Research, 2021, 68, 319-363.	1.2	119
5	How can remote sensing contribute in groundwater modeling?. Hydrogeology Journal, 2007, 15, 5-18.	0.9	111
6	Geoelectrical imaging of groundwater salinization in the Okavango Delta, Botswana. Journal of Applied Geophysics, 2006, 60, 126-141.	0.9	103
7	How do GPM IMERG precipitation estimates perform as hydrological model forcing? Evaluation for 300 catchments across Mainland China. Journal of Hydrology, 2019, 572, 486-500.	2.3	98
8	Combining satellite radar altimetry, SAR surface soil moisture and GRACE total storage changes for hydrological model calibration in a large poorly gauged catchment. Hydrology and Earth System Sciences, 2011, 15, 1729-1743.	1.9	94
9	Regional review: the hydrology of the Okavango Delta, Botswana—processes, data and modelling. Hydrogeology Journal, 2009, 17, 1297-1328.	0.9	85
10	Using remote sensing to regionalize local precipitation recharge rates obtained from the Chloride Method. Journal of Hydrology, 2004, 294, 241-250.	2.3	82
11	Assessing the aquatic toxicity and environmental safety of tracer compounds Rhodamine B and Rhodamine WT. Water Research, 2021, 197, 117109.	5.3	82
12	A regional coupled surface water/groundwater model of the Okavango Delta, Botswana. Water Resources Research, 2006, 42, .	1.7	81
13	Hydrogeology of the south-eastern Yucatan Peninsula: New insights from water level measurements, geochemistry, geophysics and remote sensing. Journal of Hydrology, 2010, 389, 1-17.	2.3	77
14	River monitoring from satellite radar altimetry in the Zambezi River basin. Hydrology and Earth System Sciences, 2012, 16, 2181-2192.	1.9	75
15	Transport of a decay chain in homogenous porous media: analytical solutions. Journal of Contaminant Hydrology, 2001, 49, 217-239.	1.6	72
16	Coupled flow and salinity transport modelling in semi-arid environments: The Shashe River Valley, Botswana. Journal of Hydrology, 2006, 316, 163-183.	2.3	69
17	Estimation of the evapotranspiration rate from diurnal groundwater level fluctuations in the Okavango Delta, Botswana. Journal of Hydrology, 2004, 288, 344-355.	2.3	63
18	Calculation of the temporal gravity variation from spatially variable water storage change in soils and aquifers. Journal of Hydrology, 2009, 365, 302-309.	2.3	63

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19	Assimilation of radar altimetry to a routing model of the Brahmaputra River. Water Resources Research, 2013, 49, 4807-4816.	1.7	60
20	Measuring water level in rivers and lakes from lightweight Unmanned Aerial Vehicles. Journal of Hydrology, 2017, 548, 237-250.	2.3	60
21	Salt transport on islands in the Okavango Delta: Numerical investigations. Advances in Water Resources, 2006, 29, 11-29.	1.7	59
22	Technical note: Bathymetry observations of inland water bodies using a tethered single-beam sonar controlled by an unmanned aerial vehicle. Hydrology and Earth System Sciences, 2018, 22, 4165-4181.	1.9	59
23	Real-time remote sensing driven river basin modeling using radar altimetry. Hydrology and Earth System Sciences, 2011, 15, 241-254.	1.9	57
24	Evaluation of Sentinel-3 SRAL SAR altimetry over Chinese rivers. Remote Sensing of Environment, 2020, 237, 111546.	4.6	57
25	Okavango Delta Islands: Interaction between density-driven flow and geochemical reactions under evapo-concentration. Journal of Hydrology, 2007, 335, 389-405.	2.3	55
26	Incorporating diffuse radiation into a light use efficiency and evapotranspiration model: An 11-year study in a high latitude deciduous forest. Agricultural and Forest Meteorology, 2018, 248, 479-493.	1.9	53
27	Unmanned Aerial System (UAS) observations of water surface elevation in a small stream: Comparison of radar altimetry, LIDAR and photogrammetry techniques. Remote Sensing of Environment, 2020, 237, 111487.	4.6	53
28	Simultaneous calibration of multiple hydrodynamic model parameters using satellite altimetry observations of water surface elevation in the Songhua River. Remote Sensing of Environment, 2019, 225, 229-247.	4.6	51
29	Hydrologic Dynamics of the Ground-Water-Dependent Sian Ka'an Wetlands, Mexico, Derived from InSAR and SAR Data. Wetlands, 2010, 30, 1-13.	0.7	49
30	Using timeâ€lapse gravity for groundwater model calibration: An application to alluvial aquifer storage. Water Resources Research, 2011, 47, .	1.7	49
31	Application of CryoSat-2 altimetry data for river analysis and modelling. Hydrology and Earth System Sciences, 2017, 21, 751-764.	1.9	49
32	CryoSat-2 Altimetry Applications over Rivers and Lakes. Water (Switzerland), 2017, 9, 211.	1.2	48
33	Large-scale 3-D modeling by integration of resistivity models and borehole data through inversion. Hydrology and Earth System Sciences, 2014, 18, 4349-4362.	1.9	47
34	CryoSat-2 radar altimetry for monitoring freshwater resources of China. Remote Sensing of Environment, 2017, 200, 125-139.	4.6	47
35	Multi-Objective Optimization for Analysis of Changing Trade-Offs in the Nepalese Water–Energy–Food Nexus with Hydropower Development. Water (Switzerland), 2017, 9, 162.	1.2	47
36	WHAT-IF: an open-source decision support tool for water infrastructure investment planning within the water–energy–food–climate nexus. Hydrology and Earth System Sciences, 2019, 23, 4129-4152.	1.9	47

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37	Plant uptake of NaCl in relation to enzyme kinetics and toxic effects. Environmental and Experimental Botany, 2008, 64, 1-7.	2.0	45
38	Integrated flow and temperature modeling at the catchment scale. Journal of Hydrology, 2013, 495, 238-251.	2.3	45
39	Assessing climate change impacts on the Iberian power system using a coupled water-power model. Climatic Change, 2014, 126, 351-364.	1.7	44
40	Sentinel-3 radar altimetry for river monitoring – a catchment-scale evaluation of satellite water surface elevation from Sentinel-3A and Sentinel-3B. Hydrology and Earth System Sciences, 2021, 25, 333-357.	1.9	44
41	The micro-topography of the wetlands of the Okavango Delta, Botswana. Earth Surface Processes and Landforms, 2005, 30, 27-39.	1.2	43
42	High spatial resolution monitoring land surface energy, water and CO2 fluxes from an Unmanned Aerial System. Remote Sensing of Environment, 2019, 229, 14-31.	4.6	43
43	The role of remote sensing in hydrological modelling of the Okavango Delta, Botswana. Journal of Environmental Management, 2009, 90, 2252-2260.	3.8	39
44	Using Stochastic Dynamic Programming to Support Water Resources Management in the Ziya River Basin, China. Journal of Water Resources Planning and Management - ASCE, 2015, 141, .	1.3	38
45	Joint optimization of regional water-power systems. Advances in Water Resources, 2016, 92, 200-207.	1.7	37
46	Informing a hydrological model of the Ogooué with multi-mission remote sensing data. Hydrology and Earth System Sciences, 2018, 22, 1453-1472.	1.9	37
47	Hydrogeophysical exploration of three-dimensional salinity anomalies with the time-domain electromagnetic method (TDEM). Journal of Hydrology, 2010, 380, 318-329.	2.3	36
48	Systems Analysis Approach to the Design of Efficient Water Pricing Policies under the EU Water Framework Directive. Journal of Water Resources Planning and Management - ASCE, 2013, 139, 574-582.	1.3	36
49	Sequential and joint hydrogeophysical inversion using a field-scale groundwater model with ERT and TDEM data. Hydrology and Earth System Sciences, 2013, 17, 4043-4060.	1.9	36
50	Evaluation of multi-mode CryoSat-2 altimetry data over the Po River against in situ data and a hydrodynamic model. Advances in Water Resources, 2018, 112, 17-26.	1.7	36
51	Characterization and Quantification of Pneumatic Fracturing Effects at a Clay Till Site. Environmental Science & Technology, 2008, 42, 570-576.	4.6	35
52	Evaluation of Remotely Sensed Precipitation and Its Performance for Streamflow Simulations in Basins of the Southeast Tibetan Plateau. Journal of Hydrometeorology, 2015, 16, 2577-2594.	0.7	33
53	Joint optimization of water allocation and water quality management in Haihe River basin. Science of the Total Environment, 2019, 654, 72-84.	3.9	33
54	Influence of local geoid variation on water surface elevation estimates derived from multi-mission altimetry for Lake Namco. Remote Sensing of Environment, 2019, 221, 65-79.	4.6	31

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55	Measuring gravity change caused by water storage variations: Performance assessment under controlled conditions. Journal of Hydrology, 2011, 402, 60-70.	2.3	29
56	The influence of conceptual model uncertainty on management decisions for a groundwater-dependent ecosystem in karst. Journal of Hydrology, 2011, 400, 24-40.	2.3	28
57	Performance evaluation of groundwater model hydrostratigraphy from airborne electromagnetic data and lithological borehole logs. Hydrology and Earth System Sciences, 2015, 19, 3875-3890.	1.9	28
58	A data assimilation system combining CryoSat-2 data and hydrodynamic river models. Journal of Hydrology, 2018, 557, 197-210.	2.3	28
59	Unmanned Aerial System multispectral mapping for low and variable solar irradiance conditions: Potential of tensor decomposition. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 155, 58-71.	4.9	28
60	Enabling the Use of Earth Observation Data for Integrated Water Resource Management in Africa with the Water Observation and Information System. Remote Sensing, 2014, 6, 7819-7839.	1.8	26
61	Hydroeconomic optimization of reservoir management under downstream water quality constraints. Journal of Hydrology, 2015, 529, 1679-1689.	2.3	26
62	Mapping Root-Zone Soil Moisture Using a Temperature–Vegetation Triangle Approach with an Unmanned Aerial System: Incorporating Surface Roughness from Structure from Motion. Remote Sensing, 2018, 10, 1978.	1.8	26
63	Coupled hydrogeophysical inversion using time″apse magnetic resonance sounding and time″apse gravity data for hydraulic aquifer testing: Will it work in practice?. Water Resources Research, 2012, 48, .	1.7	25
64	Calibrating a Salt Water Intrusion Model with Timeâ€Đomain Electromagnetic Data. Ground Water, 2013, 51, 385-397.	0.7	23
65	Optimization of regional water - power systems under cooling constraints and climate change. Energy, 2018, 155, 484-494.	4.5	23
66	Operational reservoir inflow forecasting with radar altimetry: the Zambezi case study. Hydrology and Earth System Sciences, 2014, 18, 997-1007.	1.9	22
67	Spatial mapping of submerged cave systems by means of airborne electromagnetics: an emerging technology to support protection of endangered karst aquifers. Near Surface Geophysics, 2009, 7, 613-627.	0.6	21
68	Water level observations from unmanned aerial vehicles for improving estimates of surface water–groundwater interaction. Hydrological Processes, 2017, 31, 4371-4383.	1.1	21
69	A Droneâ€Borne Method to Jointly Estimate Discharge and Manning's Roughness of Natural Streams. Water Resources Research, 2021, 57, e2020WR028266.	1.7	21
70	Airborne and groundâ€based transient electromagnetic mapping of groundwater salinity in the Machile–Zambezi Basin, southwestern Zambia. Near Surface Geophysics, 2015, 13, 383-396.	0.6	20
71	A Bigger Picture of how the Tibetan Lakes Have Changed Over the Past Decade Revealed by CryoSatâ€⊋ Altimetry. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033161.	1.2	20
72	On the Performance of Sentinelâ€3 Altimetry Over New Reservoirs: Approaches to Determine Onboard A Priori Elevation. Geophysical Research Letters, 2020, 47, e2020GL088770.	1.5	19

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73	Estimating resource costs of compliance with EU WFD ecological status requirements at the river basin scale. Journal of Hydrology, 2011, 396, 197-214.	2.3	18
74	Polar Drift in the 1990s Explained by Terrestrial Water Storage Changes. Geophysical Research Letters, 2021, 48, e2020GL092114.	1.5	17
75	Impacts of water resources management on land water storage in the North China Plain: Insights from multi-mission earth observations. Journal of Hydrology, 2021, 603, 126933.	2.3	17
76	Calibrating Vadose Zone Models with Time‣apse Gravity Data. Vadose Zone Journal, 2011, 10, 1034-1044.	1.3	16
77	Operational river discharge forecasting in poorly gauged basins: the Kavango River basin case study. Hydrology and Earth System Sciences, 2015, 19, 1469-1485.	1.9	16
78	Optimization of Multipurpose Reservoir Systems Using Power Market Models. Journal of Water Resources Planning and Management - ASCE, 2015, 141, .	1.3	16
79	Combining Clustering Methods With MPS to Estimate Structural Uncertainty for Hydrological Models. Frontiers in Earth Science, 2019, 7, .	0.8	16
80	Optimizing water resources allocation in the Haihe River basin under groundwater sustainability constraints. Journal of Chinese Geography, 2019, 29, 935-958.	1.5	16
81	Using radar altimetry to update a large-scale hydrological model of the Brahmaputra river basin. Hydrology Research, 2014, 45, 148-164.	1.1	15
82	Informing hydrological models of poorly gauged river catchments – A parameter regionalization and calibration approach. Journal of Hydrology, 2020, 587, 124999.	2.3	15
83	Variable density groundwater flow: from modelling to applications. , 2010, , 87-118.		14
84	The cost of ending groundwater overdraft on the North China Plain. Hydrology and Earth System Sciences, 2016, 20, 771-785.	1.9	14
85	Unmanned aerial vehicle observations of water surface elevation and bathymetry in the cenotes and lagoons of the Yucatan Peninsula, Mexico. Hydrogeology Journal, 2018, 26, 2213-2228.	0.9	14
86	Phytotoxicity of salt and plant salt uptake: Modeling ecohydrological feedback mechanisms. Water Resources Research, 2008, 44, .	1.7	13
87	The Value of Distributed High-Resolution UAV-Borne Observations of Water Surface Elevation for River Management and Hydrodynamic Modeling. Remote Sensing, 2020, 12, 1171.	1.8	13
88	Mapping localised freshwater anomalies in the brackish paleo-lake sediments of the Machile–Zambezi Basin with transient electromagnetic sounding, geoelectrical imaging and induced polarisation. Journal of Applied Geophysics, 2015, 123, 81-92.	0.9	12
89	Optimizing Wellfield Operation in a Variable Power Price Regime. Ground Water, 2016, 54, 92-103.	0.7	12
90	Regional-scale airborne electromagnetic surveying of the Yucatan karst aquifer (Mexico): geological and hydrogeological interpretation. Hydrogeology Journal, 2012, 20, 1407-1425.	0.9	11

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91	Modeling ecohydrological impacts of land management and water use in the Silver Creek basin, Idaho. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 487-507.	1.3	11
92	Hyperspectral reflectance measurements from UAS under intermittent clouds: Correcting irradiance measurements for sensor tilt. Remote Sensing of Environment, 2021, 267, 112719.	4.6	11
93	Evaluating terrestrial water storage variations from regionally constrained GRACE mascon data and hydrological models over Southern Africa – preliminary results. International Journal of Remote Sensing, 2010, 31, 3899-3912.	1.3	9
94	Well Field Management Using Multi-Objective Optimization. Water Resources Management, 2013, 27, 629-648.	1.9	9
95	Probabilistic predictions using a groundwater model informed with airborne EM data. Advances in Water Resources, 2017, 103, 86-98.	1.7	9
96	A Regional Scale Hydrostratigraphy Generated from Geophysical Data of Varying Age, Type, and Quality. Water Resources Management, 2019, 33, 539-553.	1.9	9
97	Benefits of Cooperation in Transnational Water-Energy Systems. Journal of Water Resources Planning and Management - ASCE, 2019, 145, .	1.3	8
98	Temporal interpolation of land surface fluxes derived from remote sensing – results with an unmanned aerial system. Hydrology and Earth System Sciences, 2020, 24, 3643-3661.	1.9	8
99	Calibrating 1D hydrodynamic river models in the absence of cross-section geometry using satellite observations of water surface elevation and river width. Hydrology and Earth System Sciences, 2021, 25, 6359-6379.	1.9	8
100	The use of Time Domain Electromagnetic method and Continuous Vertical Electrical Sounding to map groundwater salinity in the Barotse sub-basin, Zambia. Physics and Chemistry of the Earth, 2011, 36, 798-805.	1.2	7
101	Multi-objective optimization of the management of a waterworks using an integrated well field model. Hydrology Research, 2012, 43, 430-444.	1.1	7
102	Hydraulic Model Calibration Using CryoSatâ€2 Observations in the Zambezi Catchment. Water Resources Research, 2021, 57, e2020WR029261.	1.7	7
103	On the Contribution of Satellite Altimetry-Derived Water Surface Elevation to Hydrodynamic Model Calibration in the Han River. Remote Sensing, 2020, 12, 4087.	1.8	6
104	A convex programming framework for optimal and bounded suboptimal well field management. Water Resources Research, 2012, 48, .	1.7	4
105	Optimization of Well Field Operation: Case Study of SÃ ndersÃ, Waterworks, Denmark. Journal of Water Resources Planning and Management - ASCE, 2013, 139, 109-116.	1.3	4
106	Estimating Reservoir Release Using Multi-Source Satellite Datasets and Hydrological Modeling Techniques. Remote Sensing, 2022, 14, 815.	1.8	3
107	Terrestrial Water Storage from GRACE and Satellite Altimetry in the Okavango Delta (Botswana). International Association of Geodesy Symposia, 2010, , 521-526.	0.2	2
108	Challenges with Regard to Unmanned Aerial Systems (UASs) Measurement of River Surface Velocity Using Doppler Radar. Remote Sensing, 2022, 14, 1277.	1.8	2

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109	The Impact of Assuming Perfect Foresight in Hydroeconomic Analysis of Yellow River Diversions to the Hai River Basin, China: A Framework Combining Linear Programming and Model Predictive Control. Frontiers in Water, 2021, 3, .	1.0	1
110	Automatic Generation of Groundwater Model Hydrostratigraphy from AEM Resistivity and Boreholes. , 2014, , .		1
111	The Impact of Assuming Perfect Foresight When Planning Infrastructure in the Water–Energy–Food Nexus. Frontiers in Water, 2021, 3, .	1.0	1