Bridget R Scanlon

List of Publications by Citations

181 papers	15,515 citations	65 h-index	122 g-index
195 ext. papers	17,985 ext. citations	6 avg, IF	6.89 L-index

#	Paper	IF	Citations
181	Ground water and climate change. *Nature Climate Change*, **2013**, 3, 322-329	21.4	1116
180	Choosing appropriate techniques for quantifying groundwater recharge. *Hydrogeology Journal*, **2002**, 10, 18-39	3.1	991
179	Groundwater depletion and sustainability of irrigation in the US High Plains and Central Valley. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 9320-5	11.5	717
178	Global synthesis of groundwater recharge in semiarid and arid regions. *Hydrological Processes*, **2006** , 20, 3335-3370	3.3	697
177	Global impacts of conversions from natural to agricultural ecosystems on water resources: Quantity versus quality. *Water Resources Research*, **2007**, 43,	5.4	426
176	Impact of land use and land cover change on groundwater recharge and quality in the southwestern US. *Global Change Biology*, **2005**, 11, 1577-1593	11.4	414
175	Impact of water withdrawals from groundwater and surface water on continental water storage variations. *Journal of Geodynamics*, **2012**, 59-60, 143-156	2.2	384
174	Water use for Shale-gas production in Texas, U.S. *Environmental Science & Technology*, **2012**, 46, 3580-6	10.3	352
173	Ecohydrology of water-limited environments: A scientific vision. *Water Resources Research*, **2006**, 42,	5.4	348
172	Uncertainty in evapotranspiration from land surface modeling, remote sensing, and GRACE satellites. *Water Resources Research*, **2014**, 50, 1131-1151	5.4	300
171	Can we simulate regional groundwater flow in a karst system using equivalent porous media models? Case study, Barton Springs Edwards aquifer, USA. *Journal of Hydrology*, **2003**, 276, 137-158	6	291
170	GRACE satellite monitoring of large depletion in water storage in response to the 2011 drought in Texas. *Geophysical Research Letters*, **2013**, 40, 3395-3401	4.9	255
169	Estimating Groundwater Recharge **2010**,		251
168	Ground referencing GRACE satellite estimates of groundwater storage changes in the California Central Valley, USA. *Water Resources Research*, **2012**, 48,	5.4	250
167	Global models underestimate large decadal declining and rising water storage trends relative to GRACE satellite data. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E1080-E1089	11.5	238
166	Global evaluation of new GRACE mascon products for hydrologic applications. *Water Resources Research*, **2016**, 52, 9412-9429	5.4	225
165	Daily gridded meteorological variables in Brazil (1980–2013). *International Journal of Climatology*, **2016**, 36, 2644-2659	3.5	218

164	Implications of projected climate change for groundwater recharge in the western United States. *Journal of Hydrology*, **2016**, 534, 124-138	6	215
163	GRACE Hydrological estimates for small basins: Evaluating processing approaches on the High Plains Aquifer, USA. *Water Resources Research*, **2010**, 46,	5.4	211
162	Use of flow modeling to assess sustainability of groundwater resources in the North China Plain. *Water Resources Research*, **2013**, 49, 159-175	5.4	204
161	A global data set of the extent of irrigated land from 1900 to 2005. *Hydrology and Earth System Sciences*, **2015**, 19, 1521-1545	5.5	202
160	Comparison of water use for hydraulic fracturing for unconventional oil and gas versus conventional oil. *Environmental Science & Technology*, **2014**, 48, 12386-93	10.3	183
159	Sixty years of global progress in managed aquifer recharge. *Hydrogeology Journal*, **2019**, 27, 1-30	3.1	165
158	Local and global factors controlling water-energy balances within the Budyko framework. *Geophysical Research Letters*, **2013**, 40, 6123-6129	4.9	155
157	Have GRACE satellites overestimated groundwater depletion in the Northwest India Aquifer?. *Scientific Reports*, **2016**, 6, 24398	4.9	150
156	Source and fate of hydraulic fracturing water in the Barnett Shale: a historical perspective. *Environmental Science & Technology*, **2014**, 48, 2464-71	10.3	149
155	Global analysis of spatiotemporal variability in merged total water storage changes using multiple GRACE products and global hydrological models. *Remote Sensing of Environment*, **2017**, 192, 198-216	13.2	148
154	Global analysis of approaches for deriving total water storage changes from GRACE satellites. *Water Resources Research*, **2015**, 51, 2574-2594	5.4	144
153	Widespread natural perchlorate in unsaturated zones of the southwest United States. *Environmental Science & Technology*, **2007**, 41, 4522-8	10.3	137
152	Comparison of seasonal terrestrial water storage variations from GRACE with groundwater-level measurements from the High Plains Aquifer (USA). *Geophysical Research Letters*, **2007**, 34,	4.9	136
151	The food-energy-water nexus: Transforming science for society. *Water Resources Research*, **2017**, 53, 3550-3556	5.4	135
150	Evaluation of groundwater storage monitoring with the GRACE satellite: Case study of the High Plains aquifer, central United States. *Water Resources Research*, **2009**, 45,	5.4	130
149	Hydrogeochemical comparison and effects of overlapping redox zones on groundwater arsenic near the Western (Bhagirathi sub-basin, India) and Eastern (Meghna sub-basin, Bangladesh) margins of the Bengal Basin. *Journal of Contaminant Hydrology*, **2008**, 99, 31-48	3.9	124
148	Evaluation of moisture flux from chloride data in desert soils. *Journal of Hydrology*, **1991**, 128, 137-156	6	122
147	Ecological controls on water-cycle response to climate variability in deserts. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 6033-8	11.5	118

146	Potential climate change effects on groundwater recharge in the High Plains Aquifer, USA. *Water Resources Research*, **2013**, 49, 3936-3951	5.4	116
145	Field study of spatial variability in unsaturated flow beneath and adjacent to playas. *Water Resources Research*, **1997**, 33, 2239-2252	5.4	113
144	Variations in flow and transport in thick desert vadose zones in response to paleoclimatic forcing (0–90 kyr): Field measurements, modeling, and uncertainties. *Water Resources Research*, **2003**, 39,	5.4	112
143	Elevated arsenic in deeper groundwater of the western Bengal basin, India: Extent and controls from regional to local scale. *Applied Geochemistry*, **2011**, 26, 600-613	3.5	109
142	Estimating groundwater recharge in a cold desert environment in northern China using chloride. *Hydrogeology Journal*, **2008**, 16, 893-910	3.1	107
141	Water and heat fluxes in desert soils: 2. Numerical simulations. *Water Resources Research*, **1994**, 30, 721-733	5.4	103
140	Impacts of soil conservation on groundwater recharge in the semi-arid Loess Plateau, China. *Hydrogeology Journal*, **2011**, 19, 865-875	3.1	99
139	How can Big Data and machine learning benefit environment and water management: a survey of methods, applications, and future directions. *Environmental Research Letters*, **2019**, 14, 073001	6.2	98
138	Hydrologic issues in arid, unsaturated systems and implications for contaminant transport. *Reviews of Geophysics*, **1997**, 35, 461-490	23.1	96
137	Assessing controls on diffuse groundwater recharge using unsaturated flow modeling. *Water Resources Research*, **2005**, 41,	5.4	95
136	Intercode comparisons for simulating water balance of surficial sediments in semiarid regions. *Water Resources Research*, **2002**, 38, 59-1-59-16	5.4	94
135	Observed controls on resilience of groundwater to climate variability in sub-Saharan Africa. *Nature*, **2019**, 572, 230-234	50.4	92
134	Groundwater Storage Changes: Present Status from GRACE Observations. *Surveys in Geophysics*, **2016**, 37, 397-417	7.6	91
133	Water Issues Related to Transitioning from Conventional to Unconventional Oil Production in the Permian Basin. *Environmental Science & Technology*, **2017**, 51, 10903-10912	10.3	91
132	GRACE water storage estimates for the Middle East and other regions with significant reservoir and lake storage. *Hydrology and Earth System Sciences*, **2013**, 17, 4817-4830	5.5	90
131	South-to-North Water Diversion stabilizing Beijing's groundwater levels. *Nature Communications*, **2020**, 11, 3665	17.4	90
130	GRACE satellite observed hydrological controls on interannual and seasonal variability in surface greenness over mainland Australia. *Journal of Geophysical Research G: Biogeosciences*, **2014**, 119, 2245-2260	3.7	89
129	Uncertainties in estimating water fluxes and residence times using environmental tracers in an arid unsaturated zone. *Water Resources Research*, **2000**, 36, 395-409	5.4	88

128	Elevated naturally occurring arsenic in a semiarid oxidizing system, Southern High Plains aquifer, Texas, USA. *Applied Geochemistry*, **2009**, 24, 2061-2071	3.5	86
127	Introduction to special section on Impacts of Land Use Change on Water Resources. *Water Resources Research*, **2009**, 45,	5.4	81
126	Soil Water Content Monitoring Using Electromagnetic Induction. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2003**, 129, 1028-1039	3.4	79
125	Evaluation of liquid and vapor water flow in desert soils based on chlorine 36 and tritium tracers and nonisothermal flow simulations. *Water Resources Research*, **1992**, 28, 285-297	5.4	79
124	Enhancing drought resilience with conjunctive use and managed aquifer recharge in California and Arizona. *Environmental Research Letters*, **2016**, 11, 035013	6.2	79
123	Recent La Plata basin drought conditions observed by satellite gravimetry. *Journal of Geophysical Research*, **2010**, 115,		76
122	Drought and the water–energy nexus in Texas. *Environmental Research Letters*, **2013**, 8, 045033	6.2	75
121	. *Vadose Zone Journal*, **2005**, 4, 55-71	2.7	73
120	Solute chemistry and arsenic fate in aquifers between the Himalayan foothills and Indian craton (including central Gangetic plain): Influence of geology and geomorphology. *Geochimica Et Cosmochimica Acta*, **2012**, 90, 283-302	5.5	72
119	Relative importance of climate and land surface changes on hydrologic changes in the US Midwest since the 1930s: Implications for biofuel production. *Journal of Hydrology*, **2013**, 497, 110-120	6	67
118	Long-term groundwater storage change in Victoria, Australia from satellite gravity and in situ observations. *Global and Planetary Change*, **2016**, 139, 56-65	4.2	66
117	Will water scarcity in semiarid regions limit hydraulic fracturing of shale plays?. *Environmental Research Letters*, **2014**, 9, 124011	6.2	66
116	Energy/water budgets and productivity of the typical croplands irrigated with groundwater and surface water in the North China Plain. *Agricultural and Forest Meteorology*, **2013**, 181, 133-142	5.8	64
115	Hydrologic implications of GRACE satellite data in the Colorado River Basin. *Water Resources Research*, **2015**, 51, 9891-9903	5.4	64
114	Probabilistic analysis of the effects of climate change on groundwater recharge. *Water Resources Research*, **2010**, 46,	5.4	63
113	Combining Physically Based Modeling and Deep Learning for Fusing GRACE Satellite Data: Can We Learn From Mismatch?. *Water Resources Research*, **2019**, 55, 1179-1195	5.4	63
112	Can we beneficially reuse produced water from oil and gas extraction in the U.S.?. *Science of the Total Environment*, **2020**, 717, 137085	10.2	61
111	Semiarid unsaturated zone chloride profiles: Archives of past land use change impacts on water resources in the southern High Plains, United States. *Water Resources Research*, **2007**, 43,	5.4	61

110	El Niño Southern Oscillation and Pacific Decadal Oscillation impacts on precipitation in the southern and central United States: Evaluation of spatial distribution and predictions. *Water Resources Research*, **2007**, 43,	5.4	60
109	Single-well push-pull test for assessing potential impacts of CO2 leakage on groundwater quality in a shallow Gulf Coast aquifer in Cranfield, Mississippi. *International Journal of Greenhouse Gas Control*, **2013**, 18, 375-387	4.2	58
108	Relationship between geomorphic settings and unsaturated flow in an arid setting. *Water Resources Research*, **1999**, 35, 983-999	5.4	58
107	Impacts of thickening unsaturated zone on groundwater recharge in the North China Plain. *Journal of Hydrology*, **2016**, 537, 260-270	6	58
106	Water and heat fluxes in desert soils: 1. Field studies. *Water Resources Research*, **1994**, 30, 709-719	5.4	56
105	Performance evaluation of rainfall estimates by TRMM Multi-satellite Precipitation Analysis 3B42V6 and V7 over Brazil. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 9426-9436	4.4	55
104	Theme issue on groundwater recharge. *Hydrogeology Journal*, **2002**, 10, 3-4	3.1	52
103	Tracking Seasonal Fluctuations in Land Water Storage Using Global Models and GRACE Satellites. *Geophysical Research Letters*, **2019**, 46, 5254-5264	4.9	50
102	Evapotranspiration Estimation for Tibetan Plateau Headwaters Using Conjoint Terrestrial and Atmospheric Water Balances and Multisource Remote Sensing. *Water Resources Research*, **2019**, 55, 8608-8630	5.4	50
101	Groundwater Recharge through Vertisols: Irrigated Cropland vs. Natural Land, Israel. *Vadose Zone Journal*, **2011**, 10, 662-674	2.7	49
100	Chemical similarities among physically distinct spring types in a karst terrain. *Journal of Hydrology*, **1987**, 89, 259-279	6	48
99	Inventories and mobilization of unsaturated zone sulfate, fluoride, and chloride related to land use change in semiarid regions, southwestern United States and Australia. *Water Resources Research*, **2009**, 45,	5.4	47
98	Groundwater recharge in natural dune systems and agricultural ecosystems in the Thar Desert region, Rajasthan, India. *Hydrogeology Journal*, **2010**, 18, 959-972	3.1	46
97	Impact of agroecosystems on groundwater resources in the Central High Plains, USA. *Agriculture, Ecosystems and Environment*, **2010**, 139, 700-713	5.7	45
96	Impacts of land use change on nitrogen cycling archived in semiarid unsaturated zone nitrate profiles, southern High Plains, Texas. *Environmental Science & Technology*, **2008**, 42, 7566-72	10.3	45
95	A new drought index that considers the joint effects of climate and land surface change. *Water Resources Research*, **2017**, 53, 3262-3278	5.4	44
94	Calibration and evaluation of a semi-distributed watershed model of Sub-Saharan Africa using GRACE data. *Hydrology and Earth System Sciences*, **2012**, 16, 3083-3099	5.5	44
93	Reservoir storage and hydrologic responses to droughts in the Paraná River basin, south-eastern Brazil. *Hydrology and Earth System Sciences*, **2016**, 20, 4673-4688	5.5	44

92	Impacts of varying agricultural intensification on crop yield and groundwater resources: comparison of the North China Plain and US High Plains. *Environmental Research Letters*, **2015**, 10, 044013	6.2	42
91	Deriving theoretical boundaries to address scale dependencies of triangle models for evapotranspiration estimation. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		42
90	Sugarcane land use and water resources assessment in the expansion area in Brazil. *Journal of Cleaner Production*, **2016**, 133, 1318-1327	10.3	39
89	Evaluation of Electromagnetic Induction as a Reconnaissance Technique to Characterize Unsaturated Flow in an Arid Setting. *Ground Water*, **1999**, 37, 296-304	2.4	33
88	Impact of artificial recharge on dissolved noble gases in groundwater in California. *Environmental Science & Technology*, **2008**, 42, 1017-23	10.3	31
87	Managing the Increasing Water Footprint of Hydraulic Fracturing in the Bakken Play, United States. *Environmental Science & Technology*, **2016**, 50, 10273-81	10.3	30
86	Managing Basin-Scale Fluid Budgets to Reduce Injection-Induced Seismicity from the Recent U.S. Shale Oil Revolution. *Seismological Research Letters*, **2019**, 90, 171-182	3	29
85	What caused the spring intensification and winter demise of the 2011 drought over Texas?. *Climate Dynamics*, **2016**, 47, 3077-3090	4.2	28
84	Controls on water use for thermoelectric generation: case study Texas, US. *Environmental Science & Technology*, **2013**, 47, 11326-34	10.3	27
83	Using data assimilation to identify diffuse recharge mechanisms from chemical and physical data in the unsaturated zone. *Water Resources Research*, **2009**, 45,	5.4	27
82	Long-term groundwater recharge rates across India by in situ measurements. *Hydrology and Earth System Sciences*, **2019**, 23, 711-722	5.5	26
81	Will Water Issues Constrain Oil and Gas Production in the United States?. *Environmental Science & Technology*, **2020**, 54, 3510-3519	10.3	26
80	Using GRACE Satellite Gravimetry for Assessing Large-Scale Hydrologic Extremes. *Remote Sensing*, **2017**, 9, 1287	5	26
79	Controls on high and low groundwater arsenic on the opposite banks of the lower reaches of River Ganges, Bengal basin, India. *Science of the Total Environment*, **2018**, 645, 1371-1387	10.2	26
78	Evaluation of noble gas recharge temperatures in a shallow unconfined aquifer. *Ground Water*, **2009**, 47, 646-59	2.4	26
77	Moisture and solute flux along preferred pathways characterized by fissured sediments in desert soils. *Journal of Contaminant Hydrology*, **1992**, 10, 19-46	3.9	26
76	Physical Controls on Hydrochemical Variability in the Inner Bluegrass Karst Region of Central Kentuckya. *Ground Water*, **1989**, 27, 639-646	2.4	25
75	Unsaturated zone arsenic distribution and implications for groundwater contamination. *Environmental Science & Technology*, **2007**, 41, 6914-9	10.3	24

74	Long-term increase in diffuse groundwater recharge following expansion of rainfed cultivation in the Sahel, West Africa. *Hydrogeology Journal*, **2014**, 22, 1293-1305	3.1	23
73	Mapping groundwater recharge in Africa from ground observations and implications for water security. *Environmental Research Letters*, **2021**, 16, 034012	6.2	21
72	Field test of the superconducting gravimeter as a hydrologic sensor. *Ground Water*, **2012**, 50, 442-9	2.4	20
71	Effects of irrigated agroecosystems: 1. Quantity of soil water and groundwater in the southern High Plains, Texas. *Water Resources Research*, **2010**, 46,	5.4	20
70	Comparison of Groundwater Storage Changes From GRACE Satellites With Monitoring and Modeling of Major U.S. Aquifers. *Water Resources Research*, **2020**, 56, e2020WR027556	5.4	19
69	Projecting the Water Footprint Associated with Shale Resource Production: Eagle Ford Shale Case Study. *Environmental Science & Technology*, **2017**, 51, 14453-14461	10.3	19
68	Relationships between groundwater contamination and major-ion chemistry in a karst aquifer. *Journal of Hydrology*, **1990**, 119, 271-291	6	19
67	Residual soil nitrate in irrigated Southern High Plains cotton fields and Ogallala groundwater nitrate. *Journal of Soils and Water Conservation*, **2009**, 64, 98-104	2.2	17
66	Biofuel-water-land nexus in the last agricultural frontier region of the Brazilian Cerrado. *Applied Energy*, **2018**, 231, 1330-1345	10.7	17
65	Mobilization of naturally occurring perchlorate related to land-use change in the southern High Plains, Texas. *Environmental Science & Technology*, **2008**, 42, 8648-53	10.3	16
64	The Texas Soil Observation Network:A Comprehensive Soil Moisture Dataset for Remote Sensing and Land Surface Model Validation. *Vadose Zone Journal*, **2019**, 18, 1-20	2.7	16
63	Global groundwater: from scarcity to security through sustainability and solutions **2021**, 3-20		16
62	Evaluation of methods of estimating recharge in semiarid and arid regions in the southwestern U.S.. *Water Science and Application*, **2004**, 235-254		15
61	Fingerprinting groundwater salinity sources in the Gulf Coast Aquifer System, USA. *Hydrogeology Journal*, **2018**, 26, 197-213	3.1	15
60	Impact of deep plowing on groundwater recharge in a semiarid region: Case study, High Plains, Texas. *Water Resources Research*, **2008**, 44,	5.4	14
59	Soil Gas Movement in Unsaturated Systems **2001**, 297-341		14
58	Representing water scarcity in future agricultural assessments. *Anthropocene*, **2017**, 18, 15-26	3.9	13
57	Sources of groundwater pumpage in a layered aquifer system in the Upper Gulf Coastal Plain, USA. *Hydrogeology Journal*, **2012**, 20, 783-796	3.1	13

56	Basin-Scale River Runoff Estimation From GRACE Gravity Satellites, Climate Models, and In Situ Observations: A Case Study in the Amazon Basin. *Water Resources Research*, **2020**, 56, e2020WR028032	5.4	13
55	Recent Trends in Water Use and Production for California Oil Production. *Environmental Science & Technology*, **2016**, 50, 7904-12	10.3	13
54	Effects of irrigated agroecosystems: 2. Quality of soil water and groundwater in the southern High Plains, Texas. *Water Resources Research*, **2010**, 46,	5.4	12
53	GRACE water storage estimates for the Middle East and other regions with significant reservoir and lake storage		12
52	Managed aquifer recharge as a drought mitigation strategy in heavily-stressed aquifers. *Environmental Research Letters*, **2021**, 16, 014046	6.2	12
51	Energy Intensity and Greenhouse Gas Emissions from Oil Production in the Eagle Ford Shale. *Energy & Fuels*, **2017**, 31, 1440-1449	4.1	11
50	Long-Term Conventional and No-Tillage Effects on Field Hydrology and Yields of a Dryland Crop Rotation. *Soil Science Society of America Journal*, **2017**, 81, 200-209	2.5	11
49	Topical Collection: Determining groundwater sustainability from long-term piezometry in Sub-Saharan Africa. *Hydrogeology Journal*, **2019**, 27, 443-446	3.1	11
48	Arsenic enrichment in unconfined sections of the southern Gulf Coast aquifer system, Texas. *Applied Geochemistry*, **2011**, 26, 421-431	3.5	11
47	Analysis of focused unsaturated flow beneath fissures in the Chihuahuan Desert, Texas, USA. *Journal of Hydrology*, **1997**, 203, 58-78	6	11
46	Reconstruction of GRACE Total Water Storage Through Automated Machine Learning. *Water Resources Research*, **2021**, 57, e2020WR028666	5.4	11
45	How much water can be captured from flood flows to store in depleted aquifers for mitigating floods and droughts? A case study from Texas, US. *Environmental Research Letters*, **2019**, 14, 054011	6.2	10
44	Long-Term Changes in Soil Organic Carbon and Nitrogen under Semiarid Tillage and Cropping Practices. *Soil Science Society of America Journal*, **2015**, 79, 1771-1781	2.5	10
43	Potential impacts of CO2 leakage on groundwater chemistry from laboratory batch experiments and field push-pull tests. *Environmental Science & Technology*, **2013**, 47, 10694-702	10.3	10
42	Bomb chlorine-36 analysis in the characterization of unsaturated flow at a proposed radioactive waste disposal facility, Chihuahuan Desert, Texas. *Nuclear Instruments & Methods in Physics Research B*, **1990**, 52, 489-492	1.2	10
41	A comparative study of historical droughts over Texas, USA and Murray-Darling Basin, Australia: Factors influencing initialization and cessation. *Global and Planetary Change*, **2017**, 149, 123-138	4.2	9
40	Groundwater Storage Changes: Present Status from GRACE Observations. *Space Sciences Series of ISSI*, **2016**, 207-227	0.1	9
39	GMD perspective: The quest to improve the evaluation of groundwater representation in continental- to global-scale models. *Geoscientific Model Development*, **2021**, 14, 7545-7571	6.3	9

38	Spatiotemporal and stratigraphic trends in salt-water disposal practices of the Permian Basin, Texas and New Mexico, United States. *Environmental Geosciences*, **2019**, 26, 107-124	1.4	9
37	Are Temperature and Precipitation Extremes Increasing over the U.S. High Plains?. *Earth Interactions*, **2012**, 16, 1-20	1.5	8
36	Role of Groundwater in Sustaining Northern Himalayan Rivers. *Geophysical Research Letters*, **2021**, 48, e2020GL092354	4.9	8
35	Mobilization of Arsenic and Other Naturally Occurring Contaminants during Managed Aquifer Recharge: A Critical Review. *Environmental Science & Technology*, **2021**, 55, 2208-2223	10.3	8
34	Hydrologic Processes in Deep Vadose Zones in Interdrainage Arid Environments. *Water Science and Application*, **2004**, 15-28		7
33	Origin of low salinity, high volume produced waters in the Wolfcamp Shale (Permian), Delaware Basin, USA. *Applied Geochemistry*, **2020**, 122, 104771	3.5	7
32	Integrating groundwater irrigation into hydrological simulation of India: Case of improving model representation of anthropogenic water use impact using GRACE. *Journal of Hydrology: Regional Studies*, **2020**, 29, 100681	3.6	7
31	Exploring groundwater and soil water storage changes across the CONUS at 12.5 km resolution by a Bayesian integration of GRACE data into W3RA. *Science of the Total Environment*, **2021**, 758, 143579	10.2	7
30	Trace Element Behavior in Methane-Rich and Methane-Free Groundwater in North and East Texas. *Ground Water*, **2018**, 56, 705-718	2.4	7
29	Response to Comment on "Comparison of Water Use for Hydraulic Fracturing for Unconventional Oil and Gas versus Conventional Oil". *Environmental Science & Technology*, **2015**, 49, 6360-1	10.3	6
28	Correction to Deriving theoretical boundaries to address scale dependencies of triangle models for evapotranspiration estimation *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		6
27	A multistep constant-head borehole test to determine field saturated hydraulic conductivity of layered soils. *Advances in Water Resources*, **1997**, 20, 45-57	4.7	6
26	Electrical Conductivity and Gamma-Ray Response to Clay, Water, and Chloride Content in Fissured Sediments, Trans-Pecos Texas. *Environmental and Engineering Geoscience*, **1998**, IV, 225-239	0.7	6
25	Field Studies and Numerical Modeling of Unsaturated Flow in the Chihuahuan Desert, Texas. *Report of Investigations - University of Texas at Austin Bureau of Economic Geology*, **1991**,	1	6
24	Multi-decadal assessment of water budget and hydrological extremes in the Tigris-Euphrates Basin using satellites, modeling, and in-situ data. *Science of the Total Environment*, **2021**, 766, 144337	10.2	6
23	Potential Economic Impacts of Environmental Flows Following a Possible Listing of Endangered Texas Freshwater Mussels. *Journal of the American Water Resources Association*, **2014**, 50, 1081-1101	2.1	5
22	A screening approach to improve water management practices in undeveloped shale plays, with application to the transboundary Eagle Ford Formation in northeast Mexico. *Journal of Environmental Management*, **2019**, 236, 146-162	7.9	5
21	Peak grain forecasts for the US High Plains amid withering waters. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 26145-26150	11.5	5

20	Effects of climate and irrigation on GRACE-based estimates of water storage changes in major US aquifers. *Environmental Research Letters*, **2021**, 16, 094009	6.2	5
19	Realizing the Potential of Satellite Gravimetry for Hydrology: Second GRACE Hydrology Workshop; Austin, Texas, 4 November 2009. *Eos*, **2010**, 91, 96	1.5	4
18	Spring discharge and thermal regime of a groundwater dependent ecosystem in an arid karst environment. *Journal of Hydrology*, **2020**, 587, 124947	6	3
17	Baseflow recession analysis in a large shale play: Climate variability and anthropogenic alterations mask effects of hydraulic fracturing. *Journal of Hydrology*, **2017**, 553, 160-171	6	3
16	Linkages between GRACE water storage, hydrologic extremes, and climate teleconnections in major African aquifers. *Environmental Research Letters*,	6.2	3
15	Assessing cumulative water impacts from shale oil and gas production: Permian Basin case study.. *Science of the Total Environment*, **2021**, 811, 152306	10.2	3
14	HESS Opinions: Improving the evaluation of groundwater representation in continental to global scale models		3
13	Datasets associated with investigating the potential for beneficial reuse of produced water from oil and gas extraction outside of the energy sector. *Data in Brief*, **2020**, 30, 105406	1.2	2
12	Response to Comments on Evaluation of Evapotranspirative Covers for Waste Containment in Arid and Semiarid Regions in the Southwestern USA *Vadose Zone Journal*, **2006**, 5, 813-814	2.7	2
11	Reply [to Comment on Field study of spatial variability in unsaturated flow beneath and adjacent to playas by Bridget R. Scanlon and Richard S. Goldsmith] *Water Resources Research*, **1999**, 35, 603-604	5.4	2
10	Spatial Variability in Unsaturated Zone Flow...and Implications for Contaminant Transport, Southern High Plains, Texas. *Report of Investigations - University of Texas at Austin Bureau of Economic Geology*, **1997**,	1	2
9	Post-Drought Groundwater Storage Recovery in California's Central Valley. *Water Resources Research*, **2021**, 57, e2021WR030352	5.4	2
8	Food-Energy-Water Nexus for Multi-scale Sustainable Development. *Resources, Conservation and Recycling*, **2020**, 154, 104565	11.9	2
7	Focus on water storage for managing climate extremes and change. *Environmental Research Letters* , **2016**, 11, 120208	6.2	2
6	A Modified Evaporation Model Indicates That the Effects of Air Warming on Global Drying Trends Have Been Overestimated. *Journal of Geophysical Research D: Atmospheres*, **2021**, 126, e2021JD035153	4.4	1
5	GRACE Satellites Enable Long-Lead Forecasts of Mountain Contributions to Streamflow in the Low-Flow Season. *Remote Sensing*, **2021**, 13, 1993	5	1
4	Combining GRACE and satellite altimetry data to detect change in sediment load to the Bohai Sea. *Science of the Total Environment*, **2021**, 151677	10.2	0
3	The annual cycle of terrestrial water storage anomalies in CMIP6 models evaluated against GRACE data. *Journal of Climate*, **2021**, 1-40	4.4	0

2	How Severe is Water Stress in the MENA Region? Insights from GRACE and GRACE-FO Satellites and Global Hydrological Modeling **2022**, 51-65	0
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