

Matt Rodell

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

150 papers	19,052 citations	63 h-index	138 g-index
167 ext. papers	21,955 ext. citations	6.1 avg, IF	6.85 L-index

#	Paper	IF	Citations
150	Achieving Breakthroughs in Global Hydrologic Science by Unlocking the Power of Multisensor, Multidisciplinary Earth Observations. <i>AGU Advances</i> , 2021 , 2, e2021AV000455	5.4	3
149	A 10 per cent increase in global land evapotranspiration from 2003 to 2019. <i>Nature</i> , 2021 , 593, 543-547	50.4	47
148	Irrigation Water Demand Sensitivity to Climate Variability Across the Contiguous United States. <i>Water Resources Research</i> , 2021 , 57, 2020WR027738	5.4	6
147	Groundwater drought: environmental controls and monitoring 2021 , 145-162		1
146	An Evaluation of Remotely Sensed and In Situ Data Sufficiency for SGMA-Scale Groundwater Studies in the Central Valley, California. <i>Journal of the American Water Resources Association</i> , 2021 , 57, 664	2.1	2
145	Applications of Gravity Recovery and Climate Experiment (GRACE) in global groundwater study 2021 , 531-543		
144	Groundwater Recharge Estimated by Land Surface Models: An Evaluation in the Conterminous United States. <i>Journal of Hydrometeorology</i> , 2021 , 22, 499-522	3.7	4
143	Data Assimilation of Terrestrial Water Storage Observations to Estimate Precipitation Fluxes: A Synthetic Experiment. <i>Remote Sensing</i> , 2021 , 13, 1223	5	2
142	Underlying Fundamentals of Kalman Filtering for River Network Modeling. <i>Journal of Hydrometeorology</i> , 2020 , 21, 453-474	3.7	5
141	Groundwater storage change detection from and GRACE-based estimates in major river basins across India. <i>Hydrological Sciences Journal</i> , 2020 , 65, 650-659	3.5	18
140	Global Climate. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, S9-S128	6.1	26
139	GRACE improves seasonal groundwater forecast initialization over the U.S. <i>Journal of Hydrometeorology</i> , 2020 , 21, 59-71	3.7	14
138	Basin-Scale River Runoff Estimation From GRACE Gravity Satellites, Climate Models, and In Situ Observations: A Case Study in the Amazon Basin. <i>Water Resources Research</i> , 2020 , 56, e2020WR028032	5.4	13
137	Global GRACE Data Assimilation for Groundwater and Drought Monitoring: Advances and Challenges. <i>Water Resources Research</i> , 2019 , 55, 7564-7586	5.4	102
136	Contributions of GRACE to understanding climate change. <i>Nature Climate Change</i> , 2019 , 5, 358-369	21.4	260
135	Multi-sensor assimilation of SMOS brightness temperature and GRACE terrestrial water storage observations for soil moisture and shallow groundwater estimation. <i>Remote Sensing of Environment</i> , 2019 , 227, 12-27	13.2	23
134	Earth observations and integrative models in support of food and water security. <i>Remote Sensing in Earth Systems Sciences</i> , 2019 , 2, 18-38	3.1	8

133	Terrestrial water storage 2019 , 41-64		6
132	Long-term, non-anthropogenic groundwater storage changes simulated by three global-scale hydrological models. <i>Scientific Reports</i> , 2019 , 9, 10746	4.9	20
131	Using Satellite-Based Vegetation Cover as Indicator of Groundwater Storage in Natural Vegetation Areas. <i>Geophysical Research Letters</i> , 2019 , 46, 8082-8092	4.9	20
130	NCA-LDAS: Overview and Analysis of Hydrologic Trends for the National Climate Assessment. <i>Journal of Hydrometeorology</i> , 2019 , 20, 1595-1617	3.7	9
129	Assimilating GRACE Into a Land Surface Model in the Presence of an Irrigation-Induced Groundwater Trend. <i>Water Resources Research</i> , 2019 , 55, 11274-11294	5.4	24
128	NCA-LDAS Land Analysis: Development and Performance of a Multisensor, Multivariate Land Data Assimilation System for the National Climate Assessment. <i>Journal of Hydrometeorology</i> , 2019 , 20, 1571-1593	3.7	44
127	The Value of Remotely Sensed Information: The Case of GRACE-Enhanced Drought Severity Index. <i>Weather, Climate, and Society</i> , 2018 , 10, 187-203	2.3	11
126	The sensitivity of US wildfire occurrence to pre-season soil moisture conditions across ecosystems. <i>Environmental Research Letters</i> , 2018 , 13,	6.2	30
125	Groundwater Storage Variations in India. <i>Springer Hydrogeology</i> , 2018 , 49-59	0.4	11
124	100 Years of Progress in Hydrology. <i>Meteorological Monographs</i> , 2018 , 59, 25.1-25.51	5.7	10
123	Groundwater Withdrawals Under Drought: Reconciling GRACE and Land Surface Models in the United States High Plains Aquifer. <i>Water Resources Research</i> , 2018 , 54, 5282-5299	5.4	29
122	Evaluation of Simulated Snow and Snowmelt Timing in the Community Land Model Using Satellite-based Products and Streamflow Observations. <i>Journal of Advances in Modeling Earth Systems</i> , 2018 , 10, 2933-2951	7.1	5
121	In Situ and GRACE-Based Groundwater Observations: Similarities, Discrepancies, and Evaluation in the High Plains Aquifer in Kansas. <i>Water Resources Research</i> , 2018 , 54, 8034-8044	5.4	9
120	Emerging trends in global freshwater availability. <i>Nature</i> , 2018 , 557, 651-659	50.4	634
119	Comparing potential recharge estimates from three Land Surface Models across the Western US. <i>Journal of Hydrology</i> , 2017 , 545, 410-423	6	14
118	Benefits and Pitfalls of GRACE Data Assimilation: a Case Study of Terrestrial Water Storage Depletion in India. <i>Geophysical Research Letters</i> , 2017 , 44, 4107-4115	4.9	66
117	Tradeoff between cost and accuracy in large-scale surface water dynamic modeling. <i>Water Resources Research</i> , 2017 , 53, 4942-4955	5.4	32
116	Comparison and Assessment of Three Advanced Land Surface Models in Simulating Terrestrial Water Storage Components over the United States. <i>Journal of Hydrometeorology</i> , 2017 , 18, 625-649	3.7	45

115	Rivers and Floodplains as Key Components of Global Terrestrial Water Storage Variability. <i>Geophysical Research Letters</i> , 2017 , 44, 10,359-10,368	4.9	61
114	Assessment of Irrigation Physics in a Land Surface Modeling Framework using Non-Traditional and Human-Practice Datasets. <i>Hydrology and Earth System Sciences</i> , 2017 , 21, 2953-2966	5.5	27
113	Groundwater rejuvenation in parts of India influenced by water-policy change implementation. <i>Scientific Reports</i> , 2017 , 7, 7453	4.9	84
112	Spatio-temporal variability of groundwater storage in India. <i>Journal of Hydrology</i> , 2017 , 544, 428-437	6	33
111	How might recharge change under projected climate change in western US?. <i>Geophysical Research Letters</i> , 2017 , 44, 10407-10418	4.9	26
110	The Future of Earth Observation in Hydrology. <i>Hydrology and Earth System Sciences</i> , 2017 , 21, 3879-3914	5.5	235
109	State of the Climate in 2016. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, Si-S280	6.1	112
108	Estimating Snow Water Storage in North America Using CLM4, DART, and Snow Radiance Data Assimilation. <i>Journal of Hydrometeorology</i> , 2016 , 17, 2853-2874	3.7	26
107	Assimilation of gridded terrestrial water storage observations from GRACE into a land surface model. <i>Water Resources Research</i> , 2016 , 52, 4164-4183	5.4	72
106	Groundwater Storage Changes: Present Status from GRACE Observations. <i>Space Sciences Series of ISSI</i> , 2016 , 207-227	0.1	9
105	Reply to comment by Sahoo et al. on Quantifying renewable groundwater stress with GRACE. <i>Water Resources Research</i> , 2016 , 52, 4188-4192	5.4	6
104	Implications of projected climate change for groundwater recharge in the western United States. <i>Journal of Hydrology</i> , 2016 , 534, 124-138	6	215
103	Groundwater Storage Changes: Present Status from GRACE Observations. <i>Surveys in Geophysics</i> , 2016 , 37, 397-417	7.6	91
102	Evaluation of the Snow Simulations from the Community Land Model, Version 4 (CLM4). <i>Journal of Hydrometeorology</i> , 2016 , 17, 153-170	3.7	43
101	Using climate regionalization to understand Climate Forecast System Version 2 (CFSv2) precipitation performance for the Conterminous United States (CONUS). <i>Geophysical Research Letters</i> , 2016 , 43, 6485-6492	4.9	4
100	Assimilation of Gridded GRACE Terrestrial Water Storage Estimates in the North American Land Data Assimilation System. <i>Journal of Hydrometeorology</i> , 2016 , 17, 1951-1972	3.7	99
99	Monitoring drought with GRACE data assimilation 2016 ,		2
98	GRACE-Based Estimates of Global Groundwater Depletion. <i>Geophysical Monograph Series</i> , 2016 , 135-146	1.1	5

97	Impact of Irrigation Methods on Land Surface Model Spinup and Initialization of WRF Forecasts. <i>Journal of Hydrometeorology</i> , 2015 , 16, 1135-1154	3.7	55
96	The Observed State of the Water Cycle in the Early Twenty-First Century. <i>Journal of Climate</i> , 2015 , 28, 8289-8318	4.4	162
95	The Observed State of the Energy Budget in the Early Twenty-First Century. <i>Journal of Climate</i> , 2015 , 28, 8319-8346	4.4	125
94	Groundwater variability across temporal and spatial scales in the central and northeastern U.S.. <i>Journal of Hydrology</i> , 2015 , 525, 769-780	6	26
93	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015 , 53, 5247-5268	8.1	11
92	State of the Climate in 2014. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, ES1-ES32	6.1	61
91	Satellites provide the big picture. <i>Science</i> , 2015 , 349, 684-5	33.3	72
90	Uncertainty in global groundwater storage estimates in a Total Groundwater Stress framework. <i>Water Resources Research</i> , 2015 , 51, 5198-5216	5.4	124
89	Quantifying renewable groundwater stress with GRACE. <i>Water Resources Research</i> , 2015 , 51, 5217-5238	5.4	424
88	Assimilation of GRACE Terrestrial Water Storage Observations into a Land Surface Model for the Assessment of Regional Flood Potential. <i>Remote Sensing</i> , 2015 , 7, 14663-14679	5	56
87	Evaluation of a model-based groundwater drought indicator in the conterminous U.S.. <i>Journal of Hydrology</i> , 2015 , 526, 78-88	6	78
86	Groundwater depletion during drought threatens future water security of the Colorado River Basin. <i>Geophysical Research Letters</i> , 2014 , 41, 5904-5911	4.9	226
85	A GRACE-based water storage deficit approach for hydrological drought characterization. <i>Geophysical Research Letters</i> , 2014 , 41, 1537-1545	4.9	251
84	Controls of Terrestrial Water Storage Changes Over the Central Congo Basin Determined by Integrating PALSAR ScanSAR, Envisat Altimetry, and GRACE Data. <i>Geophysical Monograph Series</i> , 2014 , 115-129	1.1	5
83	Retrieval and Validation of VIIRS Snow Cover Information for Terrestrial Water Cycle Applications. <i>Geophysical Monograph Series</i> , 2014 , 175-197	1.1	1
82	NASA Giovanni. <i>Geophysical Monograph Series</i> , 2014 , 331-346	1.1	1
81	Monitoring Aquifer Depletion from Space. <i>Geophysical Monograph Series</i> , 2014 , 347-366	1.1	6
80	Dominant Patterns of Water Storage Changes in the Nile Basin During 2003-2013. <i>Geophysical Monograph Series</i> , 2014 , 367-381	1.1	8

79	Monitoring Subsidence Associated with Groundwater Dynamics in the Central Valley of California Using Interferometric Radar. <i>Geophysical Monograph Series</i> , 2014 , 397-406	1.1	11
78	Assimilation of MODIS snow cover through the Data Assimilation Research Testbed and the Community Land Model version 4. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 7091-7103	4.4	48
77	Hydrological evaluation of the Noah-MP land surface model for the Mississippi River Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 23-38	4.4	105
76	State of the Climate in 2013. <i>Bulletin of the American Meteorological Society</i> , 2014 , 95, S1-S279	6.1	128
75	Water Balance in the Amazon Basin from a Land Surface Model Ensemble. <i>Journal of Hydrometeorology</i> , 2014 , 15, 2586-2614	3.7	54
74	Changes in Snowpacks of Canadian Prairies for 1979-2004 Detected from Snow Water Equivalent Data of SMMR and SSM/I Passive Microwave and Related Climatic Factors. <i>Geophysical Monograph Series</i> , 2014 , 227-243	1.1	1
73	Application of Satellite Gravimetry for Water Resource Vulnerability Assessment 2013 , 151-159		2
72	Ground water and climate change. <i>Nature Climate Change</i> , 2013 , 3, 322-329	21.4	1116
71	Environmental science. Water in the balance. <i>Science</i> , 2013 , 340, 1300-1	33.3	273
70	Groundwater depletion in the Middle East from GRACE with implications for transboundary water management in the Tigris-Euphrates-Western Iran region. <i>Water Resources Research</i> , 2013 , 49, 904-914	5.4	457
69	Spatial variability and its scale dependency of observed and modeled soil moisture over different climate regions. <i>Hydrology and Earth System Sciences</i> , 2013 , 17, 1177-1188	5.5	45
68	Toward calibration of regional groundwater models using GRACE data. <i>Journal of Hydrology</i> , 2012 , 422-423, 1-9	6	49
67	Assimilation of GRACE terrestrial water storage into a land surface model: Evaluation and potential value for drought monitoring in western and central Europe. <i>Journal of Hydrology</i> , 2012 , 446-447, 103-115	6	126
66	State of the Climate in 2011. <i>Bulletin of the American Meteorological Society</i> , 2012 , 93, S1-S282	6.1	103
65	Impact of water withdrawals from groundwater and surface water on continental water storage variations. <i>Journal of Geodynamics</i> , 2012 , 59-60, 143-156	2.2	384
64	Assimilation of terrestrial water storage from GRACE in a snow-dominated basin. <i>Water Resources Research</i> , 2012 , 48,	5.4	84
63	Drought indicators based on model-assimilated Gravity Recovery and Climate Experiment (GRACE) terrestrial water storage observations. <i>Water Resources Research</i> , 2012 , 48,	5.4	243
62	Evaluation of global observations-based evapotranspiration datasets and IPCC AR4 simulations. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	267

61	Satellites measure recent rates of groundwater depletion in California's Central Valley. <i>Geophysical Research Letters</i> , 2011 , 38,	4.9	570
60	Global intercomparison of 12 land surface heat flux estimates. <i>Journal of Geophysical Research</i> , 2011 , 116,		271
59	Possible link between irrigation in the U.S. High Plains and increased summer streamflow in the Midwest. <i>Water Resources Research</i> , 2011 , 47,	5.4	42
58	Use of Gravity Recovery and Climate Experiment terrestrial water storage retrievals to evaluate model estimates by the Australian water resources assessment system. <i>Water Resources Research</i> , 2011 , 47,	5.4	43
57	Observation of Hydrological Processes Using Remote Sensing 2011 , 351-399		6
56	Estimating evapotranspiration using an observation based terrestrial water budget. <i>Hydrological Processes</i> , 2011 , 25, 4082-4092	3.3	80
55	Using leaf chlorophyll to parameterize light-use-efficiency within a thermal-based carbon, water and energy exchange model. <i>Remote Sensing of Environment</i> , 2011 , 115, 1694-1705	13.2	46
54	Using enhanced GRACE water storage data to improve drought detection by the U.S. and North American Drought Monitors 2010 ,		7
53	Simulating the Effects of Irrigation over the United States in a Land Surface Model Based on Satellite-Derived Agricultural Data. <i>Journal of Hydrometeorology</i> , 2010 , 11, 171-184	3.7	186
52	Evaluation of the Global Land Data Assimilation System using global river discharge data and a source-to-sink routing scheme. <i>Water Resources Research</i> , 2010 , 46,	5.4	96
51	Realizing the Potential of Satellite Gravimetry for Hydrology: Second GRACE Hydrology Workshop; Austin, Texas, 4 November 2009. <i>Eos</i> , 2010 , 91, 96	1.5	4
50	Movement of Amazon surface water from time-variable satellite gravity measurements and implications for water cycle parameters in land surface models. <i>Geochemistry, Geophysics, Geosystems</i> , 2010 , 11,	3.6	23
49	Inferring aquifer storage parameters using satellite and in situ measurements: Estimation under uncertainty. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	43
48	Influence of thermodynamic soil and vegetation parameterizations on the simulation of soil temperature states and surface fluxes by the Noah LSM over a Tibetan plateau site. <i>Hydrology and Earth System Sciences</i> , 2009 , 13, 759-777	5.5	52
47	The South American Land Data Assimilation System (SALDAS) 5-Yr Retrospective Atmospheric Forcing Datasets. <i>Journal of Hydrometeorology</i> , 2009 , 10, 999-1010	3.7	11
46	Evaluation and validation of mascon recovery using GRACE KBRR data with independent mass flux estimates in the Mississippi Basin. <i>Journal of Geodesy</i> , 2009 , 83, 817-827	4.5	7
45	Satellite-based estimates of groundwater depletion in India. <i>Nature</i> , 2009 , 460, 999-1002	50.4	1672
44	Forward-Looking Assimilation of MODIS-Derived Snow-Covered Area into a Land Surface Model. <i>Journal of Hydrometeorology</i> , 2009 , 10, 130-148	3.7	90

43	Influence of thermodynamic soil and vegetation parameterizations on the simulation of soil temperature states and surface fluxes by the Noah LSM over a Tibetan plateau site 2009 ,		3
42	Earth observation: Serving the needs of an increasingly global society 2009 , 153-196		2
41	Analysis of terrestrial water storage changes from GRACE and GLDAS. <i>Water Resources Research</i> , 2008 , 44,	5.4	351
40	Field observations of soil moisture variability across scales. <i>Water Resources Research</i> , 2008 , 44,	5.4	242
39	Reply to comment by H. Vereecken et al. on Field observations of soil moisture variability across scales <i>Water Resources Research</i> , 2008 , 44,	5.4	53
38	Assimilation of GRACE Terrestrial Water Storage Data into a Land Surface Model: Results for the Mississippi River Basin. <i>Journal of Hydrometeorology</i> , 2008 , 9, 535-548	3.7	301
37	Improving land-surface model hydrology: Is an explicit aquifer model better than a deeper soil profile?. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	66
36	Comparison of seasonal terrestrial water storage variations from GRACE with groundwater-level measurements from the High Plains Aquifer (USA). <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	136
35	Retrieving snow mass from GRACE terrestrial water storage change with a land surface model. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	42
34	Contemporary estimates of Pan-Arctic freshwater discharge from GRACE and reanalysis. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	57
33	Sensitivity of Land Surface Simulations to Model Physics, Land Characteristics, and Forcings, at Four CEOP Sites. <i>Journal of the Meteorological Society of Japan</i> , 2007 , 85A, 187-204	2.8	81
32	Attenuation effect on seasonal basin-scale water storage changes from GRACE time-variable gravity. <i>Journal of Geodesy</i> , 2007 , 81, 237-245	4.5	80
31	Estimating groundwater storage changes in the Mississippi River basin (USA) using GRACE. <i>Hydrogeology Journal</i> , 2007 , 15, 159-166	3.1	412
30	U.S. CONTRIBUTIONS TO THE CEOP. <i>Bulletin of the American Meteorological Society</i> , 2006 , 87, 927-940	6.1	12
29	Toward a South America Land Data Assimilation System: Aspects of land surface model spin-up using the Simplified Simple Biosphere. <i>Journal of Geophysical Research</i> , 2006 , 111,		19
28	Impact of different initial soil moisture fields on Eta model weather forecasts for South America. <i>Journal of Geophysical Research</i> , 2006 , 111,		19
27	Terrestrial water mass load changes from Gravity Recovery and Climate Experiment (GRACE). <i>Water Resources Research</i> , 2006 , 42,	5.4	79
26	Remote sensing of groundwater storage changes in Illinois using the Gravity Recovery and Climate Experiment (GRACE). <i>Water Resources Research</i> , 2006 , 42,	5.4	215

25	A framework for assessing the potential of remote-sensed gravity to provide new insight on the hydrology of the Murray-Darling Basin. <i>Australian Journal of Water Resources</i> , 2006 , 10, 125-138	1.2	10
24	Spatial sensitivity of the Gravity Recovery and Climate Experiment (GRACE) time-variable gravity observations. <i>Journal of Geophysical Research</i> , 2005 , 110,		71
23	Development of land surface albedo parameterization based on Moderate Resolution Imaging Spectroradiometer (MODIS) data. <i>Journal of Geophysical Research</i> , 2005 , 110,		70
22	Low degree spherical harmonic influences on Gravity Recovery and Climate Experiment (GRACE) water storage estimates. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	121
21	Total basin discharge for the Amazon and Mississippi River basins from GRACE and a land-atmosphere water balance. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	121
20	Global Biomass Variation and Its Geodynamic Effects: 1982-98. <i>Earth Interactions</i> , 2005 , 9, 1-19	1.5	41
19	Evaluation of 10 Methods for Initializing a Land Surface Model. <i>Journal of Hydrometeorology</i> , 2005 , 6, 146-155	3.7	96
18	Development of a hydrometeorological forcing data set for global soil moisture estimation. <i>International Journal of Climatology</i> , 2005 , 25, 1697-1714	3.5	47
17	Seasonal global mean sea level change from satellite altimeter, GRACE, and geophysical models. <i>Journal of Geodesy</i> , 2005 , 79, 532-539	4.5	55
16	Filters to estimate water storage variations from GRACE 2005 , 607-611		1
15	Analysis of Multiple Precipitation Products and Preliminary Assessment of Their Impact on Global Land Data Assimilation System Land Surface States. <i>Journal of Hydrometeorology</i> , 2005 , 6, 573-598	3.7	152
14	The Global Land Data Assimilation System. <i>Bulletin of the American Meteorological Society</i> , 2004 , 85, 3816-3824	3.9	2869
13	Updating a Land Surface Model with MODIS-Derived Snow Cover. <i>Journal of Hydrometeorology</i> , 2004 , 5, 1064-1075	3.7	178
12	Basin scale estimates of evapotranspiration using GRACE and other observations. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	333
11	Realistic Initialization of Land Surface States: Impacts on Subseasonal Forecast Skill. <i>Journal of Hydrometeorology</i> , 2004 , 5, 1049-1063	3.7	161
10	Spatial distribution of soil moisture over 6 and 30 cm depth, Mahurangi river catchment, New Zealand. <i>Journal of Hydrology</i> , 2003 , 276, 254-274	6	73
9	The potential for satellite-based monitoring of groundwater storage changes using GRACE: the High Plains aquifer, Central US. <i>Journal of Hydrology</i> , 2002 , 263, 245-256	6	180
8	An analysis of terrestrial water storage variations in Illinois with implications for the Gravity Recovery and Climate Experiment (GRACE). <i>Water Resources Research</i> , 2001 , 37, 1327-1339	5.4	184

7	Ground-based investigation of soil moisture variability within remote sensing footprints During the Southern Great Plains 1997 (SGP97) Hydrology Experiment. <i>Water Resources Research</i> , 1999 , 35, 1839-1851	5.4	310
6	Detectability of variations in continental water storage from satellite observations of the time dependent gravity field. <i>Water Resources Research</i> , 1999 , 35, 2705-2723	5.4	187
5	Variability in surface moisture content along a hillslope transect: Rattlesnake Hill, Texas. <i>Journal of Hydrology</i> , 1998 , 210, 259-281	6	464
4	Assessment of Irrigation Physics in a Land Surface Modeling Framework using Non-Traditional and Human-Practice Datasets		2
3	The Future of Earth Observation in Hydrology		6
2	Spatial variability and its scale dependency of observed and modeled soil moisture under different climate conditions		2
1	A High-Resolution Land Data Assimilation System Optimized for the Western United States. <i>Journal of the American Water Resources Association</i> ,	2.1	2