

Sean C Swenson

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

12,346
citations

87723

38
h-index

197535

49
g-index

50
all docs

50
docs citations

50
times ranked

11121
citing authors

#	ARTICLE	IF	CITATIONS
1	Post-processing removal of correlated errors in GRACE data. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	1,155
2	Recent contributions of glaciers and ice caps to sea level rise. <i>Nature</i> , 2012, 482, 514-518.	13.7	863
3	The Community Land Model Version 5: Description of New Features, Benchmarking, and Impact of Forcing Uncertainty. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 4245-4287.	1.3	692
4	Parameterization improvements and functional and structural advances in Version 4 of the Community Land Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2011, 3, .	1.3	666
5	Estimating geocenter variations from a combination of GRACE and ocean model output. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	665
6	Dwindling groundwater resources in northern India, from satellite gravity observations. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	633
7	Time-variable gravity from GRACE: First results. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	628
8	Groundwater depletion in the Middle East from GRACE with implications for transboundary water management in the Tigrisâ€Euphratesâ€Western Iran region. <i>Water Resources Research</i> , 2013, 49, 904-914.	1.7	601
9	Quantifying renewable groundwater stress with <sc>GRACE</sc>. <i>Water Resources Research</i> , 2015, 51, 5217-5238.	1.7	588
10	Contributions of GRACE to understanding climate change. <i>Nature Climate Change</i> , 2019, 9, 358-369.	8.1	536
11	Improving canopy processes in the Community Land Model version 4 (CLM4) using global flux fields empirically inferred from FLUXNET data. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	522
12	Methods for inferring regional surface-mass anomalies from Gravity Recovery and Climate Experiment (GRACE) measurements of time-variable gravity. <i>Journal of Geophysical Research</i> , 2002, 107, ETG 3-1-ETG 3-13.	3.3	412
13	Accuracy of GRACE mass estimates. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	369
14	Parameterization improvements and functional and structural advances in Version 4 of the Community Land Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2011, 3, n/a-n/a.	1.3	367
15	Improving the representation of hydrologic processes in Earth System Models. <i>Water Resources Research</i> , 2015, 51, 5929-5956.	1.7	366
16	Groundwater depletion during drought threatens future water security of the Colorado River Basin. <i>Geophysical Research Letters</i> , 2014, 41, 5904-5911.	1.5	281
17	Hillslope Hydrology in Global Change Research and Earth System Modeling. <i>Water Resources Research</i> , 2019, 55, 1737-1772.	1.7	281
18	Monitoring the water balance of Lake Victoria, East Africa, from space. <i>Journal of Hydrology</i> , 2009, 370, 163-176.	2.3	280

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19	Estimated accuracies of regional water storage variations inferred from the Gravity Recovery and Climate Experiment (GRACE). <i>Water Resources Research</i> , 2003, 39, .	1.7	216
20	Implementing Plant Hydraulics in the Community Land Model, Version 5. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 485-513.	1.3	213
21	Simulation of Present-Day and Future Permafrost and Seasonally Frozen Ground Conditions in CCSM4. <i>Journal of Climate</i> , 2012, 25, 2207-2225.	1.2	207
22	Estimating the human contribution to groundwater depletion in the Middle East, from GRACE data, land surface models, and well observations. <i>Water Resources Research</i> , 2014, 50, 2679-2692.	1.7	198
23	A comparison of terrestrial water storage variations from GRACE with in situ measurements from Illinois. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	196
24	Uncertainty in global groundwater storage estimates in a <sc>T</sc>otal <sc>G</sc>roundwater <sc>S</sc>ress framework. <i>Water Resources Research</i> , 2015, 51, 5198-5216.	1.7	180
25	An Enhanced Model of Land Water and Energy for Global Hydrologic and Earth-System Studies. <i>Journal of Hydrometeorology</i> , 2014, 15, 1739-1761.	0.7	155
26	Estimating profile soil moisture and groundwater variations using GRACE and Oklahoma Mesonet soil moisture data. <i>Water Resources Research</i> , 2008, 44, .	1.7	120
27	Estimating Large-Scale Precipitation Minus Evapotranspiration from GRACE Satellite Gravity Measurements. <i>Journal of Hydrometeorology</i> , 2006, 7, 252-270.	0.7	107
28	Continuity of the Mass Loss of the World's Glaciers and Ice Caps From the GRACE and GRACE Follow-On Missions. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086926.	1.5	88
29	Tracking Seasonal Fluctuations in Land Water Storage Using Global Models and GRACE Satellites. <i>Geophysical Research Letters</i> , 2019, 46, 5254-5264.	1.5	84
30	Multi-sensor analysis of water storage variations of the Caspian Sea. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	77
31	Comparison of Groundwater Storage Changes From GRACE Satellites With Monitoring and Modeling of Major U.S. Aquifers. <i>Water Resources Research</i> , 2020, 56, e2020WR027556.	1.7	73
32	Toward calibration of regional groundwater models using GRACE data. <i>Journal of Hydrology</i> , 2012, 422-423, 1-9.	2.3	65
33	Inferring aquifer storage parameters using satellite and in situ measurements: Estimation under uncertainty. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	57
34	Infiltration from the Pedon to Global Grid Scales: An Overview and Outlook for Land Surface Modeling. <i>Vadose Zone Journal</i> , 2019, 18, 1-53.	1.3	56
35	Simulating Agriculture in the Community Land Model Version 5. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005529.	1.3	53
36	Representation of Plant Hydraulics in the Noah-MP Land Surface Model: Model Development and Multiscale Evaluation. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002214.	1.3	50

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37	Estimated effects of the vertical structure of atmospheric mass on the time-variable geoid. Journal of Geophysical Research, 2002, 107, ETG 4-1-ETG 4-11.	3.3	45
38	Representing Intrahillslope Lateral Subsurface Flow in the Community Land Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 4044-4065.	1.3	43
39	Assessing High-Latitude Winter Precipitation from Global Precipitation Analyses Using GRACE. Journal of Hydrometeorology, 2010, 11, 405-420.	0.7	28
40	The Impact of Biomass Heat Storage on the Canopy Energy Balance and Atmospheric Stability in the Community Land Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 83-98.	1.3	21
41	Ecosystem function in complex mountain terrain: Combining models and long-term observations to advance process-based understanding. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 825-845.	1.3	19
42	A Comparison of the Diel Cycle of Modeled and Measured Latent Heat Flux During the Warm Season in a Colorado Subalpine Forest. Journal of Advances in Modeling Earth Systems, 2018, 10, 617-651.	1.3	19
43	Monitoring Changes in Continental Water Storage with GRACE. Space Science Reviews, 2003, 108, 345-354.	3.7	16
44	Biomass heat storage dampens diurnal temperature variations in forests. Environmental Research Letters, 2019, 14, 084026.	2.2	16
45	Ground subsidence effects on simulating dynamic high-latitude surface inundation under permafrost thaw using CLM5. Geoscientific Model Development, 2019, 12, 5291-5300.	1.3	13
46	Evaluating a reservoir parametrization in the vector-based global routing model mizuRoute (v2.0.1) for Earth system model coupling. Geoscientific Model Development, 2022, 15, 4163-4192.	1.3	11
47	Reply to comment by Sahoo et al. on "Quantifying renewable groundwater stress with GRACE". Water Resources Research, 2016, 52, 4188-4192.	1.7	6
48	Improvements in Wintertime Surface Temperature Variability in the Community Earth System Model Version 2 (CESM2) Related to the Representation of Snow Density. Journal of Advances in Modeling Earth Systems, 2022, 14, .	1.3	1