

Sean C Swenson

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

12,346
citations

87888

38
h-index

197818

49
g-index

50
all docs

50
docs citations

50
times ranked

11121
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvements in Wintertime Surface Temperature Variability in the Community Earth System Model Version 2 (CESM2) Related to the Representation of Snow Density. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	3.8	1
2	Evaluating a reservoir parametrization in the vector-based global routing model mizuRoute (v2.0.1) for Earth system model coupling. <i>Geoscientific Model Development</i> , 2022, 15, 4163-4192.	3.6	11
3	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.	3.8	50
4	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.	4.2	73
5	Simulating Agriculture in the Community Land Model Version 5. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005529.	3.0	53
6	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.	4.0	88
7	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.	2.2	56
8	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.	3.8	692
9	Representing Intrahillslope Lateral Subsurface Flow in the Community Land Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 4044-4065.	3.8	43
10	Biomass heat storage dampens diurnal temperature variations in forests. <i>Environmental Research Letters</i> , 2019, 14, 084026.	5.2	16
11	Contributions of GRACE to understanding climate change. <i>Nature Climate Change</i> , 2019, 9, 358-369.	18.8	536
12	Tracking Seasonal Fluctuations in Land Water Storage Using Global Models and GRACE Satellites. <i>Geophysical Research Letters</i> , 2019, 46, 5254-5264.	4.0	84
13	The Impact of Biomass Heat Storage on the Canopy Energy Balance and Atmospheric Stability in the Community Land Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 83-98.	3.8	21
14	Implementing Plant Hydraulics in the Community Land Model, Version 5. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 485-513.	3.8	213
15	Hillslope Hydrology in Global Change Research and Earth System Modeling. <i>Water Resources Research</i> , 2019, 55, 1737-1772.	4.2	281
16	Ground subsidence effects on simulating dynamic high-latitude surface inundation under permafrost thaw using CLM5. <i>Geoscientific Model Development</i> , 2019, 12, 5291-5300.	3.6	13
17	A Comparison of the Diel Cycle of Modeled and Measured Latent Heat Flux During the Warm Season in a Colorado Subalpine Forest. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 617-651.	3.8	19
18	Ecosystem function in complex mountain terrain: Combining models and long-term observations to advance process-based understanding. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 825-845.	3.0	19

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19	Reply to comment by Sahoo et al. on "Quantifying renewable groundwater stress with GRACE". Water Resources Research, 2016, 52, 4188-4192.	4.2	6
20	Uncertainty in global groundwater storage estimates in a Total Groundwater Stress framework. Water Resources Research, 2015, 51, 5198-5216.	4.2	180
21	Quantifying renewable groundwater stress with GRACE. Water Resources Research, 2015, 51, 5217-5238.	4.2	588
22	Improving the representation of hydrologic processes in Earth System Models. Water Resources Research, 2015, 51, 5929-5956.	4.2	366
23	An Enhanced Model of Land Water and Energy for Global Hydrologic and Earth-System Studies. Journal of Hydrometeorology, 2014, 15, 1739-1761.	1.9	155
24	Estimating the human contribution to groundwater depletion in the Middle East, from GRACE data, land surface models, and well observations. Water Resources Research, 2014, 50, 2679-2692.	4.2	198
25	Groundwater depletion during drought threatens future water security of the Colorado River Basin. Geophysical Research Letters, 2014, 41, 5904-5911.	4.0	281
26	Groundwater depletion in the Middle East from GRACE with implications for transboundary water management in the Tigris-Euphrates-Western Iran region. Water Resources Research, 2013, 49, 904-914.	4.2	601
27	Simulation of Present-Day and Future Permafrost and Seasonally Frozen Ground Conditions in CCSM4. Journal of Climate, 2012, 25, 2207-2225.	3.2	207
28	Recent contributions of glaciers and ice caps to sea level rise. Nature, 2012, 482, 514-518.	27.8	863
29	Toward calibration of regional groundwater models using GRACE data. Journal of Hydrology, 2012, 422-423, 1-9.	5.4	65
30	Improving canopy processes in the Community Land Model version 4 (CLM4) using global flux fields empirically inferred from FLUXNET data. Journal of Geophysical Research, 2011, 116, .	3.3	522
31	Parameterization improvements and functional and structural advances in Version 4 of the Community Land Model. Journal of Advances in Modeling Earth Systems, 2011, 3, .	3.8	666
32	Parameterization improvements and functional and structural advances in Version 4 of the Community Land Model. Journal of Advances in Modeling Earth Systems, 2011, 3, n/a-n/a.	3.8	367
33	Assessing High-Latitude Winter Precipitation from Global Precipitation Analyses Using GRACE. Journal of Hydrometeorology, 2010, 11, 405-420.	1.9	28
34	Inferring aquifer storage parameters using satellite and in situ measurements: Estimation under uncertainty. Geophysical Research Letters, 2010, 37, .	4.0	57
35	Monitoring the water balance of Lake Victoria, East Africa, from space. Journal of Hydrology, 2009, 370, 163-176.	5.4	280
36	Dwindling groundwater resources in northern India, from satellite gravity observations. Geophysical Research Letters, 2009, 36, .	4.0	633

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37	Estimating geocenter variations from a combination of GRACE and ocean model output. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	665
38	Estimating profile soil moisture and groundwater variations using GRACE and Oklahoma Mesonet soil moisture data. <i>Water Resources Research</i> , 2008, 44, .	4.2	120
39	Multi-sensor analysis of water storage variations of the Caspian Sea. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	77
40	Post-processing removal of correlated errors in GRACE data. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	1,155
41	Accuracy of GRACE mass estimates. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	369
42	A comparison of terrestrial water storage variations from GRACE with in situ measurements from Illinois. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	196
43	Estimating Large-Scale Precipitation Minus Evapotranspiration from GRACE Satellite Gravity Measurements. <i>Journal of Hydrometeorology</i> , 2006, 7, 252-270.	1.9	107
44	Time-variable gravity from GRACE: First results. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	628
45	Monitoring Changes in Continental Water Storage with GRACE. <i>Space Science Reviews</i> , 2003, 108, 345-354.	8.1	16
46	Estimated accuracies of regional water storage variations inferred from the Gravity Recovery and Climate Experiment (GRACE). <i>Water Resources Research</i> , 2003, 39, .	4.2	216
47	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
48	Estimated effects of the vertical structure of atmospheric mass on the time-variable geoid. <i>Journal of Geophysical Research</i> , 2002, 107, ETG 4-1-ETG 4-11.	3.3	45