# Sean C Swenson

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Post-processing removal of correlated errors in GRACE data. Geophysical Research Letters, 2006, 33, . | 4.0 | 1,155 |
| 2 | Recent contributions of glaciers and ice caps to sea level rise. Nature, 2012, 482, 514-518. | 27.8 | 863 |
| 3 | The Community Land Model Version 5: Description of New Features, Benchmarking, and Impact of Forcing Uncertainty. Journal of Advances in Modeling Earth Systems, 2019, 11, 4245-4287. | 3.8 | 692 |
| 4 | 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 |
| 5 | Estimating geocenter variations from a combination of GRACE and ocean model output. Journal of Geophysical Research, 2008, 113, . | 3.3 | 665 |
| 6 | Dwindling groundwater resources in northern India, from satellite gravity observations. Geophysical Research Letters, 2009, 36, . | 4.0 | 633 |
| 7 | Time-variable gravity from GRACE: First results. Geophysical Research Letters, 2004, 31, n/a-n/a. | 4.0 | 628 |
| 8 | Groundwater depletion in the Middle East from GRACE with implications for transboundary water management in the Tigrisâ€Euphratesâ€Western Iran region. Water Resources Research, 2013, 49, 904-914. | 4.2 | 601 |
| 9 | Quantifying renewable groundwater stress with <scp>GRACE</scp>. Water Resources Research, 2015, 51, 5217-5238. | 4.2 | 588 |
| 10 | Contributions of GRACE to understanding climate change. Nature Climate Change, 2019, 9, 358-369. | 18.8 | 536 |
| 11 | 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 |
| 12 | Methods for inferring regional surface-mass anomalies from Gravity Recovery and Climate Experiment (GRACE) measurements of time-variable gravity. Journal of Geophysical Research, 2002, 107, ETG 3-1-ETG 3-13. | 3.3 | 412 |
| 13 | Accuracy of GRACE mass estimates. Geophysical Research Letters, 2006, 33, . | 4.0 | 369 |
| 14 | 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 |
| 15 | Improving the representation of hydrologic processes in Earth System Models. Water Resources Research, 2015, 51, 5929-5956. | 4.2 | 366 |
| 16 | Groundwater depletion during drought threatens future water security of the Colorado River Basin. Geophysical Research Letters, 2014, 41, 5904-5911. | 4.0 | 281 |
| 17 | Hillslope Hydrology in Global Change Research and Earth System Modeling. Water Resources Research, 2019, 55, 1737-1772. | 4.2 | 281 |
| 18 | Monitoring the water balance of Lake Victoria, East Africa, from space. Journal of Hydrology, 2009, 370, 163-176. | 5.4 | 280 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Estimated accuracies of regional water storage variations inferred from the Gravity Recovery and Climate Experiment (GRACE). Water Resources Research, 2003, 39, . | 4.2 | 216 |
| 20 | Implementing Plant Hydraulics in the Community Land Model, Version 5. Journal of Advances in Modeling Earth Systems, 2019, 11, 485-513. | 3.8 | 213 |
| 21 | Simulation of Present-Day and Future Permafrost and Seasonally Frozen Ground Conditions in CCSM4. Journal of Climate, 2012, 25, 2207-2225. | 3.2 | 207 |
| 22 | 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 |
| 23 | A comparison of terrestrial water storage variations from GRACE with in situ measurements from Illinois. Geophysical Research Letters, 2006, 33, . | 4.0 | 196 |
| 24 | Uncertainty in global groundwater storage estimates in a <scp>T</scp>otal <scp>G</scp>roundwater <scp>S</scp>tress framework. Water Resources Research, 2015, 51, 5198-5216. | 4.2 | 180 |
| 25 | 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 |
| 26 | Estimating profile soil moisture and groundwater variations using GRACE and Oklahoma Mesonet soil moisture data. Water Resources Research, 2008, 44, . | 4.2 | 120 |
| 27 | Estimating Large-Scale Precipitation Minus Evapotranspiration from GRACE Satellite Gravity Measurements. Journal of Hydrometeorology, 2006, 7, 252-270. | 1.9 | 107 |
| 28 | Continuity of the Mass Loss of the World's Glaciers and Ice Caps From the GRACE and GRACE Followâ€On Missions. Geophysical Research Letters, 2020, 47, e2019GL086926. | 4.0 | 88 |
| 29 | Tracking Seasonal Fluctuations in Land Water Storage Using Global Models and GRACE Satellites. Geophysical Research Letters, 2019, 46, 5254-5264. | 4.0 | 84 |
| 30 | Multiâ€sensor analysis of water storage variations of the Caspian Sea. Geophysical Research Letters, 2007, 34, . | 4.0 | 77 |
| 31 | Comparison of Groundwater Storage Changes From GRACE Satellites With Monitoring and Modeling of Major U.S. Aquifers. Water Resources Research, 2020, 56, e2020WR027556. | 4.2 | 73 |
| 32 | Toward calibration of regional groundwater models using GRACE data. Journal of Hydrology, 2012, 422-423, 1-9. | 5.4 | 65 |
| 33 | Inferring aquifer storage parameters using satellite and in situ measurements: Estimation under uncertainty. Geophysical Research Letters, 2010, 37, . | 4.0 | 57 |
| 34 | Infiltration from the Pedon to Global Grid Scales: An Overview and Outlook for Land Surface Modeling. Vadose Zone Journal, 2019, 18, 1-53. | 2.2 | 56 |
| 35 | Simulating Agriculture in the Community Land Model Version 5. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005529. | 3.0 | 53 |
| 36 | Representation of Plant Hydraulics in the Noahâ€MP Land Surface Model: Model Development and Multiscale Evaluation. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002214. | 3.8 | 50 |

| # | Article | IF | Citations |
|---|---|---|---|
| 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. | 3.8 | 43 |
| 39 | Assessing High-Latitude Winter Precipitation from Global Precipitation Analyses Using GRACE. Journal of Hydrometeorology, 2010, 11, 405-420. | 1.9 | 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. | 3.8 | 21 |
| 41 | Ecosystem function in complex mountain terrain: Combining models and longâ€term observations to advance processâ€based understanding. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 825-845. | 3.0 | 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. | 3.8 | 19 |
| 43 | Monitoring Changes in Continental Water Storage with GRACE. Space Science Reviews, 2003, 108, 345-354. | 8.1 | 16 |
| 44 | Biomass heat storage dampens diurnal temperature variations in forests. Environmental Research Letters, 2019, 14, 084026. | 5.2 | 16 |
| 45 | Ground subsidence effects on simulating dynamic high-latitude surface inundation under permafrost thaw using CLM5. Geoscientific Model Development, 2019, 12, 5291-5300. | 3.6 | 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. | 3.6 | 11 |
| 47 | Reply to comment by Sahoo et al. on â€œQuantifying renewable groundwater stress with GRACEâ€. Water Resources Research, 2016, 52, 4188-4192. | 4.2 | 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, . | 3.8 | 1 |