Marc Stieglitz

List of Publications by Year
in descending order

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46 papers	4,108 citations	185998 28 h-index	233125 45 g-index
47 all docs	47 docs citations	47 times ranked	4783 citing authors

#	Article	IF	Citations
1	A catchment-based approach to modeling land surface processes in a general circulation model: 1. Model structure. Journal of Geophysical Research, 2000, 105, 24809-24822.	3.3	673
2	Lability of DOC transported by Alaskan rivers to the Arctic Ocean. Geophysical Research Letters, 2008, 35, .	1.5	290
3	The role of snow cover in the warming of arctic permafrost. Geophysical Research Letters, 2003, 30, .	1.5	236
4	A catchment-based approach to modeling land surface processes in a general circulation model: 2. Parameter estimation and model demonstration. Journal of Geophysical Research, 2000, 105, 24823-24838.	3.3	226
5	An Efficient Approach to Modeling the Topographic Control of Surface Hydrology for Regional and Global Climate Modeling. Journal of Climate, 1997, 10, 118-137.	1.2	224
6	An approach to understanding hydrologic connectivity on the hillslope and the implications for nutrient transport. Global Biogeochemical Cycles, 2003, 17, n/a-n/a.	1.9	222
7	Characteristics and Trends of River Discharge into Hudson, James, and Ungava Bays, 1964â€“2000. Journal of Climate, 2005, 18, 2540-2557.	1.2	201
8	Response of NDVI, biomass, and ecosystem gas exchange to long-term warming and fertilization in wet sedge tundra. Oecologia, 2003, 135, 414-421.	0.9	190
9	Drought-Induced Amplification and Epidemic Transmission of West Nile Virus in Southern Florida. Journal of Medical Entomology, 2005, 42, 134-141.	0.9	164
10	Hydrological consequences of Eucalyptus afforestation in the Argentine Pampas. Water Resources Research, 2005, 41, .	1.7	141
11	Using a Dynamic Hydrology Model To Predict Mosquito Abundances in Flood and Swamp Water. Emerging Infectious Diseases, 2002, 8, 8-13.	2.0	134
12	The Impact of Detailed Snow Physics on the Simulation of Snow Cover and Subsurface Thermodynamics at Continental Scales. Journal of Hydrometeorology, 2001, 2, 228-242.	0.7	118
13	Are big basins just the sum of small catchments?. Hydrological Processes, 2004, 18, 3195-3206.	1.1	109
14	Drought-Induced Amplification ofSaint Louis encephalitis virus, Florida. Emerging Infectious Diseases, 2002, 8, 575-580.	2.0	98
15	An approach to using snow areal depletion curves inferred from MODIS and its application to land surface modelling in Alaska. Hydrological Processes, 2005, 19, 2755-2774.	1.1	92
16	Comparing spatial and temporal transferability of hydrological model parameters. Journal of Hydrology, 2015, 525, 409-417.	2.3	75
17	Effects of bottom boundary placement on subsurface heat storage: Implications for climate model simulations. Geophysical Research Letters, 2007, 34, .	1.5	62
18	Inter-annual variability of NDVI in response to long-term warming and fertilization in wet sedge and tussock tundra. Oecologia, 2005, 143, 588-597.	0.9	58

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19	Advantages of a Topographically Controlled Runoff Simulation in a Soilâ€“Vegetationâ€“Atmosphere Transfer Model. Journal of Hydrometeorology, 2002, 3, 131-148.	0.7	52
20	Simulating heat transport of harmonic temperature signals in the Earth's shallow subsurface: Lower-boundary sensitivities. Geophysical Research Letters, 2006, 33, .	1.5	51
21	St. Louis Encephalitis Virus in Wild Birds During the 1990 South Florida Epidemic: The Importance of Drought, Wetting Conditions, and the Emergence ofCulex nigripalpus(Diptera: Culicidae) to Arboviral Amplification and Transmission. Journal of Medical Entomology, 2003, 40, 547-554.	0.9	47
22	Catchment hydrological responses to forest harvest amount and spatial pattern. Water Resources Research, 2011, 47, .	1.7	44
23	A hydrologically driven model of swamp water mosquito population dynamics. Ecological Modelling, 2006, 194, 395-404.	1.2	41
24	Modelling daily streamflow at ungauged catchments: what information is necessary?. Hydrological Processes, 2014, 28, 1159-1169.	1.1	39
25	Characterizing Landâ€“Atmosphere Coupling and the Implications for Subsurface Thermodynamics. Journal of Climate, 2007, 20, 21-37.	1.2	37
26	Simulating the effects of climate change and climate variability on carbon dynamics in Arctic tundra. Global Biogeochemical Cycles, 2000, 14, 1123-1136.	1.9	35
27	Modeling Snow-Cover Heterogeneity over Complex Arctic Terrain for Regional and Global Climate Models*. Journal of Hydrometeorology, 2004, 5, 33-48.	0.7	34
28	THE SPATIAL-TEMPORAL DISTRIBUTION OF DROUGHT, WETTING, AND HUMAN CASES OF ST. LOUIS ENCEPHALITIS IN SOUTHCENTRAL FLORIDA. American Journal of Tropical Medicine and Hygiene, 2004, 71, 251-261.	0.6	33
29	Effects of anisotropy on pattern formation in wetland ecosystems. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	32
30	Representation of subsurface storm flow and a more responsive water table in a TOPMODEL-based hydrology model. Water Resources Research, 2002, 38, 31-1-31-16.	1.7	28
31	The Water Budget of the Kuparuk River Basin, Alaska*. Journal of Hydrometeorology, 2005, 6, 633-655.	0.7	24
32	An algorithm for treating flat areas and depressions in digital elevation models using linear interpolation. Water Resources Research, 2012, 48, .	1.7	24
33	Effects of harvest on carbon and nitrogen dynamics in a Pacific Northwest forest catchment. Water Resources Research, 2013, 49, 1292-1313.	1.7	23
34	Seasonal Forecast of St. Louis Encephalitis Virus Transmission, Florida. Emerging Infectious Diseases, 2004, 10, 802-809.	2.0	22
35	Reconstructing solid precipitation from snow depth measurements and a land surface model. Water Resources Research, 2005, 41, .	1.7	22
36	Hydrologic modeling of an arctic tundra watershed: Toward Pan-Arctic predictions. Journal of Geophysical Research, 1999, 104, 27507-27518.	3.3	21

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37	Predicting the spectral information of future land cover using machine learning. International Journal of Remote Sensing, 2017, 38, 5592-5607.	1.3	19
38	A Note On Surface Humidity Measurements In The Cold Canadian Environment. Boundary-Layer Meteorology, 2002, 102, 491-497.	1.2	17
39	A Local Forecast of Land Surface Wetness Conditions Derived from Seasonal Climate Predictions. Journal of Hydrometeorology, 2003, 4, 611-626.	0.7	15
40	The spatial-temporal distribution of drought, wetting, and human cases of St. Louis encephalitis in southcentral Florida. American Journal of Tropical Medicine and Hygiene, 2004, 71, 251-61.	0.6	13
41	A simple model for analyzing climatic effects on terrestrial carbon and nitrogen dynamics: An arctic case study. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	1.9	11
42	An Ensemble Seasonal Forecast of Human Cases of St. Louis Encephalitis in Florida Based on Seasonal Hydrologic Forecasts. Climatic Change, 2006, 75, 495-511.	1.7	7
43	Identification of optimal soil hydraulic functions and parameters for predicting soil moisture. Hydrological Sciences Journal, 2012, 57, 723-737.	1.2	5
44	A Simple Method to Evolve Daily Ground Temperatures from Surface Air Temperatures in Snow-Dominated Regions. Journal of Hydrometeorology, 2010, 11, 1395-1404.	0.7	4
45	Twentieth Century Climate in the New York Hudson Highlands and the Potential Impacts on Eco-Hydrological Processes. Climatic Change, 2006, 75, 455-493.	1.7	1
46	A Local Forecast of Land Surface Wetness Conditions, Drought, and St. Louis Encephalitis Transmission Derived from Seasonal Climate Predictions. , 2003, , 1.		0