Paul C D Milly

List of Publications by Year
in descending order

93	20,401	34105 52	43889 91
papers	citations	h-index	g-index

98	98	98	18375
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Possible Anthropogenic Enhancement of Precipitation in the Sahelâ€Sudan Savanna by Remote Agricultural Irrigation. Geophysical Research Letters, 2022, 49, .	4.0	1
2	Globally prevalent land nitrogen memory amplifies water pollution following drought years. Environmental Research Letters, 2021, 16, 014049.	5.2	8
3	Simulated Global Coastal Ecosystem Responses to a Halfâ€Century Increase in River Nitrogen Loads. Geophysical Research Letters, 2021, 48, e2021GL094367.	4.0	22
4	Titanâ€™s climate patterns and surface methane distribution due to the coupling of land hydrology and atmosphere. Nature Astronomy, 2020, 4, 390-398.	10.1	30
5	The GFDL Earth System Model Version 4.1 (GFDLâ€ESM 4.1): Overall Coupled Model Description and Simulation Characteristics. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002015.	3.8	277
6	Colorado River flow dwindles as warming-driven loss of reflective snow energizes evaporation. Science, 2020, 367, 1252-1255.	12.6	196
7	SPEAR: The Next Generation GFDL Modeling System for Seasonal to Multidecadal Prediction and Projection. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001895.	3.8	94
8	Structure and Performance of GFDL's CM4.0 Climate Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 3691-3727.	3.8	242
9	Prominence of the tropics in the recent rise of global nitrogen pollution. Nature Communications, 2019, 10, 1437.	12.8	32
10	Hillslope Hydrology in Global Change Research and Earth System Modeling. Water Resources Research, 2019, 55, 1737-1772.	4.2	281
11	The GFDL Global Atmosphere and Land Model AM4.0/LM4.0: 2. Model Description, Sensitivity Studies, and Tuning Strategies. Journal of Advances in Modeling Earth Systems, 2018, 10, 735-769.	3.8	185
12	The GFDL Global Atmosphere and Land Model AM4.0/LM4.0: 1. Simulation Characteristics With Prescribed SSTs. Journal of Advances in Modeling Earth Systems, 2018, 10, 691-734.	3.8	155
13	On the Sensitivity of Annual Streamflow to Air Temperature. Water Resources Research, 2018, 54, 2624-2641.	4.2	36
14	Potential for western US seasonal snowpack prediction. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1180-1185.	7.1	30
15	100-Year Lower Mississippi Floods in a Global Climate Model: Characteristics and Future Changes. Journal of Hydrometeorology, 2018, 19, 1547-1563.	1.9	24
16	Harnessing big data to rethink land heterogeneity in Earth system models. Hydrology and Earth System Sciences, 2018, 22, 3311-3330.	4.9	39
17	Climate Model Assessment of Changes in Winterâ€“Spring Streamflow Timing over North America. Journal of Climate, 2018, 31, 5581-5593.	3.2	11
18	Divergent surface and total soil moisture projections under global warming. Geophysical Research Letters, 2017, 44, 236-244.	4.0	206

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19	A Hydrologic Drying Bias in Waterâ€Resource Impact Analyses of Anthropogenic Climate Change. Journal of the American Water Resources Association, 2017, 53, 822-838.	2.4	77
20	Landâ€“atmosphere feedbacks amplify aridity increase over land under global warming. Nature Climate Change, 2016, 6, 869-874.	18.8	300
21	Influence of landâ€atmosphere feedbacks on temperature and precipitation extremes in the GLACEâ€CMIP5 ensemble. Journal of Geophysical Research D: Atmospheres, 2016, 121, 607-623.	3.3	102
22	Sensitivity of the projected hydroclimatic environment of the Delaware River basin to formulation of potential evapotranspiration. Climatic Change, 2016, 139, 215-228.	3.6	12
23	Potential evapotranspiration and continentalÂdrying. Nature Climate Change, 2016, 6, 946-949.	18.8	439
24	Climate variability and extremes, interacting with nitrogen storage, amplify eutrophication risk. Geophysical Research Letters, 2016, 43, 7520-7528.	4.0	32
25	On Critiques of â€œStationarity is Dead: Whither Water Management?â€• Water Resources Research, 2015, 51, 7785-7789.	4.2	204
26	On Critiques of â€œStationarity is Dead: Whither Water Management?â€• , 2015, 51, 7785.		1
27	Capturing interactions between nitrogen and hydrological cycles under historical climate and land use: Susquehanna watershed analysis with the GFDL land model LM3-TAN. Biogeosciences, 2014, 11, 5809-5826.	3.3	14
28	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
29	Snowfall less sensitive to warming in Karakoram than in Himalayas due to a unique seasonal cycle. Nature Geoscience, 2014, 7, 834-840.	12.9	246
30	GFDLâ€™s ESM2 Global Coupled Climateâ€“Carbon Earth System Models. Part II: Carbon System Formulation and Baseline Simulation Characteristics*. Journal of Climate, 2013, 26, 2247-2267.	3.2	540
31	GFDLâ€™s ESM2 Global Coupled Climateâ€“Carbon Earth System Models. Part I: Physical Formulation and Baseline Simulation Characteristics. Journal of Climate, 2012, 25, 6646-6665.	3.2	972
32	On the Hydrologic Adjustment of Climate-Model Projections: The Potential Pitfall of Potential Evapotranspiration. Earth Interactions, 2011, 15, 1-14.	1.5	91
33	The Dynamical Core, Physical Parameterizations, and Basic Simulation Characteristics of the Atmospheric Component AM3 of the GFDL Global Coupled Model CM3. Journal of Climate, 2011, 24, 3484-3519.	3.2	887
34	Land waters and sea level. Nature Geoscience, 2009, 2, 452-454.	12.9	57
35	Carbon cycling under 300 years of land use change: Importance of the secondary vegetation sink. Global Biogeochemical Cycles, 2009, 23, .	4.9	338
36	Stationarity Is Dead: Whither Water Management?. Science, 2008, 319, 573-574.	12.6	3,381

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37	Modeled Impact of Anthropogenic Land Cover Change on Climate. Journal of Climate, 2007, 20, 3621-3634.	3.2	166
38	Relating low-flow characteristics to the base flow recession time constant at partial record stream gauges. Water Resources Research, 2007, 43, .	4.2	47
39	Flood Regionalization: A Hybrid Geographic and Predictor-Variable Region-of-Influence Regression Method. Journal of Hydrologic Engineering - ASCE, 2007, 12, 585-591.	1.9	27
40	Climate model biases in seasonality of continental water storage revealed by satellite gravimetry. Water Resources Research, 2006, 42, .	4.2	70
41	Weak Simulated Extratropical Responses to Complete Tropical Deforestation. Journal of Climate, 2006, 19, 2835-2850.	3.2	70
42	GFDL's CM2 Global Coupled Climate Models. Part I: Formulation and Simulation Characteristics. Journal of Climate, 2006, 19, 643-674.	3.2	1,431
43	AN ANALYSIS OF REGION-OF-INFLUENCE METHODS FOR FLOOD REGIONALIZATION IN THE GULF-ATLANTIC ROLLING PLAINS. Journal of the American Water Resources Association, 2005, 41, 135-143.	2.4	29
44	Global pattern of trends in streamflow and water availability in a changing climate. Nature, 2005, 438, 347-350.	27.8	1,782
45	Effects of rainfall seasonality and soil moisture capacity on mean annual water balance for Australian catchments. Water Resources Research, 2005, 41, .	4.2	189
46	Simulated long-term changes in river discharge and soil moisture due to global warming / Simulations Ã long terme de changements dâ€™Ã©coulement fluvial et dâ€™humiditÃ© du sol causÃ©s par le rÃ©chauffement global. Hydrological Sciences Journal, 2004, 49, .	2.6	105
47	The New GFDL Global Atmosphere and Land Model AM2â€“LM2: Evaluation with Prescribed SST Simulations. Journal of Climate, 2004, 17, 4641-4673.	3.2	756
48	Century-Scale Change in Water Availability: CO2-Quadrupling Experiment. Climatic Change, 2004, 64, 59-76.	3.6	93
49	Estimated accuracies of regional water storage variations inferred from the Gravity Recovery and Climate Experiment (GRACE). Water Resources Research, 2003, 39, .	4.2	216
50	Contribution of climate-driven change in continental water storage to recent sea-level rise. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 13158-13161.	7.1	66
51	A Model-Based Investigation of Soil Moisture Predictability and Associated Climate Predictability. Journal of Hydrometeorology, 2002, 3, 483-501.	1.9	67
52	Global Modeling of Land Water and Energy Balances. Part II: Land-Characteristic Contributions to Spatial Variability. Journal of Hydrometeorology, 2002, 3, 301-310.	1.9	40
53	Global Modeling of Land Water and Energy Balances. Part III: Interannual Variability. Journal of Hydrometeorology, 2002, 3, 311-321.	1.9	24
54	Global Modeling of Land Water and Energy Balances. Part I: The Land Dynamics (LaD) Model. Journal of Hydrometeorology, 2002, 3, 283-299.	1.9	314

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55	Macroscale water fluxes 1. Quantifying errors in the estimation of basin mean precipitation. Water Resources Research, 2002, 38, 23-1-23-14.	4.2	40
56	Macroscale water fluxes 2. Water and energy supply control of their interannual variability. Water Resources Research, 2002, 38, 24-1-24-9.	4.2	230
57	Macroscale water fluxes 3. Effects of land processes on variability of monthly river discharge. Water Resources Research, 2002, 38, 17-1-17-12.	4.2	47
58	Increasing risk of great floods in a changing climate. Nature, 2002, 415, 514-517.	27.8	1,419
59	Crustal displacements due to continental water loading. Geophysical Research Letters, 2001, 28, 651-654.	4.0	324
60	Trends in evaporation and surface cooling in the Mississippi River Basin. Geophysical Research Letters, 2001, 28, 1219-1222.	4.0	120
61	A minimalist probabilistic description of root zone soil water. Water Resources Research, 2001, 37, 457-463.	4.2	52
62	Comparing GCM-generated land surface water budgets using a simple common framework. Water Science and Application, 2001, , 95-105.	0.3	3
63	Comment on â€œAntiphasing between Rainfall in Africa's Rift Valley and North America's Great Basinâ€• Quaternary Research, 1999, 51, 104-107.	1.7	15
64	Cabauw Experimental Results from the Project for Intercomparison of Land-Surface Parameterization Schemes. Journal of Climate, 1997, 10, 1194-1215.	3.2	296
65	The Interplay between Transpiration and Runoff Formulations in Land Surface Schemes Used with Atmospheric Models. Journal of Climate, 1997, 10, 1578-1591.	3.2	297
66	Sensitivity of greenhouse summer dryness to changes in plant rooting characteristics. Geophysical Research Letters, 1997, 24, 269-271.	4.0	40
67	Effects of Thermal Vapor Diffusion on Seasonal Dynamics of Water in the Unsaturated Zone. Water Resources Research, 1996, 32, 509-518.	4.2	22
68	Climate, interseasonal storage of soil water, and the annual water balance. Advances in Water Resources, 1994, 17, 19-24.	3.8	122
69	Climate, soil water storage, and the average annual water balance. Water Resources Research, 1994, 30, 2143-2156.	4.2	554
70	Sensitivity of the Global Water Cycle to the Water-Holding Capacity of Land. Journal of Climate, 1994, 7, 506-526.	3.2	189
71	Water and heat fluxes in desert soils: 2. Numerical simulations. Water Resources Research, 1994, 30, 721-733.	4.2	121
72	An analytic solution of the stochastic storage problem applicable to soil water. Water Resources Research, 1993, 29, 3755-3758.	4.2	150

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73	Potential Evaporation and Soil Moisture in General Circulation Models. Journal of Climate, 1992, 5, 209-226.	3.2	99
74	Sensitivity Analysis of Infiltration, Exfiltration, and Drainage in Unsaturated Miller-Similar Porous Media. Water Resources Research, 1991, 27, 2655-2666.	4.2	4
75	Development and application of a hillslope hydrologic model. Advances in Water Resources, 1991, 14, 168-174.	3.8	12
76	Sensitivity analysis of partial differential equations: A case for functional sensitivity. Numerical Methods for Partial Differential Equations, 1991, 7, 101-112.	3.6	5
77	A refinement of the combination equations for evaporation. Surveys in Geophysics, 1991, 12, 145-154.	4.6	28
78	A comparison of capillary pressure-saturation relations for drainage in two- and three-fluid porous media. Advances in Water Resources, 1990, 13, 54-63.	3.8	19
79	Biofilm growth and the related changes in the physical properties of a porous medium: 2. Permeability. Water Resources Research, 1990, 26, 2161-2169.	4.2	177
80	Sensitivity analysis of flow in unsaturated heterogeneous porous media: Theory, numerical model and its verification. Water Resources Research, 1990, 26, 593-610.	4.2	17
81	On the relationship between the time condensation approximation and the flux concentration relation. Journal of Hydrology, 1989, 105, 357-367.	5.4	46
82	Advances in modeling of water in the unsaturated zone. Transport in Porous Media, 1988, 3, 491-514.	2.6	69
83	Effect of storm scale on surface runoff volume. Water Resources Research, 1988, 24, 620-624.	4.2	43
84	Advances in Modeling of Water in the Unsaturated Zone. , 1988, , 489-514.		14
85	Estimation of Brooksâ€Corey Parameters from water retention data. Water Resources Research, 1987, 23, 1085-1089.	4.2	46
86	Effects of spatial variability on annual average water balance. Water Resources Research, 1987, 23, 2135-2143.	4.2	64
87	Dualâ€gamma attenuation for the determination of porous medium saturation with respect to three fluids. Water Resources Research, 1986, 22, 1657-1663.	4.2	30
88	An eventâ€based simulation model of moisture and energy fluxes at a bare soil surface. Water Resources Research, 1986, 22, 1680-1692.	4.2	82
89	Stability of the Greenâ€Ampt Profile in a Delta Function Soil. Water Resources Research, 1985, 21, 399-402.	4.2	11
90	Analysis of Wellâ€Aquifer Response to a Slug Test. Water Resources Research, 1985, 21, 1433-1436.	4.2	34

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91	A Linear Analysis of Thermal Effects on Evaporation From Soil. Water Resources Research, 1984, 20, 1075-1085.	4.2	40
92	A Simulation Analysis of Thermal Effects on Evaporation From Soil. Water Resources Research, 1984, 20, 1087-1098.	4.2	168
93	Differences in flood hazard projections in Europe â€“ their causes and consequences for decision making. Hydrological Sciences Journal, 0, , .	2.6	74