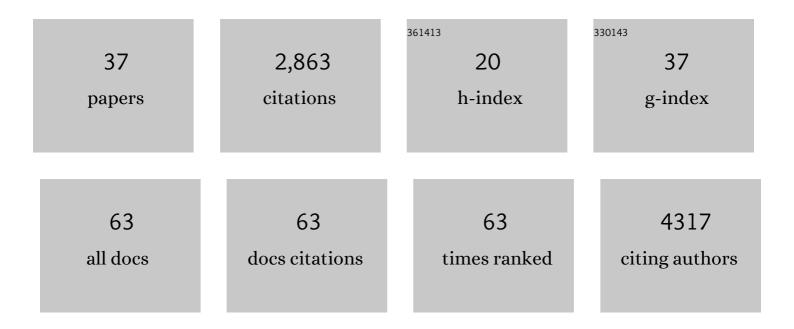
## Gautam Bisht

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	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
2	The DOE E3SM Coupled Model Version 1: Overview and Evaluation at Standard Resolution. Journal of Advances in Modeling Earth Systems, 2019, 11, 2089-2129.	3.8	404
3	Estimation of the net radiation using MODIS (Moderate Resolution Imaging Spectroradiometer) data for clear sky days. Remote Sensing of Environment, 2005, 97, 52-67.	11.0	296
4	Estimation and comparison of evapotranspiration from MODIS and AVHRR sensors for clear sky days over the Southern Great Plains. Remote Sensing of Environment, 2006, 103, 1-15.	11.0	176
5	Estimation of net radiation from the MODIS data under all sky conditions: Southern Great Plains case study. Remote Sensing of Environment, 2010, 114, 1522-1534.	11.0	173
6	Impact of deforestation in the Amazon basin on cloud climatology. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3670-3674.	7.1	143
7	Comparison of evaporative fractions estimated from AVHRR and MODIS sensors over South Florida. Remote Sensing of Environment, 2004, 93, 77-86.	11.0	97
8	Representing Nitrogen, Phosphorus, and Carbon Interactions in the E3SM Land Model: Development and Global Benchmarking. Journal of Advances in Modeling Earth Systems, 2019, 11, 2238-2258.	3.8	74
9	Vegetation controls on soil moisture distribution in the Valles Caldera, New Mexico, during the North American monsoon. Ecohydrology, 2008, 1, 225-238.	2.4	66
10	Representing northern peatland microtopography and hydrology within the Community Land Model. Biogeosciences, 2015, 12, 6463-6477.	3.3	66
11	The DOE E3SM v1.1 Biogeochemistry Configuration: Description and Simulated Ecosystemâ€Climate Responses to Historical Changes in Forcing. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001766.	3.8	65
12	Precipitation Variability over the Forest-to-Nonforest Transition in Southwestern Amazonia. Journal of Climate, 2011, 24, 2368-2377.	3.2	53
13	Estimation of Net Radiation From the Moderate Resolution Imaging Spectroradiometer Over the Continental United States. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 2448-2462.	6.3	46
14	A parameterization of sub-grid topographical effects on solar radiation in the E3SM Land Model (version 1.0): implementation and evaluation over the Tibetan Plateau. Geoscientific Model Development, 2021, 14, 6273-6289.	3.6	36
15	Modeling the spatiotemporal variability in subsurface thermal regimes across a low-relief polygonal tundra landscape. Cryosphere, 2016, 10, 2241-2274.	3.9	29
16	Improving Representation of Deforestation Effects on Evapotranspiration in the E3SM Land Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 2412-2427.	3.8	28
17	Impact of Intra-meander Hyporheic Flow on Nitrogen Cycling. Procedia Earth and Planetary Science, 2017, 17, 404-407.	0.6	26
18	Coupling a three-dimensional subsurface flow and transport model with a land surface model to simulate stream–aquifer–land interactions (CPÂv1.0). Geoscientific Model Development, 2017, 10, 4539-4562.	3.6	25

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#	Article	IF	CITATIONS
19	A reduced-order modeling approach to represent subgrid-scale hydrological dynamics for land-surface simulations: application in a polygonal tundra landscape. Geoscientific Model Development, 2014, 7, 2091-2105.	3.6	22
20	Development and evaluation of a variably saturated flow model in the global E3SM Land Model (ELM) version 1.0. Geoscientific Model Development, 2018, 11, 4085-4102.	3.6	22
21	Breaking Down the Computational Barriers to Realâ€Time Urban Flood Forecasting. Geophysical Research Letters, 2021, 48, e2021GL093585.	4.0	21
22	Root lateral interactions drive water uptake patterns under water limitation. Advances in Water Resources, 2021, 151, 103896.	3.8	20
23	Validation of the Community Land Model Version 5 Over the Contiguous United States (CONUS) Using In Situ and Remote Sensing Data Sets. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033539.	3.3	19
24	A comparison among different modified Priestley and Taylor equations to calculate actual evapotranspiration with MODIS data. International Journal of Remote Sensing, 2011, 32, 1319-1338.	2.9	17
25	Impacts of microtopographic snow redistribution and lateral subsurface processes on hydrologic and thermal states in an Arctic polygonal ground ecosystem: a case study using ELM-3D v1.0. Geoscientific Model Development, 2018, 11, 61-76.	3.6	17
26	Effects of Irrigation on Water, Carbon, and Nitrogen Budgets in a Semiarid Watershed in the Pacific Northwest: A Modeling Study. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001953.	3.8	15
27	Coupling surface flow with high-performance subsurface reactive flow and transport code PFLOTRAN. Environmental Modelling and Software, 2021, 137, 104959.	4.5	15
28	Addressing numerical challenges in introducing a reactive transport code into a land surface model: a biogeochemical modeling proof-of-concept with CLM–PFLOTRAN 1.0. Geoscientific Model Development, 2016, 9, 927-946.	3.6	14
29	Impacts of Subâ€Grid Topographic Representations on Surface Energy Balance and Boundary Conditions in the E3SM Land Model: A Case Study in Sierra Nevada. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	14
30	Advances in hexagon mesh-based flow direction modeling. Advances in Water Resources, 2022, 160, 104099.	3.8	9
31	A Hybrid Reducedâ€Order Model of Fineâ€Resolution Hydrologic Simulations at a Polygonal Tundra Site. Vadose Zone Journal, 2016, 15, 1-14.	2.2	8
32	Modeling the Joint Effects of Vegetation Characteristics and Soil Properties on Ecosystem Dynamics in a Panama Tropical Forest. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	8
33	Spatial and temporal variations of thaw layer thickness and its controlling factors identified using time-lapse electrical resistivity tomography and hydro-thermal modeling. Journal of Hydrology, 2018, 561, 751-763.	5.4	6
34	Impact of Vegetation Physiology and Phenology on Watershed Hydrology in a Semiarid Watershed in the Pacific Northwest in a Changing Climate. Water Resources Research, 2021, 57, e2020WR028394.	4.2	6
35	Development and Verification of a Numerical Library for Solving Global Terrestrial Multiphysics Problems. Journal of Advances in Modeling Earth Systems, 2019, 11, 1516-1542.	3.8	5
36	Spatial heterogeneity effects on land surface modeling of water and energy partitioning. Geoscientific Model Development, 2022, 15, 5489-5510.	3.6	4

#	Article	IF	CITATIONS
37	Using a surrogate-assisted Bayesian framework to calibrate the runoff-generation scheme in the Energy Exascale Earth System Model (E3SM) v1. Geoscientific Model Development, 2022, 15, 5021-5043.	3.6	3