

Sagy Cohen

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,537
citations

331538

21
h-index

315616

38
g-index

54
all docs

54
docs citations

54
times ranked

1876
citing authors

#	ARTICLE	IF	CITATIONS
1	Global suspended sediment and water discharge dynamics between 1960 and 2010: Continental trends and intra-basin sensitivity. <i>Global and Planetary Change</i> , 2014, 115, 44-58.	1.6	135
2	Calibration of satellite measurements of river discharge using a global hydrology model. <i>Journal of Hydrology</i> , 2012, 475, 123-136.	2.3	112
3	Projections of declining fluvial sediment delivery to major deltas worldwide in response to climate change and anthropogenic stress. <i>Environmental Research Letters</i> , 2019, 14, 084034.	2.2	106
4	WBMsed, a distributed global-scale riverine sediment flux model: Model description and validation. <i>Computers and Geosciences</i> , 2013, 53, 80-93.	2.0	100
5	How important and different are tropical rivers? – An overview. <i>Geomorphology</i> , 2014, 227, 5-17.	1.1	96
6	A global network for operational flood risk reduction. <i>Environmental Science and Policy</i> , 2018, 84, 149-158.	2.4	89
7	Estimating Floodwater Depths from Flood Inundation Maps and Topography. <i>Journal of the American Water Resources Association</i> , 2018, 54, 847-858.	1.0	85
8	An integrated evaluation of the National Water Model (NWM) – Height Above Nearest Drainage (HAND) flood mapping methodology. <i>Natural Hazards and Earth System Sciences</i> , 2019, 19, 2405-2420.	1.5	64
9	The mARM spatially distributed soil evolution model: A computationally efficient modeling framework and analysis of hillslope soil surface organization. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	49
10	Sensitivity of urban flood simulations to stormwater infrastructure and soil infiltration. <i>Journal of Hydrology</i> , 2020, 588, 125028.	2.3	49
11	Intercomparison of Satellite Remote Sensing – Based Flood Inundation Mapping Techniques. <i>Journal of the American Water Resources Association</i> , 2018, 54, 834-846.	1.0	45
12	Projections of historical and 21st century fluvial sediment delivery to the Ganges-Brahmaputra-Meghna, Mahanadi, and Volta deltas. <i>Science of the Total Environment</i> , 2018, 642, 105-116.	3.9	45
13	The Floodwater Depth Estimation Tool (FwDET v2.0) for improved remote sensing analysis of coastal flooding. <i>Natural Hazards and Earth System Sciences</i> , 2019, 19, 2053-2065.	1.5	43
14	Organic forms dominate hydrologic nitrogen export from a lowland tropical watershed. <i>Ecology</i> , 2015, 96, 1229-1241.	1.5	40
15	The mARM3D spatially distributed soil evolution model: Three-dimensional model framework and analysis of hillslope and landform responses. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	37
16	A methodology for calculating the spatial distribution of the area-slope equation and the hypsometric integral within a catchment. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	34
17	A global erodibility index to represent sediment production potential of different rock types. <i>Applied Geography</i> , 2018, 101, 36-44.	1.7	32
18	LATITUDINAL CONTROLS ON SILICICLASTIC SEDIMENT PRODUCTION AND TRANSPORT. , 2019, , 14-28.		29

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19	Featured Collection Introduction: National Water Model. <i>Journal of the American Water Resources Association</i> , 2018, 54, 767-769.	1.0	28
20	Global river slope: A new geospatial dataset and global-scale analysis. <i>Journal of Hydrology</i> , 2018, 563, 1057-1067.	2.3	28
21	Using a landform evolution model to study ephemeral gullying in agricultural fields: the effects of rainfall patterns on ephemeral gully dynamics. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 1213-1226.	1.2	24
22	Exploring the sensitivity on a soil area-slope-grading relationship to changes in process parameters using a pedogenesis model. <i>Earth Surface Dynamics</i> , 2016, 4, 607-625.	1.0	22
23	River temperature and the thermal-dynamic transport of sediment. <i>Global and Planetary Change</i> , 2019, 178, 168-183.	1.6	21
24	Climate-induced trends in global riverine water discharge and suspended sediment dynamics in the 21st century. <i>Global and Planetary Change</i> , 2020, 191, 103199.	1.6	21
25	The effects of sediment transport, weathering, and aeolian mechanisms on soil evolution. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 260-274.	1.0	20
26	Fuzzy-based dynamic soil erosion model (FuDSEM): Modelling approach and preliminary evaluation. <i>Journal of Hydrology</i> , 2008, 356, 185-198.	2.3	18
27	Comparative Analysis of Inundation Mapping Approaches for the 2016 Flood in the Brazos River, Texas. <i>Journal of the American Water Resources Association</i> , 2018, 54, 820-833.	1.0	18
28	Soil landscape response to mid and late Quaternary climate fluctuations based on numerical simulations. <i>Quaternary Research</i> , 2013, 79, 452-457.	1.0	16
29	A new large-scale suspended sediment model and its application over the United States. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 665-688.	1.9	14
30	Google Earth Engine Implementation of the Floodwater Depth Estimation Tool (FwDET-GEE) for Rapid and Large Scale Flood Analysis. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5.	1.4	13
31	Predicting 21st century global agricultural land use with a spatially and temporally explicit regression-based model. <i>Applied Geography</i> , 2015, 62, 366-376.	1.7	11
32	Data-Driven, Multi-Model Workflow Suggests Strong Influence from Hurricanes on the Generation of Turbidity Currents in the Gulf of Mexico. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 586.	1.2	11
33	Spatial Trends and Drivers of Bedload and Suspended Sediment Fluxes in Global Rivers. <i>Water Resources Research</i> , 2022, 58, .	1.7	10
34	Representing Global Soil Erosion and Sediment Flux in Earth System Models. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, e2021MS002756.	1.3	9
35	Derivation of spatially detailed lentic habitat map and inventory at a basin scale by integrating multispectral Sentinel-2 satellite imagery and USGS Digital Elevation Models. <i>Journal of Hydrology</i> , 2021, 603, 126876.	2.3	8
36	A Review of Satellite Remote Sensing Techniques of River Delta Morphology Change. <i>Remote Sensing in Earth Systems Sciences</i> , 2021, 4, 44-75.	1.1	6

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37	The influence of geomorphic unit spatial distribution on nitrogen retention and removal in a large river. <i>Ecological Modelling</i> , 2016, 336, 26-35.	1.2	5
38	The influence of an extended Atlantic hurricane season on inland flooding potential in the southeastern United States. <i>Natural Hazards and Earth System Sciences</i> , 2017, 17, 439-447.	1.5	5
39	Communities and Areas at Intensive Risk in the Mid-Atlantic Region: A Reanalysis of 2011 Hurricane Irene with Future Sea Level Rise and Land Subsidence. , 2018, , .		5
40	NASA's Mid-Atlantic Communities and Areas at Intensive Risk Demonstration: : Translating Compounding Hazards to Societal Risk. , 2018, , .		5
41	The Role of Realistic Channel Geometry Representation in Hydrological Model Predictions. <i>Journal of the American Water Resources Association</i> , 2021, 57, 222-240.	1.0	5
42	Soilscape evolution of aeolian-dominated hillslopes during the Holocene: investigation of sediment transport mechanisms and climatic“anthropogenic drivers. <i>Earth Surface Dynamics</i> , 2017, 5, 101-112.	1.0	4
43	An assessment of the fluvial geomorphology of subcatchments in Parana Valles, Mars. <i>Geomorphology</i> , 2013, 183, 96-109.	1.1	3
44	Estimating floodwater depths from flood inundation maps and topography. , 2018, , .		2
45	An Open-Source Python Library for Varying Model Parameters and Automating Concurrent Simulations of the National Water Model. <i>Journal of the American Water Resources Association</i> , 0, , .	1.0	1