Sagy Cohen

List of Publications by Year
in descending order

45 papers	1,537 citations

331259

21 h-index	

315357

38 g-index

54 all docs	54 docs citations	54 times ranked	1876 citing authors

#	Article	IF	Citations
1	Google Earth Engine Implementation of the Floodwater Depth Estimation Tool (FwDET-GEE) for Rapid and Large Scale Flood Analysis. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	13
2	Representing Global Soil Erosion and Sediment Flux in Earth System Models. Journal of Advances in Modeling Earth Systems, 2022, 14, e2021MS002756.	1.3	9
3	A new large-scale suspended sediment model and its application over the United States. Hydrology and Earth System Sciences, 2022, 26, 665-688.	1.9	14
4	Spatial Trends and Drivers of Bedload and Suspended Sediment Fluxes in Global Rivers. Water Resources Research, 2022, 58, .	1.7	10
5	The Role of Realistic Channel Geometry Representation in Hydrological Model Predictions. Journal of the American Water Resources Association, 2021, 57, 222-240.	1.0	5
6	A Review of Satellite Remote Sensing Techniques of River Delta Morphology Change. Remote Sensing in Earth Systems Sciences, 2021, 4, 44-75.	1.1	6
7	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. Journal of Hydrology, 2021, 603, 126876.	2.3	8
8	Data-Driven, Multi-Model Workflow Suggests Strong Influence from Hurricanes on the Generation of Turbidity Currents in the Gulf of Mexico. Journal of Marine Science and Engineering, 2020, 8, 586.	1.2	11
9	Sensitivity of urban flood simulations to stormwater infrastructure and soil infiltration. Journal of Hydrology, 2020, 588, 125028.	2.3	49
10	Climate-induced trends in global riverine water discharge and suspended sediment dynamics in the 21st century. Global and Planetary Change, 2020, 191, 103199.	1.6	21
11	The Floodwater Depth Estimation Tool (FwDET v2.0) for improved remote sensing analysis of coastal flooding. Natural Hazards and Earth System Sciences, 2019, 19, 2053-2065.	1.5	43
12	Projections of declining fluvial sediment delivery to major deltas worldwide in response to climate change and anthropogenic stress. Environmental Research Letters, 2019, 14, 084034.	2.2	106
13	River temperature and the thermal-dynamic transport of sediment. Global and Planetary Change, 2019, 178, 168-183.	1.6	21
14	An integrated evaluation of the National Water Model (NWM)–Height Above Nearest Drainage (HAND) flood mapping methodology. Natural Hazards and Earth System Sciences, 2019, 19, 2405-2420.	1.5	64
15	LATITUDINAL CONTROLS ON SILICICLASTIC SEDIMENT PRODUCTION AND TRANSPORT. , 2019, , 14-28.		29
16	Intercomparison of Satellite Remote Sensing–Based Flood Inundation Mapping Techniques. Journal of the American Water Resources Association, 2018, 54, 834-846.	1.0	45
17	Comparative Analysis of Inundation Mapping Approaches for the 2016 Flood in the Brazos River, Texas. Journal of the American Water Resources Association, 2018, 54, 820-833.	1.0	18
18	A global network for operational flood risk reduction. Environmental Science and Policy, 2018, 84, 149-158.	2.4	89

#	ARTICLE	IF	CITATIONS
19	Estimating Floodwater Depths from Flood Inundation Maps and Topography. Journal of the American Water Resources Association, 2018, 54, 847-858.	1.0	85
20	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
21	NASAâ€™s Mid-Atlantic Communities and Areas at Intensive Risk Demonstration: : Translating Compounding Hazards to Societal Risk. , 2018, , .		5
22	A global erodibility index to represent sediment production potential of different rock types. Applied Geography, 2018, 101, 36-44.	1.7	32
23	Featured Collection Introduction: National Water Model. Journal of the American Water Resources Association, 2018, 54, 767-769.	1.0	28
24	Global river slope: A new geospatial dataset and global-scale analysis. Journal of Hydrology, 2018, 563, 1057-1067.	2.3	28
25	Projections of historical and 21st century fluvial sediment delivery to the Ganges-Brahmaputra-Meghna, Mahanadi, and Volta deltas. Science of the Total Environment, 2018, 642, 105-116.	3.9	45
26	Estimating floodwater depths from flood inundation maps and topography. , 2018, , .		2
27	Using a landform evolution model to study ephemeral gullying in agricultural fields: the effects of rainfall patterns on ephemeral gully dynamics. Earth Surface Processes and Landforms, 2017, 42, 1213-1226.	1.2	24
28	The influence of an extended Atlantic hurricane season on inland flooding potential in the southeastern United States. Natural Hazards and Earth System Sciences, 2017, 17, 439-447.	1.5	5
29	Soilscape evolution of aeolian-dominated hillslopes during the Holocene: investigation of sediment transport mechanisms and climaticâ€"anthropogenic drivers. Earth Surface Dynamics, 2017, 5, 101-112.	1.0	4
30	Exploring the sensitivity on a soil area-slope-grading relationship to changes in process parameters using a pedogenesis model. Earth Surface Dynamics, 2016, 4, 607-625.	1.0	22
31	The influence of geomorphic unit spatial distribution on nitrogen retention and removal in a large river. Ecological Modelling, 2016, 336, 26-35.	1.2	5
32	Predicting 21st century global agricultural land use with a spatially and temporally explicit regression-based model. Applied Geography, 2015, 62, 366-376.	1.7	11
33	The effects of sediment transport, weathering, and aeolian mechanisms on soil evolution. Journal of Geophysical Research F: Earth Surface, 2015, 120, 260-274.	1.0	20
34	Organic forms dominate hydrologic nitrogen export from a lowland tropical watershed. Ecology, 2015, 96, 1229-1241.	1.5	40
35	How important and different are tropical rivers? â€" An overview. Geomorphology, 2014, 227, 5-17.	1.1	96
36	Global suspended sediment and water discharge dynamics between 1960 and 2010: Continental trends and intra-basin sensitivity. Global and Planetary Change, 2014, 115, 44-58.	1.6	135

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37	An assessment of the fluvial geomorphology of subcatchments in Parana Valles, Mars. Geomorphology, 2013, 183, 96-109.	1.1	3
38	WBMsed, a distributed global-scale riverine sediment flux model: Model description and validation. Computers and Geosciences, 2013, 53, 80-93.	2.0	100
39	Soilâ€"landscape response to mid and late Quaternary climate fluctuations based on numerical simulations. Quaternary Research, 2013, 79, 452-457.	1.0	16
40	Calibration of satellite measurements of river discharge using a global hydrology model. Journal of Hydrology, 2012, 475, 123-136.	2.3	112
41	The mARM3D spatially distributed soil evolution model: Threeâ€dimensional model framework and analysis of hillslope and landform responses. Journal of Geophysical Research, 2010, 115, .	3.3	37
42	The mARM spatially distributed soil evolution model: A computationally efficient modeling framework and analysis of hillslope soil surface organization. Journal of Geophysical Research, 2009, 114, .	3.3	49
43	Fuzzy-based dynamic soil erosion model (FuDSEM): Modelling approach and preliminary evaluation. Journal of Hydrology, 2008, 356, 185-198.	2.3	18
44	A methodology for calculating the spatial distribution of the areaâ€slope equation and the hypsometric integral within a catchment. Journal of Geophysical Research, 2008, 113, .	3.3	34
45	An Openâ€Source Python Library for Varying Model Parameters and Automating Concurrent Simulations of the National Water Model. Journal of the American Water Resources Association, 0, , .	1.0	1