

Arvind Singh

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,163
citations

361296

20
h-index

395590

33
g-index

58
all docs

58
docs citations

58
times ranked

908
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental evidence for statistical scaling and intermittency in sediment transport rates. Journal of Geophysical Research, 2009, 114, .	3.3	104
2	On the statistics of wind turbine wake meandering: An experimental investigation. Physics of Fluids, 2015, 27, .	1.6	70
3	On the influence of gravel bed dynamics on velocity power spectra. Water Resources Research, 2010, 46, .	1.7	66
4	Critical Nodes in River Networks. Scientific Reports, 2019, 9, 11178.	1.6	64
5	Multiscale statistical characterization of migrating bed forms in gravel and sand bed rivers. Water Resources Research, 2011, 47, .	1.7	60
6	Hydrologic controls on junction angle of river networks. Water Resources Research, 2017, 53, 4073-4083.	1.7	51
7	Landscape reorganization under changing climatic forcing: Results from an experimental landscape. Water Resources Research, 2015, 51, 4320-4337.	1.7	46
8	Subordinated Brownian motion model for sediment transport. Physical Review E, 2009, 80, 011111.	0.8	44
9	The influence of migrating bed forms on the velocityâ€intermittency structure of turbulent flow over a gravel bed. Geophysical Research Letters, 2013, 40, 1351-1355.	1.5	43
10	Effects of Freestream Turbulence in a Model Wind Turbine Wake. Energies, 2016, 9, 830.	1.6	39
11	Robust classification for the joint velocityâ€intermittency structure of turbulent flow over fixed and mobile bedforms. Earth Surface Processes and Landforms, 2014, 39, 1717-1728.	1.2	38
12	Coupled dynamics of the coâ€evolution of gravel bed topography, flow turbulence and sediment transport in an experimental channel. Journal of Geophysical Research, 2012, 117, .	3.3	37
13	On the homogenization of turbulent flow structures in the wake of a model wind turbine. Physics of Fluids, 2014, 26, .	1.6	37
14	Spectral description of migrating bed forms and sediment transport. Journal of Geophysical Research F: Earth Surface, 2014, 119, 123-137.	1.0	36
15	Quantifying Climatic Controls on River Network Branching Structure Across Scales. Water Resources Research, 2018, 54, 7347-7360.	1.7	29
16	Exploring a semimechanistic episodic Langevin model for bed load transport: Emergence of normal and anomalous advection and diffusion regimes. Water Resources Research, 2016, 52, 2789-2801.	1.7	26
17	Analytical Solution for Anomalous Diffusion of Bedload Tracers Gradually Undergoing Burial. Journal of Geophysical Research F: Earth Surface, 2019, 124, 21-37.	1.0	24
18	Scale-dependent erosional patterns in steady-state and transient-state landscapes. Science Advances, 2017, 3, e1701683.	4.7	23

#	ARTICLE	IF	CITATIONS
19	The complexity of gravel bed river topography examined with gradual wavelet reconstruction. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 682-700.	1.0	21
20	Optical Cloud Pixel Recovery via Machine Learning. <i>Remote Sensing</i> , 2017, 9, 527.	1.8	21
21	Transient Anomalous Diffusion and Advective Slowdown of Bedload Tracers by Particle Burial and Exhumation. <i>Water Resources Research</i> , 2019, 55, 7964-7982.	1.7	20
22	A velocity-variation-based formulation for bedload particle hops in rivers. <i>Journal of Fluid Mechanics</i> , 2021, 912, .	1.4	20
23	Reorganization of river networks under changing spatiotemporal precipitation patterns: An optimal channel network approach. <i>Water Resources Research</i> , 2016, 52, 8845-8860.	1.7	19
24	Nonlinearity and complexity in gravel bed dynamics. <i>Stochastic Environmental Research and Risk Assessment</i> , 2009, 23, 967-975.	1.9	18
25	A New Framework for Exploring Process Controls of Flow Duration Curves. <i>Water Resources Research</i> , 2020, 56, e2019WR026083.	1.7	17
26	Assessing the Resilience of Coastal Wetlands to Extreme Hydrologic Events Using Vegetation Indices: A Review. <i>Remote Sensing</i> , 2018, 10, 1390.	1.8	16
27	Bedform effect on the reorganization of surface and subsurface grain size distribution in gravel bedded channels. <i>Acta Geophysica</i> , 2012, 60, 1607-1638.	1.0	15
28	High-Frequency Sensor Data Reveal Across-Scale Nitrate Dynamics in Response to Hydrology and Biogeochemistry in Intensively Managed Agricultural Basins. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2168-2182.	1.3	15
29	A Mixed Length Scale Model for Migrating Fluvial Bedforms. <i>Geophysical Research Letters</i> , 2020, 47, e10.1029/2019GL086625.	1.5	12
30	StreamLab Collaboratory: Experiments, data sets, and research synthesis. <i>Water Resources Research</i> , 2013, 49, 1746-1752.	1.7	11
31	Emergent spectral properties of river network topology: an optimal channel network approach. <i>Scientific Reports</i> , 2017, 7, 11486.	1.6	11
32	On the effect of solute release position on plume dispersion. <i>Journal of Hydrology</i> , 2018, 566, 607-615.	2.3	11
33	Fate and transport of radioactive gypsum stack water entering the Floridan aquifer due to a sinkhole collapse. <i>Scientific Reports</i> , 2018, 8, 11439.	1.6	11
34	Climatic Controls on Landscape Dissection and Network Structure in the Absence of Vegetation. <i>Geophysical Research Letters</i> , 2019, 46, 3216-3224.	1.5	9
35	Resilience of coastal wetlands to extreme hydrologic events in Apalachicola Bay. <i>Geophysical Research Letters</i> , 2016, 43, 7529-7537.	1.5	8
36	Climate and Landscape Controls of Regional Patterns of Flow Duration Curves Across the Continental United States: Statistical Approach. <i>Water Resources Research</i> , 2020, 56, e2020WR028041.	1.7	8

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37	Wetland Dynamics Inferred from Spectral Analyses of Hydro-Meteorological Signals and Landsat Derived Vegetation Indices. <i>Remote Sensing</i> , 2020, 12, 12.	1.8	8
38	From turbulence to landscapes: Logarithmic mean profiles in bounded complex systems. <i>Physical Review E</i> , 2020, 102, 033107.	0.8	6
39	Entropy and Intermittency of River Bed Elevation Fluctuations. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005499.	1.0	6
40	Interbasin and Intrabasin Competitions Control Drainage Network Density. <i>Geophysical Research Letters</i> , 2019, 46, 661-669.	1.5	5
41	Conditioned Hypsometry: A Refinement to Classical Approach for the Characterization of Topography. <i>Water Resources Research</i> , 2020, 56, e2019WR025412.	1.7	5
42	A measure of scale-dependent asymmetry in turbulent boundary layer flows: scaling and Reynolds number similarity. <i>Journal of Fluid Mechanics</i> , 2016, 797, 549-563.	1.4	4
43	Consistent Long-Term Monthly Coastal Wetland Vegetation Monitoring Using a Virtual Satellite Constellation. <i>Remote Sensing</i> , 2021, 13, 438.	1.8	4
44	Hydro-geomorphic response of Everglades to changing climate and anthropogenic activities. <i>Journal of Hydrology</i> , 2016, 543, 861-872.	2.3	3
45	Controls of the Topological Connectivity on the Structural and Functional Complexity of River Networks. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087737.	1.5	3
46	Time Compression Approximation Relationship for Infiltration in the Presence of a Shallow Water Table: Evaluating the Role of Clet Number. <i>Water Resources Research</i> , 2018, 54, 9384-9397.	1.7	2
47	Can we infer the age of karst conduit from the profile of potentiometric surface?. <i>Journal of Hydrology</i> , 2020, 584, 124679.	2.3	2
48	Evaluating Landscape Complexity and the Contribution of Non-Local to Geomorphometry. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF005765.	1.0	2
49	Dynamic Clusters to Infer Topologic Controls on Environmental Transport of River Networks. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	2
50	Sediment Load and Grain Size Controls on Channel Migration Patterns in Experimental Deltas. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .	1.0	2
51	Reconstructing Sediment Transport by Migrating Bedforms in the Physical and Spectral Domains. <i>Water Resources Research</i> , 2022, 58, .	1.7	2
52	Landscape reorganization under changing climatic forcing: Results from an experimental landscape. , 2015, 51, 4320.		1
53	StreamLab Collaboratory: Experiments, data sets, and research synthesis. , 2013, 49, 1746.		1
54	Upstream Propagation of Sea Level Signals in Fluvio-Deltaic Environments: Time Lags and the Dynamics of the Fluvial Surface. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	1