

# Panayiotis Diplas

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

1,582  
citations

394390

19  
h-index

377849

34  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1098  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Role of Impulse on the Initiation of Particle Movement Under Turbulent Flow Conditions. <i>Science</i> , 2008, 322, 717-720.	12.6	277
2	Role of instantaneous force magnitude and duration on particle entrainment. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	128
3	Comparison of testing techniques and models for establishing the SWCC of riverbank soils. <i>Engineering Geology</i> , 2010, 110, 1-10.	6.3	101
4	Bedload Transport in Gravel-Bed Streams. <i>Journal of Hydraulic Engineering</i> , 1987, 113, 277-292.	1.5	91
5	Large Eddy Simulation of Turbulent Flow Through Submerged Vegetation. <i>Transport in Porous Media</i> , 2009, 78, 347-365.	2.6	90
6	Impulse and particle dislodgement under turbulent flow conditions. <i>Physics of Fluids</i> , 2010, 22, .	4.0	86
7	Entrainment of coarse particles in turbulent flows: An energy approach. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 42-53.	2.8	86
8	Applying spatial hydraulic principles to quantify stream habitat. <i>River Research and Applications</i> , 2006, 22, 79-89.	1.7	78
9	Entrainment of coarse grains in turbulent flows: An extreme value theory approach. <i>Water Resources Research</i> , 2011, 47, .	4.2	72
10	Determination of the shear strength of unsaturated soils using the multistage direct shear test. <i>Engineering Geology</i> , 2011, 122, 272-280.	6.3	67
11	Instantaneous turbulent forces and impulse on a rough bed: Implications for initiation of bed material movement. <i>Water Resources Research</i> , 2013, 49, 2213-2227.	4.2	65
12	Probability of Individual Grain Movement and Threshold Condition. <i>Journal of Hydraulic Engineering</i> , 2002, 128, 1069-1075.	1.5	57
13	Time-resolved flow dynamics and Reynolds number effects at a wall-cylinder junction. <i>Journal of Fluid Mechanics</i> , 2015, 776, 475-511.	3.4	53
14	Accounting for the role of turbulent flow on particle dislodgement via a coupled quadrant analysis of velocity and pressure sequences. <i>Advances in Water Resources</i> , 2017, 101, 37-48.	3.8	53
15	Impact of Three Gorges Dam operation on the spawning success of four major Chinese carps. <i>Ecological Engineering</i> , 2019, 127, 268-275.	3.6	31
16	Bed load sediment transport in ephemeral and perennial gravel bed streams. <i>Eos</i> , 2005, 86, 429.	0.1	29
17	A Unified Approach to Bed Load Transport Description Over a Wide Range of Flow Conditions via the Use of Conditional Data Treatment. <i>Water Resources Research</i> , 2018, 54, 3490-3509.	4.2	27
18	High-resolution 3D monitoring of evolving sediment beds. <i>Water Resources Research</i> , 2013, 49, 977-992.	4.2	26

#	ARTICLE	IF	CITATIONS
19	Approach to Separate Sand from Gravel for Bed-Load Transport Calculations in Streams with Bimodal Sediment. <i>Journal of Hydraulic Engineering</i> , 2006, 132, 1176-1185.	1.5	20
20	Quantitative Spatio-Temporal Characterization of Scour at the Base of a Cylinder. <i>Water (Switzerland)</i> , 2017, 9, 227.	2.7	18
21	Prediction of coarse particle movement with adaptive neuro-fuzzy inference systems. <i>Hydrological Processes</i> , 2011, 25, 3513-3524.	2.6	17
22	Data evaluation for acoustic Doppler current profiler measurements obtained at fixed locations in a natural river. <i>Water Resources Research</i> , 2013, 49, 1003-1016.	4.2	15
23	Combining fixed- and moving-vessel acoustic Doppler current profiler measurements for improved characterization of the mean flow in a natural river. <i>Water Resources Research</i> , 2013, 49, 5600-5614.	4.2	14
24	Simulation-based optimization of in-stream structures design: J-hook vanes. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2015, 53, 588-608.	1.7	12
25	Incipient motion of a non-cohesive particle under Stokes flow conditions. <i>International Journal of Multiphase Flow</i> , 2018, 99, 151-161.	3.4	11
26	Hydraulic Modeling of Extreme Hydrologic Events: Case Study in Southern Virginia. <i>Journal of Hydraulic Engineering</i> , 2014, 140, .	1.5	10
27	Effects of wall roughness on turbulent junction flow characteristics. <i>Experiments in Fluids</i> , 2016, 57, 1.	2.4	10
28	Laboratory and In Situ Determination of Hydraulic Conductivity and Their Validity in Transient Seepage Analysis. <i>Water (Switzerland)</i> , 2021, 13, 1131.	2.7	5
29	Flow dynamics in the vicinity of a gravel embedded vertical retaining wall: conditions corresponding to the initial stages of local erosion. <i>Environmental Fluid Mechanics</i> , 2020, 20, 203-225.	1.6	4
30	Modeling Hydro-morphodynamic Processes During the Propagation of Fluvial Sediment Pulses: A Physics-Based Framework. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2020JF005722.	2.8	4
31	Modal Analysis of Turbulent Flow near an Inclined Bank-Longitudinal Structure Junction. <i>Journal of Hydraulic Engineering</i> , 2021, 147, .	1.5	4
32	Elevation: a consistent and physically-based framework for classifying streams. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2018, 56, 299-312.	1.7	3
33	Threshold of Motion Conditions Under Stokes Flow Regime and Comparison With Turbulent Flow Data. <i>Water Resources Research</i> , 2019, 55, 10872-10892.	4.2	3
34	Effects of Hydropower Dam Operation on Riverbank Stability. <i>Infrastructures</i> , 2021, 6, 127.	2.8	1
35	The Role of Turbulence on the Initiation of Sediment Movement. , 2009, , .		0
36	Special Issue on River Flow Hydrodynamics: Physical and Ecological Aspects. <i>Journal of Hydraulic Engineering</i> , 2010, 136, 965-966.	1.5	0

#	ARTICLE	IF	CITATIONS
37	Review of "River Training and Sediment Management with Submerged Vanes" by A. Jacob Odgaard "River Training and Sediment Management with Submerged Vanes" ASCE Press \$75.00. Journal of Hydraulic Engineering, 2010, 136, 90-91.	1.5	0