

# David F Vetsch

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8757363/publications.pdf>

Version: 2024-02-01

24  
papers

400  
citations

840585

11  
h-index

794469

19  
g-index

30  
all docs

30  
docs citations

30  
times ranked

500  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling vegetation controls on fluvial morphological trajectories. <i>Geophysical Research Letters</i> , 2014, 41, 7167-7175.	1.5	119
2	Hydropower Potential in the Periglacial Environment of Switzerland under Climate Change. <i>Sustainability</i> , 2018, 10, 2794.	1.6	30
3	Numerical modelling of non-cohesive embankment breach with the dual-mesh approach. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2012, 50, 587-598.	0.7	29
4	When Does Vegetation Establish on Gravel Bars? Observations and Modeling in the Alpine Rhine River. <i>Frontiers in Environmental Science</i> , 2019, 7, .	1.5	23
5	Numerical Simulation of Air-Water Two-Phase Flow on Stepped Spillways Behind X-Shaped Flaring Gate Piers under Very High Unit Discharge. <i>Water (Switzerland)</i> , 2019, 11, 1956.	1.2	22
6	Metamodeling for Uncertainty Quantification of a Flood Wave Model for Concrete Dam Breaks. <i>Energies</i> , 2020, 13, 3685.	1.6	21
7	basement v3: A modular freeware for river process modelling over multiple computational backends. <i>Environmental Modelling and Software</i> , 2021, 143, 105102.	1.9	20
8	Development of Probabilistic Dam Breach Model Using Bayesian Inference. <i>Water Resources Research</i> , 2018, 54, 4376-4400.	1.7	17
9	Continuous Seasonal and Large-Scale Periglacial Reservoir Sedimentation. <i>Sustainability</i> , 2018, 10, 3265.	1.6	14
10	Swimming Behavior of Downstream Moving Fish at Innovative Curved-Bar Rack Bypass Systems for Fish Protection at Water Intakes. <i>Water (Switzerland)</i> , 2020, 12, 3244.	1.2	13
11	Numerical embankment breach modelling including seepage flow effects. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2017, 55, 480-490.	0.7	12
12	Assessment of flow field and sediment flux at alpine desanding facilities. <i>International Journal of River Basin Management</i> , 2017, 15, 287-295.	1.5	11
13	A model study of the combined effect of above and below ground plant traits on the ecomorphodynamics of gravel bars. <i>Scientific Reports</i> , 2020, 10, 17062.	1.6	10
14	Numerical simulation of air entrainment in uniform chute flow. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2021, 59, 378-391.	0.7	9
15	Conceptual Approach for Positioning of Fish Guidance Structures Using CFD and Expert Knowledge. <i>Sustainability</i> , 2019, 11, 1646.	1.6	8
16	How does sediment supply influence refugia availability in river widenings?. <i>Journal of Ecohydraulics</i> , 2021, 6, 121-138.	1.6	7
17	Enhancing an unsupervised clustering algorithm with a spatial contiguity constraint for river habitat analysis. <i>Ecohydrology</i> , 2021, 14, e2285.	1.1	7
18	Modeling Streambank and Artificial Gravel Deposit Erosion for Sediment Replenishment. <i>Water (Switzerland)</i> , 2018, 10, 508.	1.2	6

#	ARTICLE	IF	CITATIONS
19	Measuring suspended sediments in periglacial reservoirs using water samples, laser in-situ scattering and transmissometry and acoustic Doppler current profiler. <i>International Journal of River Basin Management</i> , 2017, 15, 413-431.	1.5	4
20	Morphological development of river widenings with variable sediment supply. <i>E3S Web of Conferences</i> , 2018, 40, 02007.	0.2	4
21	A Simplified Classification of the Relative Tsunami Potential in Swiss Perialpine Lakes Caused by Subaqueous and Subaerial Mass-Movements. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	4
22	Design of Desanding Facilities for Hydropower Schemes Based on Trapping Efficiency. <i>Water (Switzerland)</i> , 2022, 14, 520.	1.2	3
23	Shallowâ€Water Tsunami Deposits: Evidence From Sediment Cores and Numerical Wave Propagation of the 1601 CE Lake Lucerne Event. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, .	1.0	3
24	Experimental setup for flow and sediment flux characterization at desanding facilities. <i>Flow Measurement and Instrumentation</i> , 2017, 54, 197-204.	1.0	2