John Pitlick

List of Publications by Year in descending order

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40 papers	3,119 citations	185998 28 h-index	315357 38 g-index
41 all docs	41 docs citations	41 times ranked	2864 citing authors

#	Article	IF	Citations
1	Seasonal Cycle Shifts in Hydroclimatology over the Western United States. Journal of Climate, 2005, 18, 372-384.	1.2	408
2	Physical basis for quasiâ€universal relations describing bankfull hydraulic geometry of singleâ€thread gravel bed rivers. Journal of Geophysical Research, 2007, 112, .	3.3	342
3	Variability of bed mobility in natural, gravel-bed channels and adjustments to sediment load at local and reach scales. Water Resources Research, 2000, 36, 3743-3755.	1.7	190
4	Variation in the reference Shields stress for bed load transport in gravel-bed streams and rivers. Water Resources Research, 2005, 41, .	1.7	190
5	Formation of Martian gullies by the action of liquid water flowing under current Martian environmental conditions. Journal of Geophysical Research, 2005, 110, .	3.3	143
6	Observations of Flow and Sediment Entrainment on a Large Gravel-Bed River. Water Resources Research, 1996, 32, 2897-2909.	1.7	115
7	Relation between peak flows, precipitation, and physiography for five mountainous regions in the western USA. Journal of Hydrology, 1994, 158, 219-240.	2.3	114
8	Sediment supply and channel morphology in mountain river systems: 1. Relative importance of lithology, topography, and climate. Journal of Geophysical Research F: Earth Surface, 2013, 118, 2325-2342.	1.0	107
9	Magnitude-frequency of bed load transport in mountain streams in Colorado. Journal of Hydrology, 2004, 290, 137-151.	2.3	104
10	Flow resistance under conditions of intense gravel transport. Water Resources Research, 1992, 28, 891-903.	1.7	91
11	Interparticle collision of natural sediment grains in water. Water Resources Research, 2001, 37, 2377-2391.	1.7	91
12	Geomorphology and endangered fish habitats of the upper Colorado River: 1. Historic changes in streamflow, sediment load, and channel morphology. Water Resources Research, 1998, 34, 287-302.	1.7	86
13	Spatial and temporal variations in bed load transport intensity in a gravel bed river bend. Water Resources Research, 2007, 43, .	1.7	86
14	Camera system considerations for geomorphic applications of SfM photogrammetry. Earth Surface Processes and Landforms, 2017, 42, 969-986.	1.2	85
15	Geomorphology and endangered fish habitats of the upper Colorado River: 2. Linking sediment transport to habitat maintenance. Water Resources Research, 1998, 34, 303-316.	1.7	79
16	Sediment supply and channel morphology in mountain river systems: 2. Single thread to braided transitions. Journal of Geophysical Research F: Earth Surface, 2014, 119, 1516-1541.	1.0	78
17	Response and recovery of a subalpine stream following a catastrophic flood. Bulletin of the Geological Society of America, 1993, 105, 657-670.	1.6	75
18	In situ determination of particle friction angles of fluvial gravels. Water Resources Research, 1998, 34, 2017-2030.	1.7	75

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19	Relation between flow, surfaceâ€layer armoring and sediment transport in gravelâ€bed rivers. Earth Surface Processes and Landforms, 2008, 33, 1192-1209.	1.2	72
20	Morphologically based model of bed load transport capacity in a headwater stream. Journal of Geophysical Research, 2005, 110, .	3.3	59
21	Downstream changes in the channel geometry of a large gravel bed river. Water Resources Research, 2002, 38, 34-1-34-11.	1.7	55
22	Effects of sediment transport and seepage direction on hydraulic properties at the sedimentâ€“water interface of hyporheic settings. Journal of Hydrology, 2009, 373, 377-391.	2.3	50
23	Persistence of the surface texture of a gravelâ€bed river during a large flood. Earth Surface Processes and Landforms, 2008, 33, 661-673.	1.2	48
24	Variability of bed load measurement. Water Resources Research, 1988, 24, 173-177.	1.7	46
25	Using repeat lidar to estimate sediment transport in a steep stream. Journal of Geophysical Research F: Earth Surface, 2014, 119, 621-643.	1.0	37
26	Characterizing the transient geomorphic response to baseâ€level fall in the northeastern Tibetan Plateau. Journal of Geophysical Research F: Earth Surface, 2017, 122, 546-572.	1.0	36
27	A Regional Perspective of the Hydrology of the 1993 Mississippi River Basin Floods. Annals of the American Association of Geographers, 1997, 87, 135-151.	3.0	35
28	Scaling frequency of channelâ€forming flows in snowmeltâ€dominated streams. Water Resources Research, 2010, 46, .	1.7	29
29	Concentrationâ€discharge relationships during an extreme event: Contrasting behavior of solutes and changes to chemical quality of dissolved organic material in the <scp>B</scp>ould<scp>C</scp>reek <scp>W</scp>atershed during the <scp>S</scp>eptember 2013 flood. Water Resources Research, 2017, 53, 5276-5297.	1.7	26
30	Width adjustment in experimental gravelâ€bed channels in response to overbank flows. Journal of Geophysical Research F: Earth Surface, 2013, 118, 553-570.	1.0	24
31	Effects of Streambed Conductance on Stream Depletion. Water (Switzerland), 2015, 7, 271-287.	1.2	24
32	The influence of channel bed disturbance on algal biomass in a Colorado mountain stream. Ecohydrology, 2011, 4, 411-421.	1.1	23
33	Use of Shields stress to reconstruct and forecast changes in river metabolism. Freshwater Biology, 2007, 52, 1587-1601.	1.2	21
34	Lithologyâ€controlled evolution of stream bed sediment and basinâ€scale sediment yields in adjacent mountain watersheds, Idaho, USA. Earth Surface Processes and Landforms, 2016, 41, 1869-1883.	1.2	20
35	Coupling fluvialâ€hydraulic models to predict gravel transport in spatially variable flows. Journal of Geophysical Research F: Earth Surface, 2015, 120, 834-855.	1.0	19
36	Sediment transport at the network scale and its link to channel morphology in the braided Vjosa River system. Earth Surface Processes and Landforms, 2021, 46, 2946-2962.	1.2	13

#	Article	IF	Citations
37	Running water: fluvial geomorphology and river restoration. , 2002, , 133-152.		6
38	Exaggerated Stream Depletion in Streams with Spatiotemporally Varying Streambed Conductance. Journal of Hydrologic Engineering - ASCE, 2021, 26, 04020066.	0.8	5
39	Sediment Production in French Alpine Rivers. Water Resources Research, 2021, 57, e2021WR030470.	1.7	5
40	FLOOD-FREQUENCY ANALYSIS FOR THE SANTA YNEZ RIVER AND ADJACENT REGION, CALIFORNIA. Physical Geography, 1995, 16, 419-431.	0.6	0