

Peter A Nelson

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,469
citations

361413
20
h-index

377865
34
g-index

40
all docs

40
docs citations

40
times ranked

1281
citing authors

#	ARTICLE	IF	CITATIONS
1	Response of bed surface patchiness to reductions in sediment supply. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	116
2	Field studies of the storm event hydrologic response in an urbanizing watershed. <i>Water Resources Research</i> , 2005, 41, .	4.2	107
3	Translation and dispersion of sediment pulses in flume experiments simulating gravel augmentation below dams. <i>Water Resources Research</i> , 2009, 45, .	4.2	99
4	Mobilization of coarse surface layers in gravel-bedded rivers by finer gravel bed load. <i>Water Resources Research</i> , 2010, 46, .	4.2	98
5	Application of Structure-from-Motion photogrammetry in laboratory flumes. <i>Geomorphology</i> , 2017, 276, 125-143.	2.6	89
6	Evolution of channel morphology and hydrologic response in an urbanizing drainage basin. <i>Earth Surface Processes and Landforms</i> , 2006, 31, 1063-1079.	2.5	83
7	Extraordinary Flood Response of a Small Urban Watershed to Short-Duration Convective Rainfall. <i>Journal of Hydrometeorology</i> , 2005, 6, 599-617.	1.9	80
8	Effect of sediment pulse grain size on sediment transport rates and bed mobility in gravel bed rivers. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	77
9	Alternate bar response to sediment supply termination. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	73
10	Effects of Urbanization on Flow Duration and Stream Flashiness: A Case Study of Puget Sound Streams, Western Washington, <sc>USA</sc>. <i>Journal of the American Water Resources Association</i> , 2017, 53, 493-507.	2.4	58
11	Bed topography and the development of forced bed surface patches. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	54
12	Redistribution of pyrogenic carbon from hillslopes to stream corridors following a large montane wildfire. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1348-1355.	4.9	51
13	Morphodynamic response of a variable-width channel to changes in sediment supply. <i>Water Resources Research</i> , 2015, 51, 5717-5734.	4.2	49
14	Modeling the evolution of bedrock channel shape with erosion from saltating bed load. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	47
15	A theoretical framework for the morphodynamics of bedrock channels. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	44
16	How do geomorphic effects of rainfall vary with storm type and spatial scale in a post-fire landscape?. <i>Geomorphology</i> , 2016, 273, 39-51.	2.6	43
17	Delineation of river bed-surface patches by clustering high-resolution spatial grain size data. <i>Geomorphology</i> , 2014, 205, 102-119.	2.6	42
18	Catastrophic flooding from an orographic thunderstorm in the central Appalachians. <i>Water Resources Research</i> , 2005, 41, .	4.2	33

#	ARTICLE	IF	CITATIONS
19	Reconstructing extreme post-wildfire floods: a comparison of convective and mesoscale events. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 2505-2522.	2.5	26
20	Coevolution of bed surface patchiness and channel morphology: 1. Mechanisms of forced patch formation. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 1687-1707.	2.8	22
21	Finite amplitude bars in mixed bedrock-alluvial channels. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 566-587.	2.8	19
22	Geomorphic complexity and sensitivity in channels to fire and floods in mountain catchments. <i>Geomorphology</i> , 2019, 337, 53-68.	2.6	18
23	Spatial and temporal patterns of sediment storage and erosion following a wildfire and extreme flood. <i>Earth Surface Dynamics</i> , 2019, 7, 563-590.	2.4	17
24	Flume experiments on flow and sediment supply controls on gravel bedform dynamics. <i>Geomorphology</i> , 2018, 323, 98-105.	2.6	16
25	Coevolution of bed surface patchiness and channel morphology: 2. Numerical experiments. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 1708-1723.	2.8	15
26	Alternate bar dynamics in response to increases and decreases of sediment supply. <i>Sedimentology</i> , 2018, 65, 702-720.	3.1	11
27	PEMIP: Post-fire erosion model inter-comparison project. <i>Journal of Environmental Management</i> , 2020, 268, 110704.	7.8	11
28	Modeling grain size adjustments in the downstream reach following runoff-river development. <i>Water Resources Research</i> , 2016, 52, 2770-2788.	4.2	8
29	Full Spectrum Analytical Channel Design with the Capacity/Supply Ratio (CSR). <i>Water (Switzerland)</i> , 2017, 9, 271.	2.7	7
30	Morphodynamic Modeling of Sediment Pulse Dynamics. <i>Water Resources Research</i> , 2019, 55, 8691-8707.	4.2	6
31	Experimental investigation of the morphodynamic response of riffles and pools to unsteady flow and increased sediment supply. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 869-886.	2.5	6
32	The effect of flow data resolution on sediment yield estimation and channel design. <i>Journal of Hydrology</i> , 2016, 538, 429-439.	5.4	5
33	Field scale test of multi-dimensional flow and morphodynamic simulations used for restoration design analysis. , 2016, , .		4
34	Bed and Bank Stress Partitioning in Bedrock Rivers. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .	2.8	4
35	Modeling hydrologic processes associated with soil saturation and debris flow initiation during the September 2013 storm, Colorado Front Range. <i>Landslides</i> , 2021, 18, 1741-1759.	5.4	3
36	Hydro- and morphodynamics of riffle-pool sequences in the middle Elwha River, Washington, USA. , 2016, , .		1

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37	Sediment patches, sediment supply, and channel morphology. , 2006, , .		1