

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	Bed and Bank Stress Partitioning in Bedrock Rivers. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .	2.8	4
2	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
3	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
4	PEMIP: Post-fire erosion model inter-comparison project. <i>Journal of Environmental Management</i> , 2020, 268, 110704.	7.8	11
5	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
6	Morphodynamic Modeling of Sediment Pulse Dynamics. <i>Water Resources Research</i> , 2019, 55, 8691-8707.	4.2	6
7	Geomorphic complexity and sensitivity in channels to fire and floods in mountain catchments. <i>Geomorphology</i> , 2019, 337, 53-68.	2.6	18
8	Alternate bar dynamics in response to increases and decreases of sediment supply. <i>Sedimentology</i> , 2018, 65, 702-720.	3.1	11
9	Flume experiments on flow and sediment supply controls on gravel bedform dynamics. <i>Geomorphology</i> , 2018, 323, 98-105.	2.6	16
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	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
12	Application of Structure-from-Motion photogrammetry in laboratory flumes. <i>Geomorphology</i> , 2017, 276, 125-143.	2.6	89
13	Full Spectrum Analytical Channel Design with the Capacity/Supply Ratio (CSR). <i>Water (Switzerland)</i> , 2017, 9, 271.	2.7	7
14	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
15	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
16	Modeling grain size adjustments in the downstream reach following runoff river development. <i>Water Resources Research</i> , 2016, 52, 2770-2788.	4.2	8
17	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
18	Hydro- and morphodynamics of riffle-pool sequences in the middle Elwha River, Washington, USA. , 2016, , .		1

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19	Field scale test of multi-dimensional flow and morphodynamic simulations used for restoration design analysis. , 2016, , .		4
20	Morphodynamic response of a variable width channel to changes in sediment supply. Water Resources Research, 2015, 51, 5717-5734.	4.2	49
21	Coevolution of bed surface patchiness and channel morphology: 1. Mechanisms of forced patch formation. Journal of Geophysical Research F: Earth Surface, 2015, 120, 1687-1707.	2.8	22
22	Coevolution of bed surface patchiness and channel morphology: 2. Numerical experiments. Journal of Geophysical Research F: Earth Surface, 2015, 120, 1708-1723.	2.8	15
23	Finite amplitude bars in mixed bedrock-alluvial channels. Journal of Geophysical Research F: Earth Surface, 2014, 119, 566-587.	2.8	19
24	Delineation of river bed-surface patches by clustering high-resolution spatial grain size data. Geomorphology, 2014, 205, 102-119.	2.6	42
25	A theoretical framework for the morphodynamics of bedrock channels. Geophysical Research Letters, 2012, 39, .	4.0	44
26	Alternate bar response to sediment supply termination. Journal of Geophysical Research, 2012, 117, .	3.3	73
27	Modeling the evolution of bedrock channel shape with erosion from saltating bed load. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	47
28	Effect of sediment pulse grain size on sediment transport rates and bed mobility in gravel bed rivers. Journal of Geophysical Research, 2010, 115, .	3.3	77
29	Mobilization of coarse surface layers in gravel bedded rivers by finer gravel bed load. Water Resources Research, 2010, 46, .	4.2	98
30	Bed topography and the development of forced bed surface patches. Journal of Geophysical Research, 2010, 115, .	3.3	54
31	Response of bed surface patchiness to reductions in sediment supply. Journal of Geophysical Research, 2009, 114, .	3.3	116
32	Translation and dispersion of sediment pulses in flume experiments simulating gravel augmentation below dams. Water Resources Research, 2009, 45, .	4.2	99
33	Evolution of channel morphology and hydrologic response in an urbanizing drainage basin. Earth Surface Processes and Landforms, 2006, 31, 1063-1079.	2.5	83
34	Sediment patches, sediment supply, and channel morphology. , 2006, , .		1
35	Extraordinary Flood Response of a Small Urban Watershed to Short-Duration Convective Rainfall. Journal of Hydrometeorology, 2005, 6, 599-617.	1.9	80
36	Field studies of the storm event hydrologic response in an urbanizing watershed. Water Resources Research, 2005, 41, .	4.2	107

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37	Catastrophic flooding from an orographic thunderstorm in the central Appalachians. <i>Water Resources Research</i> , 2005, 41, .	4.2	33