John C Schmidt

List of Publications by Year
in descending order

57 papers	3,866 citations	147801 31 h-index	161849 54 g-index
67 all docs	67 docs citations	67 times ranked	2709 citing authors

#	Article	IF	Citations
1	Effects of Dams on Rivers. , 2022, , 503-515.		1
2	Water Storage Decisions and Consumptive Use May Constrain Ecosystem Management under Severe Sustained Drought. Journal of the American Water Resources Association, 2022, 58, 654-672.	2.4	12
3	Water storage decisions will determine the distribution and persistence of imperiled river fishes. Ecological Applications, 2021, 31, e02279.	3.8	38
4	Causes of Variability in Suspendedâ€Sand Concentration Evaluated Using Measurements in the Colorado River in Grand Canyon. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005226.	2.8	7
5	Does Channel Narrowing by Floodplain Growth Necessarily Indicate Sediment Surplus? Lessons From Sediment Transport Analyses in the Green and Colorado Rivers, Canyonlands, Utah. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005414.	2.8	10
6	Channel narrowing by inset floodplain formation of the lower Green River in the Canyonlands region, Utah. Bulletin of the Geological Society of America, 2020, 132, 2333-2352.	3.3	15
7	Water Temperature Controls for Regulated Canyonâ€Bound Rivers. Water Resources Research, 2020, 56, e2020WR027566.	4.2	13
8	The roles of flood magnitude and duration in controlling channel width and complexity on the Green River in Canyonlands, Utah, USA. Geomorphology, 2020, 371, 107438.	2.6	16
9	Measuring channel planform change from image time series: A generalizable, spatially distributed, probabilistic method for quantifying uncertainty. Earth Surface Processes and Landforms, 2020, 45, 2727-2744.	2.5	8
10	Incorporating social-ecological considerations into basin-wide responses to climate change in the Colorado River Basin. Current Opinion in Environmental Sustainability, 2019, 37, 14-19.	6.3	16
11	Estimating the Natural Flow Regime of Rivers With Longâ€Standing Development: The Northern Branch of the Rio Grande. Water Resources Research, 2018, 54, 1212-1236.	4.2	49
12	Variability in eddy sandbar dynamics during two decades of controlled flooding of the Colorado River in the Grand Canyon. Sedimentary Geology, 2018, 363, 181-199.	2.1	36
13	Longâ€Term Evolution of Sand Transport Through a River Network: Relative Influences of a Dam Versus Natural Changes in Grain Size From Sand Waves. Journal of Geophysical Research F: Earth Surface, 2018, 123, 1879-1909.	2.8	18
14	Changes in floodplain inundation under nonstationary hydrology for an adjustable, alluvial river channel. Water Resources Research, 2017, 53, 3811-3834.	4.2	55
15	How dams can go with the flow. Science, 2016, 353, 1099-1100.	12.6	180
16	Sediment supply versus local hydraulic controls on sediment transport and storage in a river with large sediment loads. Journal of Geophysical Research F: Earth Surface, 2016, 121, 82-110.	2.8	53
17	Post-project geomorphic assessment of a large process-based river restoration project. Geomorphology, 2016, 270, 145-158.	2.6	16
18	Riparian vegetation, Colorado River, and climate: Five decades of spatiotemporal dynamics in the Grand Canyon with river regulation. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 1532-1547.	3.0	55

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19	Functional Flows in Modified Riverscapes: Hydrographs, Habitats and Opportunities. BioScience, 2015, 65, 963-972.	4.9	177
20	Mechanisms of vegetation-induced channel narrowing of an unregulated canyon river: Results from a natural field-scale experiment. Geomorphology, 2014, 211, 100-115.	2.6	66
21	Are largeâ€scale flow experiments informing the science and management of freshwater ecosystems?. Frontiers in Ecology and the Environment, 2014, 12, 176-185.	4.0	180
22	The influence of controlled floods on fine sediment storage in debris fan-affected canyons of the Colorado River basin. Geomorphology, 2014, 226, 65-75.	2.6	31
23	Spatial and temporal patterns in channel change on the Snake River downstream from Jackson Lake dam, Wyoming. Geomorphology, 2013, 200, 132-142.	2.6	61
24	The geomorphic effectiveness of a large flood on the Rio Grande in the Big Bend region: Insights on geomorphic controls and post-flood geomorphic response. Geomorphology, 2013, 201, 183-198.	2.6	98
25	Linking morphodynamic response with sediment mass balance on the Colorado River in Marble Canyon: Issues of scale, geomorphic setting, and sampling design. Journal of Geophysical Research F: Earth Surface, 2013, 118, 361-381.	2.8	51
26	The role of feedback mechanisms in historic channel changes of the lower Rio Grande in the Big Bend region. Geomorphology, 2011, 126, 333-349.	2.6	127
27	Downstream effects of impounding a natural lake: the Snake River downstream from Jackson Lake Dam, Wyoming, USA. Earth Surface Processes and Landforms, 2011, 36, 1421-1434.	2.5	27
28	Using a historical aerial photograph analysis to inform trout habitat restoration efforts. Earth Surface Processes and Landforms, 2011, 36, 1693-1702.	2.5	5
29	Large-scale Flow Experiments for Managing River Systems. BioScience, 2011, 61, 948-959.	4.9	142
30	Quantifying Macroinvertebrate Responses to In-Stream Habitat Restoration: Applications of Meta-Analysis to River Restoration. Restoration Ecology, 2010, 18, 8-19.	2.9	215
31	Metrics for assessing the downstream effects of dams. Water Resources Research, 2008, 44, .	4.2	286
32	The rate and pattern of bed incision and bank adjustment on the Colorado River in Glen Canyon downstream from Glen Canyon Dam, 1956-2000. Bulletin of the Geological Society of America, 2007, 119, 556-575.	3.3	108
33	Stream geomorphology in a mountain lake district: hydraulic geometry, sediment sources and sinks, and downstream lake effects. Earth Surface Processes and Landforms, 2007, 32, 525-543.	2.5	41
34	Geologic versus wildfire controls on hillslope processes and debris flow initiation in the Green River canyons of Dinosaur National Monument. Geomorphology, 2006, 81, 114-127.	2.6	65
35	A Map Overlay Error Model Based on Boundary Geometry. Geographical Analysis, 2005, 37, 350-369.	3.5	8
36	Regulation of sand transport in the Colorado River by changes in the surface grain size of eddy sandbars over multi-year timescales. Sedimentology, 2005, 52, 1133-1153.	3.1	15

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37	Application of wavelet analysis for monitoring the hydrologic effects of dam operation: Glen Canyon Dam and the Colorado River at Lees Ferry, Arizona. River Research and Applications, 2005, 21, 551-565.	1.7	77
38	Complex channel responses to changes in stream flow and sediment supply on the lower Duchesne River, Utah. Geomorphology, 2005, 64, 185-206.	2.6	87
39	Equilibrium or indeterminate? Where sediment budgets fail: Sediment mass balance and adjustment of channel form, Green River downstream from Flaming Gorge Dam, Utah and Colorado. Geomorphology, 2005, 71, 156-181.	2.6	105
40	Debris-fan reworking during low-magnitude floods in the Green River canyons of the eastern Uinta Mountains, Colorado and Utah. Geology, 2004, 32, 309.	4.4	20
41	Evaluation of in-channel gravel storage with morphology-based gravel budgets developed from planimetric data. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	54
42	Recent sediment studies refute Glen Canyon Dam Hypothesis. Eos, 2002, 83, 273.	0.1	55
43	Streamflow regulation and multi-level flood plain formation: channel narrowing on the aggrading Green River in the eastern Uinta Mountains, Colorado and Utah. Geomorphology, 2002, 44, 337-360.	2.6	126
44	THE 1996 CONTROLLED FLOOD IN GRAND CANYON: FLOW, SEDIMENT TRANSPORT, AND GEOMORPHIC CHANGE. , 2001, 11, 657-671.		70
45	Linkage between grain-size evolution and sediment depletion during Colorado River floods. Geophysical Monograph Series, 1999, , 71-98.	0.1	22
46	Topographic evolution of sand bars. Geophysical Monograph Series, 1999, , 117-130.	0.1	17
47	Variation in the magnitude and style of deposition and erosion in three long (8â€"12 km) reaches as determined by photographic analysis. Geophysical Monograph Series, 1999, , 185-203.	0.1	8
48	Summary and synthesis of geomorphic studies conducted during the 1996 controlled flood in Grand Canyon. Geophysical Monograph Series, 1999, , 329-341.	0.1	21
49	Channel narrowing by vertical accretion along the Green River near Green River, Utah. Bulletin of the Geological Society of America, 1999, 111, 1757-1772.	3.3	115
50	Science and Values in River Restoration in the Grand Canyon. BioScience, 1998, 48, 735-747.	4.9	185
51	COMPARISON OF THE MAGNITUDE OF EROSION ALONG TWO LARGE REGULATED RIVERS. Journal of the American Water Resources Association, 1995, 31, 617-631.	2.4	32
52	Regulated streamflow, fine-grained deposits, and effective discharge in canyons with abundant debris fans. Geophysical Monograph Series, 1995, , 177-195.	0.1	69
53	Effects of glen canyon dam on colorado river sand deposits used as campsites in grand canyon national park, USA. River Research and Applications, 1994, 9, 137-149.	0.8	64
54	Waves and Sandbar Erosion in the Grand Canyon: Applying Coastal Theory to a Fluvial System. Annals of the American Association of Geographers, 1993, 83, 475-497.	3.0	14

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55	Flume simulation of recirculating flow and sedimentation. Water Resources Research, 1993, 29, 2925-2939.	4.2	66
56	Recirculating Flow and Sedimentation in the Colorado River in Grand Canyon, Arizona. Journal of Geology, 1990, 98, 709-724.	1.4	132
57	When Models Meet Managers: Examples from Geomorphology. Geophysical Monograph Series, 0, , 27-40.	0.1	12