Karen B Gran

List of Publications by Year
in descending order

28 papers	1,772 citations	430874 18 h-index	552781 26 g-index
31 all docs	31 docs citations	31 times ranked	1560 citing authors

#	Article	IF	Citations
1	Riparian vegetation controls on braided stream dynamics. Water Resources Research, 2001, 37, 3275-3283.	4.2	322
2	Downstream variations in the width of bedrock channels. Water Resources Research, 2001, 37, 1841-1846.	4.2	262
3	Large Shift in Source of Fine Sediment in the Upper Mississippi River. Environmental Science & Technology, 2011, 45, 8804-8810.	10.0	171
4	Riparian vegetation as a primary control on channel characteristics in multi-thread rivers. Water Science and Application, 2004, , 43-58.	0.3	119
5	Spatial and temporal patterns in fluvial recovery following volcanic eruptions: Channel response to basin-wide sediment loading at Mount Pinatubo, Philippines. Bulletin of the Geological Society of America, 2005, 117, 195.	3.3	110
6	Coâ€evolution of riparian vegetation and channel dynamics in an aggrading braided river system, Mount Pinatubo, Philippines. Earth Surface Processes and Landforms, 2015, 40, 1101-1115.	2.5	103
7	Sediment pulse evolution and the role of network structure. Geomorphology, 2017, 277, 17-30.	2.6	95
8	Landscape evolution, valley excavation, and terrace development following abrupt postglacial base-level fall. Bulletin of the Geological Society of America, 2013, 125, 1851-1864.	3.3	79
9	Measuring bluff erosion part 2: pairing aerial photographs and terrestrial laser scanning to create a watershed scale sediment budget. Earth Surface Processes and Landforms, 2013, 38, 1068-1082.	2.5	72
10	Modeling the impact of land use changes on runoff and sediment yield in the Le Sueur watershed, Minnesota using GeoWEPP. Catena, 2013, 107, 35-45.	5.0	67
11	Long-term elevated post-eruption sedimentation at Mount Pinatubo, Philippines. Geology, 2011, 39, 367-370.	4.4	56
12	Measuring bluff erosion part 1: terrestrial laser scanning methods for change detection. Earth Surface Processes and Landforms, 2013, 38, 1055-1067.	2.5	49
13	Interplay between spatially explicit sediment sourcing, hierarchical riverâ€network structure, and inâ€channel bed material sediment transport and storage dynamics. Journal of Geophysical Research F: Earth Surface, 2017, 122, 1090-1120.	2.8	36
14	Lateral erosion in an experimental bedrock channel: The influence of bed roughness on erosion by bed load impacts. Journal of Geophysical Research F: Earth Surface, 2016, 121, 1084-1105.	2.8	32
15	A Mechanistic Model for Lateral Erosion of Bedrock Channel Banks by Bedload Particle Impacts. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005509.	2.8	28
16	Geomorphic evolution of the Le Sueur River, Minnesota, USA, and implications for current sediment loading. , 2009, , .		27
17	Strong seasonality in sand loading and resulting feedbacks on sediment transport, bed texture, and channel planform at Mount Pinatubo, Philippines. Earth Surface Processes and Landforms, 2012, 37, 1012-1022.	2.5	27
18	Integrated assessment modeling reveals near-channel management as cost-effective to improve water quality in agricultural watersheds. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	27

#	Article	IF	Citations
19	Landscape evolution in south-central Minnesota and the role of geomorphic history on modern erosional processes. GSA Today, 2011, 21, 7-9.	2.0	25
20	Reducing High Flows and Sediment Loading through Increased Water Storage in an Agricultural Watershed of the Upper Midwest, USA. Water (Switzerland), 2018, 10, 1053.	2.7	12
21	Channel Morphology Response to Selective Wood Removals in a Sand-Laden Wisconsin Trout Stream. North American Journal of Fisheries Management, 2010, 30, 776-790.	1.0	11
22	Comment on â€œClimate and agricultural land use change impacts on streamflow in the upper midwestern United Statesâ€•by Satish C. Gupta et al.. Water Resources Research, 2016, 52, 7536-7539.	4.2	10
23	Simulation Model for Collaborative Decision Making on Sediment Source Reduction in an Intensively Managed Watershed. Water Resources Research, 2019, 55, 1544-1564.	4.2	9
24	Implementing landscape connectivity with topographic filtering model: A simulation of suspended sediment delivery in an agricultural watershed. Science of the Total Environment, 2022, 836, 155701.	8.0	8
25	The Power of Environmental Observatories for Advancing Multidisciplinary Research, Outreach, and Decision Support: The Case of the Minnesota River Basin. Water Resources Research, 2019, 55, 3576-3592.	4.2	6
26	Impacts of changing hydrology on permanent gully growth: experimental results. Hydrology and Earth System Sciences, 2018, 22, 3261-3273.	4.9	4
27	Seasonal and Floodâ€Induced Variations in Groundwaterâ€“Surface Water Exchange in a Northern Coldwater Fishery. Journal of the American Water Resources Association, 2018, 54, 1109-1126.	2.4	4
28	An experimental study of drainage network development by surface and subsurface flow in low-gradient landscapes. Earth Surface Dynamics, 2022, 10, 581-603.	2.4	0