

Karen B Gran

List of Publications by Year in descending order

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Version: 2024-02-01

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	Implementing landscape connectivity with topographic filtering model: A simulation of suspended sediment delivery in an agricultural watershed. <i>Science of the Total Environment</i> , 2022, 836, 155701.	8.0	8
2	An experimental study of drainage network development by surface and subsurface flow in low-gradient landscapes. <i>Earth Surface Dynamics</i> , 2022, 10, 581-603.	2.4	0
3	Integrated assessment modeling reveals near-channel management as cost-effective to improve water quality in agricultural watersheds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	27
4	A Mechanistic Model for Lateral Erosion of Bedrock Channel Banks by Bedload Particle Impacts. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005509.	2.8	28
5	The Power of Environmental Observatories for Advancing Multidisciplinary Research, Outreach, and Decision Support: The Case of the Minnesota River Basin. <i>Water Resources Research</i> , 2019, 55, 3576-3592.	4.2	6
6	Simulation Model for Collaborative Decision Making on Sediment Source Reduction in an Intensively Managed Watershed. <i>Water Resources Research</i> , 2019, 55, 1544-1564.	4.2	9
7	Impacts of changing hydrology on permanent gully growth: experimental results. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 3261-3273.	4.9	4
8	Seasonal and Flood-Induced Variations in Groundwater-Surface Water Exchange in a Northern Coldwater Fishery. <i>Journal of the American Water Resources Association</i> , 2018, 54, 1109-1126.	2.4	4
9	Reducing High Flows and Sediment Loading through Increased Water Storage in an Agricultural Watershed of the Upper Midwest, USA. <i>Water (Switzerland)</i> , 2018, 10, 1053.	2.7	12
10	Sediment pulse evolution and the role of network structure. <i>Geomorphology</i> , 2017, 277, 17-30.	2.6	95
11	Interplay between spatially explicit sediment sourcing, hierarchical river network structure, and in-channel bed material sediment transport and storage dynamics. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 1090-1120.	2.8	36
12	Lateral erosion in an experimental bedrock channel: The influence of bed roughness on erosion by bed load impacts. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 1084-1105.	2.8	32
13	Comment on "Climate and agricultural land use change impacts on streamflow in the upper midwestern United States" by Satish C. Gupta et al.. <i>Water Resources Research</i> , 2016, 52, 7536-7539.	4.2	10
14	Co-evolution of riparian vegetation and channel dynamics in an aggrading braided river system, Mount Pinatubo, Philippines. <i>Earth Surface Processes and Landforms</i> , 2015, 40, 1101-1115.	2.5	103
15	Measuring bluff erosion part 1: terrestrial laser scanning methods for change detection. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 1055-1067.	2.5	49
16	Modeling the impact of land use changes on runoff and sediment yield in the Le Sueur watershed, Minnesota using GeoWEPP. <i>Catena</i> , 2013, 107, 35-45.	5.0	67
17	Measuring bluff erosion part 2: pairing aerial photographs and terrestrial laser scanning to create a watershed scale sediment budget. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 1068-1082.	2.5	72
18	Landscape evolution, valley excavation, and terrace development following abrupt postglacial base-level fall. <i>Bulletin of the Geological Society of America</i> , 2013, 125, 1851-1864.	3.3	79

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19	Strong seasonality in sand loading and resulting feedbacks on sediment transport, bed texture, and channel planform at Mount Pinatubo, Philippines. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 1012-1022.	2.5	27
20	Long-term elevated post-eruption sedimentation at Mount Pinatubo, Philippines. <i>Geology</i> , 2011, 39, 367-370.	4.4	56
21	Large Shift in Source of Fine Sediment in the Upper Mississippi River. <i>Environmental Science & Technology</i> , 2011, 45, 8804-8810.	10.0	171
22	Landscape evolution in south-central Minnesota and the role of geomorphic history on modern erosional processes. <i>GSA Today</i> , 2011, 21, 7-9.	2.0	25
23	Channel Morphology Response to Selective Wood Removals in a Sand-Laden Wisconsin Trout Stream. <i>North American Journal of Fisheries Management</i> , 2010, 30, 776-790.	1.0	11
24	Geomorphic evolution of the Le Sueur River, Minnesota, USA, and implications for current sediment loading. , 2009, , .		27
25	Spatial and temporal patterns in fluvial recovery following volcanic eruptions: Channel response to basin-wide sediment loading at Mount Pinatubo, Philippines. <i>Bulletin of the Geological Society of America</i> , 2005, 117, 195.	3.3	110
26	Riparian vegetation as a primary control on channel characteristics in multi-thread rivers. <i>Water Science and Application</i> , 2004, , 43-58.	0.3	119
27	Riparian vegetation controls on braided stream dynamics. <i>Water Resources Research</i> , 2001, 37, 3275-3283.	4.2	322
28	Downstream variations in the width of bedrock channels. <i>Water Resources Research</i> , 2001, 37, 1841-1846.	4.2	262