G Mathias Kondolf

List of Publications by Year
in descending order

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82	7,014	101543	79698
papers	citations	36 h-index	73 g-index

99	99	99	4510
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	PROFILE: Hungry Water: Effects of Dams and Gravel Mining on River Channels. Environmental Management, 1997, 21, 533-551.	2.7	1,084
2	Sustainable sediment management in reservoirs and regulated rivers: Experiences from five continents. Earth's Future, 2014, 2, 256-280.	6.3	556
3	River restoration. Water Resources Research, 2005, 41, .	4.2	452
4	The sizes of salmonid spawning gravels. Water Resources Research, 1993, 29, 2275-2285.	4.2	298
5	Process-Based Ecological River Restoration: Visualizing Three-Dimensional Connectivity and Dynamic Vectors to Recover Lost Linkages. Ecology and Society, 2006, 11, .	2.3	284
6	Geomorphic and environmental effects of instream gravel mining. Landscape and Urban Planning, 1994, 28, 225-243.	7.5	258
7	Evaluating stream restoration projects. Environmental Management, 1995, 19, 1-15.	2.7	256
8	Assessing Salmonid Spawning Gravel Quality. Transactions of the American Fisheries Society, 2000, 129, 262-281.	1.4	223
9	Five Elements for Effective Evaluation of Stream Restoration. Restoration Ecology, 1995, 3, 133-136.	2.9	220
10	Post-Project Appraisals in Adaptive Management of River Channel Restoration. Environmental Management, 2002, 29, 477-496.	2.7	191
11	The Flushing Flow Problem: Defining and Evaluating Objectives. Water Resources Research, 1996, 32, 2589-2599.	4.2	189
12	Changing sediment budget of the Mekong: Cumulative threats and management strategies for a large river basin. Science of the Total Environment, 2018, 625, 114-134.	8.0	182
13	River Restoration and Meanders. Ecology and Society, 2006, 11, .	2.3	155
14	Design and Performance of a Channel Reconstruction Project in a Coastal California Gravel-Bed Stream. Environmental Management, 2001, 28, 761-776.	2.7	142
15	Lessons learned from river restoration projects in California. Aquatic Conservation: Marine and Freshwater Ecosystems, 1998, 8, 39-52.	2.0	130
16	Observations of Flow and Sediment Entrainment on a Large Gravel-Bed River. Water Resources Research, 1996, 32, 2897-2909.	4.2	115
17	APPLICATION OF THE PEBBLE COUNT NOTES ON PURPOSE, METHOD, AND VARIANTS. Journal of the American Water Resources Association, 1997, 33, 79-87.	2.4	105
18	Specification of Sediment Maintenance Flows for a Large Gravel-Bed River. Water Resources Research, 1996, 32, 2911-2921.	4.2	102

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19	Geomorphological stream channel classification in aquatic habitat restoration: Uses and limitations. Aquatic Conservation: Marine and Freshwater Ecosystems, 1995, 5, 127-141.	2.0	100
20	Modification of fluvial gravel size by spawning salmonids. Water Resources Research, 1993, 29, 2265-2274.	4.2	95
21	Changes in the riparian zone of the lower Eygues River, France, since 1830. Landscape Ecology, 2007, 22, 367-384.	4.2	87
22	The social connectivity of urban rivers. Geomorphology, 2017, 277, 182-196.	2.6	86
23	Historical channel analysis and its application to riparian and aquatic habitat restoration. Aquatic Conservation: Marine and Freshwater Ecosystems, 1995, 5, 109-126.	2.0	85
24	Salmon Spawning Habitat Rehabilitation on the Merced River, California: An Evaluation of Project Planning and Performance. Transactions of the American Fisheries Society, 1996, 125, 899-912.	1.4	77
25	Measuring and Modeling the Hydraulic Environment for Assessing Instream Flows. North American Journal of Fisheries Management, 2000, 20, 1016-1028.	1.0	74
26	Unmeasured Residuals in Sediment Budgets: A Cautionary Note. Water Resources Research, 1991, 27, 2483-2486.	4.2	68
27	Some Suggested Guidelines for Geomorphic Aspects of Anadromous Salmonid Habitat Restoration Proposals. Restoration Ecology, 2000, 8, 48-56.	2.9	66
28	Linking Theory and Practice for Restoration of Step-Pool Streams. Environmental Management, 2009, 43, 645-661.	2.7	56
29	Evaluating Stream Restoration Projects: What Do We Learn from Monitoring?. Water (Switzerland), 2017, 9, 174.	2.7	56
30	Restoring mediterranean-climate rivers. Hydrobiologia, 2013, 719, 527-545.	2.0	52
31	A reservoir operating method for riverine ecosystem protection, reservoir sedimentation control and water supply. Journal of Hydrology, 2014, 512, 379-387.	5.4	48
32	Channel erosion along the Carmel river, Monterey county, California. Earth Surface Processes and Landforms, 1986, 11, 307-319.	2.5	44
33	Chapter 11 Hydrological effects of dams and water diversions on rivers of Mediterranean-climate regions: examples from California. Developments in Earth Surface Processes, 2005, 7, 197-211.	2.8	44
34	Hydrologic impacts of smallâ€scale instream diversions for frost and heat protection in the California wine country. River Research and Applications, 2009, 25, 118-134.	1.7	43
35	Space and Time Scales in Human-Landscape Systems. Environmental Management, 2014, 53, 76-87.	2.7	42
36	Projecting Cumulative Benefits of Multiple River Restoration Projects: An Example from the Sacramento-San Joaquin River System in California. Environmental Management, 2008, 42, 933-945.	2.7	41

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37	Ecological functions of restored gravel bars, the Trinity River, California. Ecological Engineering, 2015, 83, 49-60.	3.6	36
38	Trends in publications in fluvial geomorphology over two decades: A truly new era in the discipline owing to recent technological revolution?. Geomorphology, 2015, 248, 489-500.	2.6	36
39	Fractal Dimension of the Hydrographic Pattern of Three Large Rivers in the Mediterranean Morphoclimatic System: Geomorphologic Interpretation of Russian (USA), Ebro (Spain) and Volturno (Italy) Fluvial Geometry. Pure and Applied Geophysics, 2015, 172, 1975-1984.	1.9	32
40	Upstream Sedimentâ€Control Dams: Five Decades of Experience in the Rapidly Eroding Dahan River Basin, Taiwan. Journal of the American Water Resources Association, 2014, 50, 735-747.	2.4	30
41	Design Criteria for Process-Based Restoration of Fluvial Systems. BioScience, 2021, 71, 831-845.	4.9	30
42	Sustainably Managing Reservoir Storage: Ancient Roots of a Modern Challenge. Water (Switzerland), 2018, 10, 117.	2.7	29
43	Environmental planning in regulation and management of instream gravel mining in California. Landscape and Urban Planning, 1994, 29, 185-199.	7.5	27
44	Planning River Restoration Projects: Social and Cultural Dimensions. , 0, , 41-60.		26
45	Sustaining United States reservoir storage capacity: Need for a new paradigm. Journal of Hydrology, 2021, 602, 126686.	5.4	25
46	Basic hydrologic studies for assessing impacts of flow diversions on riparian vegetation: Examples from streams of the eastern Sierra Nevada, California, USA. Environmental Management, 1987, 11, 757-769.	2.7	23
47	Restoring fluvial forms and processes by gravel augmentation or bank erosion below dams: A systematic review of ecological responses. Science of the Total Environment, 2020, 706, 135743.	8.0	23
48	Using Historical Data in Fluvial Geomorphology. , 2005, , 77-101.		22
49	Surface water balance to evaluate the hydrological impacts of small instream diversions and application to the Russian River basin, California, USA. Aquatic Conservation: Marine and Freshwater Ecosystems, 2009, 19, 274-284.	2.0	21
50	Anthropogenic landforms and sediments from dredging and disposing sand along the Apalachicola River and its floodplain. Geomorphology, 2017, 294, 119-134.	2.6	21
51	Urban River Transformation and the Landscape Garden City Movement in China. Sustainability, 2018, 10, 4103.	3.2	18
52	From flushing flows to (eco)morphogenic releases: evolving terminology, practice, and integration into river management. Earth-Science Reviews, 2021, 213, 103475.	9.1	15
53	National-local land-use conflicts in floodways of the Mississippi River system. AIMS Environmental Science, 2018, 5, 47-63.	1.4	14
54	Bed Sediment Measurement. , 2005, , 347-395.		13

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55	Geomorphic Classification of Rivers and Streams. , 2005, , 171-204.		13
56	Models in Fluvial Geomorphology. , 2005, , 501-537.		11
57	Evolution of Two Urbanized Estuaries: Environmental Change, Legal Framework, and Implications for Sea-Level Rise Vulnerability. Water (Switzerland), 2016, 8, 535.	2.7	11
58	30-year response to damming of a Mediterranean river in California, USA. Physical Geography, 2018, 39, 197-215.	1.4	11
59	Managing bedload sediment in regulated rivers: Examples from California, U.S.A.. Geophysical Monograph Series, 1995, , 165-176.	0.1	10
60	<scp>T</scp>he Line of Beauty in River Designs: Hogarthâ€™s Aesthetic Theory on Capability Brownâ€™s Eighteenth-Century River Design and Twentieth-Century River Restoration Design. Landscape Research, 2016, 41, 149-167.	1.6	10
61	The social life of sediment. Water History, 2021, 13, 1-12.	1.3	10
62	The Fit of Urban Waterfront Interventions: Matters of Size, Money and Function. Sustainability, 2020, 12, 4079.	3.2	9
63	The reclamation concept in regulation of gravel mining in California. Journal of Environmental Planning and Management, 1993, 36, 395-406.	4.5	8
64	Channel and vegetation recovery from dredging of a large river in the Gulf coastal plain, USA. Earth Surface Processes and Landforms, 2020, 45, 1926-1944.	2.5	8
65	Bed Mobility on the Deschutes River, Oregon: Tracer Gravel Results. Geodinamica Acta, 2008, 21, 11-22.	2.2	7
66	Consequences of variations in magnitude and duration of an instream environmental flow threshold across a longitudinal gradient. Journal of Hydrology, 2012, 420-421, 17-24.	5.4	7
67	Encroachments in floodways of the Mississippi River and Tributaries Project. Natural Hazards, 2016, 81, 513-542.	3.4	7
68	Assessment of the Effectiveness of a Constructed Compound Channel River Restoration Project on an Incised Stream. Journal of Hydraulic Engineering, 2010, 136, 1042-1052.	1.5	6
69	Impacts of sediment derived from erosion of partially-constructed road on aquatic organisms in a tropical river: The RÃo San Juan, Nicaragua and Costa Rica. PLoS ONE, 2020, 15, e0242356.	2.5	6
70	The ideal meander: Exploring freshwater scientist drawings of river restoration. Freshwater Science, 2020, 39, 349-355.	1.8	5
71	Assessment of suspended sediment load variability in the Tonle Sap and Lower Mekong Rivers, Cambodia. Catena, 2021, 202, 105291.	5.0	4
72	CHANGING WATER BALANCE OVER TIME IN RUSH CREEK, EASTERN CALIFORNIA, 1860?1992. Journal of the American Water Resources Association, 1993, 29, 823-832.	2.4	3

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73	Livestock grazing and habitat for a threatened species: Land-use decisions under scientific uncertainty in the White Mountains, California, USA. Environmental Management, 1994, 18, 501-509.	2.7	3
74	REPLY TO DISCUSSION by Gregory S. Bevenger and Rudy M. King.. Journal of the American Water Resources Association, 1997, 33, 1395-1396.	2.4	3
75	Integrating Geomorphological Tools in Ecological and Management Studies. , 2005, , 631-660.		3
76	Managing Floods in Large River Basins in the USA: The Mississippi River. , 2018, , 11-41.		3
77	Bridges Over the Nile. Transportation Corridors Transformed into Public Spaces. The Journal of Public Space, 2020, , 5-20.	0.2	2
78	Les lÃ¢chers morphogÃ¨nes depuis un barrageâ€‰ justification opÃ©rationnelle et protocole d'intervention. Houille Blanche, 2020, 106, 66-75.	0.3	2
79	REPLY TO DISCUSSION by Panayiotis Diplas and Vinod K. Lohani.. Journal of the American Water Resources Association, 1997, 33, 1401-1402.	2.4	1
80	Post-Project Appraisals: The Key to River Restoration Success. , 2001, , 1.		0
81	Tools in Fluvial Geomorphology: Problem Statement and Recent Practice. , 2005, , 1-22.		0
82	Stream Geomorphology. , 2022, , 249-257.		0