GMathias Kondolf

List of Publications by Year
in descending order

126 papers	9,806 citations	76326 40 h-index	38395 95 g-index
132 all docs	132 docs citations	132 times ranked	6656 citing authors

#	Article	IF	Citations
1	ECOLOGY: Synthesizing U.S. River Restoration Efforts. Science, 2005, 308, 636-637.	12.6	1,552
2	PROFILE: Hungry Water: Effects of Dams and Gravel Mining on River Channels. Environmental Management, 1997, 21, 533-551.	2.7	1,084
3	Sustainable sediment management in reservoirs and regulated rivers: Experiences from five continents. Earth's Future, 2014, 2, 256-280.	6.3	556
4	Fine-grained sediment in river systems: environmental significance and management issues. River Research and Applications, 2005, 21, 693-717.	1.7	516
5	River restoration. Water Resources Research, 2005, 41, .	4.2	452
6	Dams on the Mekong: Cumulative sediment starvation. Water Resources Research, 2014, 50, 5158-5169.	4.2	305
7	Process-Based Ecological River Restoration: Visualizing Three-Dimensional Connectivity and Dynamic Vectors to Recover Lost Linkages. Ecology and Society, 2006, 11, .	2.3	284
8	Geomorphic and environmental effects of instream gravel mining. Landscape and Urban Planning, 1994, 28, 225-243.	7.5	258
9	Evaluating stream restoration projects. Environmental Management, 1995, 19, 1-15.	2.7	256
10	Assessing Salmonid Spawning Gravel Quality. Transactions of the American Fisheries Society, 2000, 129, 262-281.	1.4	223
11	Five Elements for Effective Evaluation of Stream Restoration. Restoration Ecology, 1995, 3, 133-136.	2.9	220
12	Post-Project Appraisals in Adaptive Management of River Channel Restoration. Environmental Management, 2002, 29, 477-496.	2.7	191
13	The Flushing Flow Problem: Defining and Evaluating Objectives. Water Resources Research, 1996, 32, 2589-2599.	4.2	189
14	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
15	River Restoration and Meanders. Ecology and Society, 2006, 11, .	2.3	155
16	Two Decades of River Restoration in California: What Can We Learn?. Restoration Ecology, 2007, 15, 516-523.	2.9	146
17	Design and Performance of a Channel Reconstruction Project in a Coastal California Gravel-Bed Stream. Environmental Management, 2001, 28, 761-776.	2.7	142
18	Lessons learned from river restoration projects in California. Aquatic Conservation: Marine and Freshwater Ecosystems, 1998, 8, 39-52.	2.0	130

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19	Controls on the alluviation of oxbow lakes by bed-material load along the Sacramento River, California. Sedimentology, 2010, 57, 389-407.	3.1	127
20	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
21	Improved trade-offs of hydropower and sand connectivity by strategic dam planning in the Mekong. Nature Sustainability, 2018, 1, 96-104.	23.7	102
22	Geomorphological stream channel classification in aquatic habitat restoration: Uses and limitations. Aquatic Conservation: Marine and Freshwater Ecosystems, 1995, 5, 127-141.	2.0	100
23	Changes in the riparian zone of the lower Eygues River, France, since 1830. Landscape Ecology, 2007, 22, 367-384.	4.2	87
24	The social connectivity of urban rivers. Geomorphology, 2017, 277, 182-196.	2.6	86
25	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
26	Biomic river restoration: A new focus for river management. River Research and Applications, 2020, 36, 3-12.	1.7	83
27	LARGE WOODY DEBRIS IN URBAN STREAM CHANNELS: REDEFINING THE PROBLEM. River Research and Applications, 2012, 28, 1477-1487.	1.7	79
28	Planning dam portfolios for low sediment trapping shows limits for sustainable hydropower in the Mekong. Science Advances, 2019, 5, eaaw2175.	10.3	79
29	Measuring and Modeling the Hydraulic Environment for Assessing Instream Flows. North American Journal of Fisheries Management, 2000, 20, 1016-1028.	1.0	74
30	Unmeasured Residuals in Sediment Budgets: A Cautionary Note. Water Resources Research, 1991, 27, 2483-2486.	4.2	68
31	Some Suggested Guidelines for Geomorphic Aspects of Anadromous Salmonid Habitat Restoration Proposals. Restoration Ecology, 2000, 8, 48-56.	2.9	66
32	Urban Stream and Wetland Restoration in the Global Southâ€"A DPSIR Analysis. Sustainability, 2019, 11, 4975.	3.2	61
33	Distribution and Stability of Potential Salmonid Spawning Gravels in Steep Boulder-Bed Streams of the Eastern Sierra Nevada. Transactions of the American Fisheries Society, 1991, 120, 177-186.	1.4	57
34	Evaluating Stream Restoration Projects: What Do We Learn from Monitoring?. Water (Switzerland), 2017, 9, 174.	2.7	56
35	Flow and Sediment-Transport Modeling. , 2005, , 539-576.		53
36	Restoring mediterranean-climate rivers. Hydrobiologia, 2013, 719, 527-545.	2.0	52

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37	A reservoir operating method for riverine ecosystem protection, reservoir sedimentation control and water supply. Journal of Hydrology, 2014, 512, 379-387.	5.4	48
38	Lag in Stream Channel Adjustment to Livestock Exclosure, White Mountains, California. Restoration Ecology, 1993, 1, 226-230.	2.9	44
39	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
40	System Approaches in Fluvial Geomorphology. , 2005, , 103-134.		43
41	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
42	Space and Time Scales in Human-Landscape Systems. Environmental Management, 2014, 53, 76-87.	2.7	42
43	Use of Tracers in Fluvial Geomorphology. , 2005, , 397-423.		41
44	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
45	Assessing Climate Change Impacts on River Flows in the Tonle Sap Lake Basin, Cambodia. Water (Switzerland), 2019, 11, 618.	2.7	41
46	Restoring Rivers and Floodplains for Habitat and Flood Risk Reduction: Experiences in Multi-Benefit Floodplain Management From California and Germany. Frontiers in Environmental Science, 2022, 9, .	3.3	37
47	Sediment Management in Taiwanâ€™s Reservoirs and Barriers to Implementation. Water (Switzerland), 2018, 10, 1034.	2.7	36
48	Deploy diverse renewables to save tropical rivers. Nature, 2019, 569, 330-332.	27.8	35
49	Anticipated geomorphic impacts from Mekong basin dam construction. International Journal of River Basin Management, 2015, 13, 105-121.	2.7	33
50	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
51	Setting Goals in River Restoration: When and Where Can the River â€œHeal Itselfâ€?. Geophysical Monograph Series, 0, , 29-43.	0.1	31
52	Evolving Expectations of Dam Removal Outcomes: Downstream Geomorphic Effects Following Removal of a Small, Gravel-Filled Dam1. Journal of the American Water Resources Association, 2011, 47, 408-423.	2.4	30
53	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
54	Stochastic Modeling of Sediment Connectivity for Reconstructing Sand Fluxes and Origins in the Unmonitored Se Kong, Se San, and Sre Pok Tributaries of the Mekong River. Journal of Geophysical Research F: Earth Surface, 2018, 123, 2-25.	2.8	30

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55	Design Criteria for Process-Based Restoration of Fluvial Systems. BioScience, 2021, 71, 831-845.	4.9	30
56	Save the Mekong Delta from drowning. Science, 2022, 376, 583-585.	12.6	30
57	Sediment Budgets as an Organizing Framework in Fluvial Geomorphology. , 2005, , 463-500.		29
58	Sustainably Managing Reservoir Storage: Ancient Roots of a Modern Challenge. Water (Switzerland), 2018, 10, 117.	2.7	29
59	Habitat Restoration in the Context of Watershed Prioritization: The Ecological Performance of Urban Stream Restoration Projects in Portland, Oregon. River Research and Applications, 2015, 31, 755-766.	1.7	27
60	Analysis of Aerial Photography and Other Remotely Sensed Data. , 2005, , 135-170.		26
61	Planning River Restoration Projects: Social and Cultural Dimensions. , 0, , 41-60.		26
62	Sustaining United States reservoir storage capacity: Need for a new paradigm. Journal of Hydrology, 2021, 602, 126686.	5.4	25
63	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
64	Using Historical Data in Fluvial Geomorphology. , 2005, , 77-101.		22
65	Sediment Transport. , 2005, , 425-461.		22
66	Large Rivers in the Anthropocene: Insights and tools for understanding climatic, land use, and reservoir influences. Water Resources Research, 2014, 50, 3641-3646.	4.2	22
67	Vegetation as a Tool in the Interpretation of Fluvial Geomorphic Processes and Landforms in Humid Temperate Areas. , 2005, , 269-288.		21
68	Systematic Postproject Appraisals to Maximize Lessons Learned from River Restoration Projects: Case Study of Compound Channel Restoration Projects in Northern California. Restoration Ecology, 2007, 15, 524-537.	2.9	21
69	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
70	Anthropogenic landforms and sediments from dredging and disposing sand along the Apalachicola River and its floodplain. Geomorphology, 2017, 294, 119-134.	2.6	21
71	Joint strategic energy and river basin planning to reduce dam impacts on rivers in Myanmar. Environmental Research Letters, 2021, 16, 054054.	5.2	20
72	Urban River Transformation and the Landscape Garden City Movement in China. Sustainability, 2018, 10, 4103.	3.2	18

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73	Strategic planning of hydropower development: balancing benefits and socioenvironmental costs. Current Opinion in Environmental Sustainability, 2022, 56, 101175.	6.3	18
74	Dam Renovation to Prolong Reservoir Life and Mitigate Dam Impacts. Water (Switzerland), 2022, 14, 1464.	2.7	16
75	From flushing flows to (eco)morphogenic releases: evolving terminology, practice, and integration into river management. Earth-Science Reviews, 2021, 213, 103475.	9.1	15
76	Strategic basin and delta planning increases the resilience of the Mekong Delta under future uncertainty. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	15
77	National-local land-use conflicts in floodways of the Mississippi River system. AIMS Environmental Science, 2018, 5, 47-63.	1.4	14
78	Geomorphology and Society. , 0, , 105-118.		14
79	Bed Sediment Measurement. , 2005, , 347-395.		13
80	Geomorphic Classification of Rivers and Streams. , 2005, , 171-204.		13
81	Anticipatory Management for Instream Habitat: Application to Carneros Creek, California. River Research and Applications, 2016, 32, 280-294.	1.7	12
82	Successes, Failures and Suggested Future Directions for Ecosystem Restoration of the Middle Sacramento River, California. San Francisco Estuary and Watershed Science, 2013, 11, .	0.4	12
83	Models in Fluvial Geomorphology. , 2005, , 501-537.		11
84	Evolution of Two Urbanized Estuaries: Environmental Change, Legal Framework, and Implications for Sea-Level Rise Vulnerability. Water (Switzerland), 2016, 8, 535.	2.7	11
85	30-year response to damming of a Mediterranean river in California, USA. Physical Geography, 2018, 39, 197-215.	1.4	11
86	Managing bedload sediment in regulated rivers: Examples from California, U.S.A.. Geophysical Monograph Series, 1995, , 165-176.	0.1	10
87	<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
88	The social life of sediment. Water History, 2021, 13, 1-12.	1.3	10
89	Flood diversions and bypasses: Benefits and challenges. Wiley Interdisciplinary Reviews: Water, 2022, 9, e1562.	6.5	10
90	Quantifying the Uncertainty Created by Nonâ€Transferable Model Calibrations Across Climate and Land Cover Scenarios: A Case Study With SWMM. Water Resources Research, 2022, 58, .	4.2	10

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91	A Method for Assessment of Subâ€Daily Flow Alterations Using Wavelet Analysis for Regulated Rivers. Water Resources Research, 2022, 58, .	4.2	10
92	Radiogenic and Isotopic Methods for the Direct Dating of Fluvial Sediments. , 2005, , 231-267.		9
93	Measurement and Analysis of Alluvial Channel Form. , 2005, , 289-322.		9
94	The Fit of Urban Waterfront Interventions: Matters of Size, Money and Function. Sustainability, 2020, 12, 4079.	3.2	9
95	The reclamation concept in regulation of gravel mining in California. Journal of Environmental Planning and Management, 1993, 36, 395-406.	4.5	8
96	Statistics and Fluvial Geomorphology. , 2005, , 597-630.		8
97	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
98	Bed Mobility on the Deschutes River, Oregon: Tracer Gravel Results. Geodinamica Acta, 2008, 21, 11-22.	2.2	7
99	The Future of a Chinese Water Village. Alternative Design Practices Aimed to Provide New Life for Traditional Water Villages in the Pearl River Delta. Journal of Urban Design, 2010, 15, 243-267.	1.4	7
100	Postâ€Project Appraisals of River Restoration in Advanced University Instruction. Restoration Ecology, 2011, 19, 696-700.	2.9	7
101	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
102	Encroachments in floodways of the Mississippi River and Tributaries Project. Natural Hazards, 2016, 81, 513-542.	3.4	7
103	River research and applications across borders. River Research and Applications, 2019, 35, 768-775.	1.7	7
104	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
105	How Eco is Eco-Tourism? A Systematic Assessment of Resorts on the Red Sea, Egypt. Sustainability, 2020, 12, 10139.	3.2	6
106	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
107	Surficial Geologic Tools in Fluvial Geomorphology. , 2005, , 23-57.		5
108	Flow Measurement and Characterization. , 2005, , 323-346.		5

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109	Using prey availability to evaluate Lower Colorado River riparian restoration. Restoration Ecology, 2019, 27, 46-53.	2.9	5
110	The ideal meander: Exploring freshwater scientist drawings of river restoration. Freshwater Science, 2020, 39, 349-355.	1.8	5
111	Assessment of suspended sediment load variability in the Tonle Sap and Lower Mekong Rivers, Cambodia. Catena, 2021, 202, 105291.	5.0	4
112	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
113	Archaeology and Human Artefacts. , 2005, , 59-75.		3
114	Numerical Modeling of Alluvial Landforms. , 2005, , 577-595.		3
115	Modelling Catchment Processes. , 2005, , 205-230.		3
116	Integrating Geomorphological Tools in Ecological and Management Studies. , 2005, , 631-660.		3
117	Sustainable Tourism along the Red Sea: Still Possible?. Civil Engineering and Architecture, 2016, 4, 39-46.	0.4	3
118	Bridges Over the Nile. Transportation Corridors Transformed into Public Spaces. The Journal of Public Space, 2020, , 5-20.	0.2	2
119	Les lÃ¢chers morphogÃ¨nes depuis un barrageâ€‰ justification opÃ©rationnelle et protocole d'intervention. Houille Blanche, 2020, 106, 66-75.	0.3	2
120	REPLY TO DISCUSSION by Panayiotis Diplas and Vinod K. Lohani.. Journal of the American Water Resources Association, 1997, 33, 1401-1402.	2.4	1
121	Tools in Fluvial Geomorphology: Problem Statement and Recent Practice. , 2005, , 1-22.		0
122	Modeling and predicting natural gas fracking pad landscapes require a multidisciplinary approach: A commentary. Landscape and Urban Planning, 2018, 170, 325-328.	7.5	0
123	Title is missing!. , 2020, 15, e0242356.		0
124	Title is missing!. , 2020, 15, e0242356.		0
125	Title is missing!. , 2020, 15, e0242356.		0
126	Title is missing!. , 2020, 15, e0242356.		0