

GMathias Kondolf

List of Publications by Year in descending order

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Version: 2024-02-01

126
papers

9,806
citations

76196

40
h-index

38300

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. <i>Science</i> , 2005, 308, 636-637.	6.0	1,552
2	PROFILE: Hungry Water: Effects of Dams and Gravel Mining on River Channels. <i>Environmental Management</i> , 1997, 21, 533-551.	1.2	1,084
3	Sustainable sediment management in reservoirs and regulated rivers: Experiences from five continents. <i>Earth's Future</i> , 2014, 2, 256-280.	2.4	556
4	Fine-grained sediment in river systems: environmental significance and management issues. <i>River Research and Applications</i> , 2005, 21, 693-717.	0.7	516
5	River restoration. <i>Water Resources Research</i> , 2005, 41, .	1.7	452
6	Dams on the Mekong: Cumulative sediment starvation. <i>Water Resources Research</i> , 2014, 50, 5158-5169.	1.7	305
7	Process-Based Ecological River Restoration: Visualizing Three-Dimensional Connectivity and Dynamic Vectors to Recover Lost Linkages. <i>Ecology and Society</i> , 2006, 11, .	1.0	284
8	Geomorphic and environmental effects of instream gravel mining. <i>Landscape and Urban Planning</i> , 1994, 28, 225-243.	3.4	258
9	Evaluating stream restoration projects. <i>Environmental Management</i> , 1995, 19, 1-15.	1.2	256
10	Assessing Salmonid Spawning Gravel Quality. <i>Transactions of the American Fisheries Society</i> , 2000, 129, 262-281.	0.6	223
11	Five Elements for Effective Evaluation of Stream Restoration. <i>Restoration Ecology</i> , 1995, 3, 133-136.	1.4	220
12	Post-Project Appraisals in Adaptive Management of River Channel Restoration. <i>Environmental Management</i> , 2002, 29, 477-496.	1.2	191
13	The Flushing Flow Problem: Defining and Evaluating Objectives. <i>Water Resources Research</i> , 1996, 32, 2589-2599.	1.7	189
14	Changing sediment budget of the Mekong: Cumulative threats and management strategies for a large river basin. <i>Science of the Total Environment</i> , 2018, 625, 114-134.	3.9	182
15	River Restoration and Meanders. <i>Ecology and Society</i> , 2006, 11, .	1.0	155
16	Two Decades of River Restoration in California: What Can We Learn?. <i>Restoration Ecology</i> , 2007, 15, 516-523.	1.4	146
17	Design and Performance of a Channel Reconstruction Project in a Coastal California Gravel-Bed Stream. <i>Environmental Management</i> , 2001, 28, 761-776.	1.2	142
18	Lessons learned from river restoration projects in California. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 1998, 8, 39-52.	0.9	130

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19	Controls on the alluviation of oxbow lakes by bed-material load along the Sacramento River, California. <i>Sedimentology</i> , 2010, 57, 389-407.	1.6	127
20	APPLICATION OF THE PEBBLE COUNT NOTES ON PURPOSE, METHOD, AND VARIANTS. <i>Journal of the American Water Resources Association</i> , 1997, 33, 79-87.	1.0	105
21	Improved trade-offs of hydropower and sand connectivity by strategic dam planning in the Mekong. <i>Nature Sustainability</i> , 2018, 1, 96-104.	11.5	102
22	Geomorphological stream channel classification in aquatic habitat restoration: Uses and limitations. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 1995, 5, 127-141.	0.9	100
23	Changes in the riparian zone of the lower Eygues River, France, since 1830. <i>Landscape Ecology</i> , 2007, 22, 367-384.	1.9	87
24	The social connectivity of urban rivers. <i>Geomorphology</i> , 2017, 277, 182-196.	1.1	86
25	Historical channel analysis and its application to riparian and aquatic habitat restoration. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 1995, 5, 109-126.	0.9	85
26	Biomic river restoration: A new focus for river management. <i>River Research and Applications</i> , 2020, 36, 3-12.	0.7	83
27	LARGE WOODY DEBRIS IN URBAN STREAM CHANNELS: REDEFINING THE PROBLEM. <i>River Research and Applications</i> , 2012, 28, 1477-1487.	0.7	79
28	Planning dam portfolios for low sediment trapping shows limits for sustainable hydropower in the Mekong. <i>Science Advances</i> , 2019, 5, eaaw2175.	4.7	79
29	Measuring and Modeling the Hydraulic Environment for Assessing Instream Flows. <i>North American Journal of Fisheries Management</i> , 2000, 20, 1016-1028.	0.5	74
30	Unmeasured Residuals in Sediment Budgets: A Cautionary Note. <i>Water Resources Research</i> , 1991, 27, 2483-2486.	1.7	68
31	Some Suggested Guidelines for Geomorphic Aspects of Anadromous Salmonid Habitat Restoration Proposals. <i>Restoration Ecology</i> , 2000, 8, 48-56.	1.4	66
32	Urban Stream and Wetland Restoration in the Global South – A DPSIR Analysis. <i>Sustainability</i> , 2019, 11, 4975.	1.6	61
33	Distribution and Stability of Potential Salmonid Spawning Gravels in Steep Boulder-Bed Streams of the Eastern Sierra Nevada. <i>Transactions of the American Fisheries Society</i> , 1991, 120, 177-186.	0.6	57
34	Evaluating Stream Restoration Projects: What Do We Learn from Monitoring?. <i>Water (Switzerland)</i> , 2017, 9, 174.	1.2	56
35	Flow and Sediment-Transport Modeling. , 2005, , 539-576.		53
36	Restoring mediterranean-climate rivers. <i>Hydrobiologia</i> , 2013, 719, 527-545.	1.0	52

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37	A reservoir operating method for riverine ecosystem protection, reservoir sedimentation control and water supply. <i>Journal of Hydrology</i> , 2014, 512, 379-387.	2.3	48
38	Lag in Stream Channel Adjustment to Livestock Enclosure, White Mountains, California. <i>Restoration Ecology</i> , 1993, 1, 226-230.	1.4	44
39	Chapter 11 Hydrological effects of dams and water diversions on rivers of Mediterranean-climate regions: examples from California. <i>Developments in Earth Surface Processes</i> , 2005, 7, 197-211.	2.8	44
40	System Approaches in Fluvial Geomorphology. , 2005, , 103-134.		43
41	Hydrologic impacts of small-scale instream diversions for frost and heat protection in the California wine country. <i>River Research and Applications</i> , 2009, 25, 118-134.	0.7	43
42	Space and Time Scales in Human-Landscape Systems. <i>Environmental Management</i> , 2014, 53, 76-87.	1.2	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. <i>Environmental Management</i> , 2008, 42, 933-945.	1.2	41
45	Assessing Climate Change Impacts on River Flows in the Tonle Sap Lake Basin, Cambodia. <i>Water (Switzerland)</i> , 2019, 11, 618.	1.2	41
46	Restoring Rivers and Floodplains for Habitat and Flood Risk Reduction: Experiences in Multi-Benefit Floodplain Management From California and Germany. <i>Frontiers in Environmental Science</i> , 2022, 9, .	1.5	37
47	Sediment Management in Taiwan's Reservoirs and Barriers to Implementation. <i>Water (Switzerland)</i> , 2018, 10, 1034.	1.2	36
48	Deploy diverse renewables to save tropical rivers. <i>Nature</i> , 2019, 569, 330-332.	13.7	35
49	Anticipated geomorphic impacts from Mekong basin dam construction. <i>International Journal of River Basin Management</i> , 2015, 13, 105-121.	1.5	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. <i>Pure and Applied Geophysics</i> , 2015, 172, 1975-1984.	0.8	32
51	Setting Goals in River Restoration: When and Where Can the River "Heal Itself"? <i>Geophysical Monograph Series</i> , 0, , 29-43.	0.1	31
52	Evolving Expectations of Dam Removal Outcomes: Downstream Geomorphic Effects Following Removal of a Small, Gravel-Filled Dam1. <i>Journal of the American Water Resources Association</i> , 2011, 47, 408-423.	1.0	30
53	Upstream Sediment Control Dams: Five Decades of Experience in the Rapidly Eroding Dahan River Basin, Taiwan. <i>Journal of the American Water Resources Association</i> , 2014, 50, 735-747.	1.0	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. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 2-25.	1.0	30

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55	Design Criteria for Process-Based Restoration of Fluvial Systems. <i>BioScience</i> , 2021, 71, 831-845.	2.2	30
56	Save the Mekong Delta from drowning. <i>Science</i> , 2022, 376, 583-585.	6.0	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. <i>Water (Switzerland)</i> , 2018, 10, 117.	1.2	29
59	Habitat Restoration in the Context of Watershed Prioritization: The Ecological Performance of Urban Stream Restoration Projects in Portland, Oregon. <i>River Research and Applications</i> , 2015, 31, 755-766.	0.7	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. <i>Journal of Hydrology</i> , 2021, 602, 126686.	2.3	25
63	Restoring fluvial forms and processes by gravel augmentation or bank erosion below dams: A systematic review of ecological responses. <i>Science of the Total Environment</i> , 2020, 706, 135743.	3.9	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. <i>Water Resources Research</i> , 2014, 50, 3641-3646.	1.7	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. <i>Restoration Ecology</i> , 2007, 15, 524-537.	1.4	21
69	Surface water balance to evaluate the hydrological impacts of small instream diversions and application to the Russian River basin, California, USA. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2009, 19, 274-284.	0.9	21
70	Anthropogenic landforms and sediments from dredging and disposing sand along the Apalachicola River and its floodplain. <i>Geomorphology</i> , 2017, 294, 119-134.	1.1	21
71	Joint strategic energy and river basin planning to reduce dam impacts on rivers in Myanmar. <i>Environmental Research Letters</i> , 2021, 16, 054054.	2.2	20
72	Urban River Transformation and the Landscape Garden City Movement in China. <i>Sustainability</i> , 2018, 10, 4103.	1.6	18

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73	Strategic planning of hydropower development: balancing benefits and socioenvironmental costs. <i>Current Opinion in Environmental Sustainability</i> , 2022, 56, 101175.	3.1	18
74	Dam Renovation to Prolong Reservoir Life and Mitigate Dam Impacts. <i>Water (Switzerland)</i> , 2022, 14, 1464.	1.2	16
75	From flushing flows to (eco)morphogenic releases: evolving terminology, practice, and integration into river management. <i>Earth-Science Reviews</i> , 2021, 213, 103475.	4.0	15
76	Strategic basin and delta planning increases the resilience of the Mekong Delta under future uncertainty. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	15
77	National-local land-use conflicts in floodways of the Mississippi River system. <i>AIMS Environmental Science</i> , 2018, 5, 47-63.	0.7	14
78	<i>Geomorphology and Society</i> , , 0, , 105-118.		14
79	<i>Bed Sediment Measurement</i> , , 2005, , 347-395.		13
80	<i>Geomorphic Classification of Rivers and Streams</i> , , 2005, , 171-204.		13
81	Anticipatory Management for Instream Habitat: Application to Carneros Creek, California. <i>River Research and Applications</i> , 2016, 32, 280-294.	0.7	12
82	Successes, Failures and Suggested Future Directions for Ecosystem Restoration of the Middle Sacramento River, California. <i>San Francisco Estuary and Watershed Science</i> , 2013, 11, .	0.2	12
83	<i>Models in Fluvial Geomorphology</i> , , 2005, , 501-537.		11
84	Evolution of Two Urbanized Estuaries: Environmental Change, Legal Framework, and Implications for Sea-Level Rise Vulnerability. <i>Water (Switzerland)</i> , 2016, 8, 535.	1.2	11
85	30-year response to damming of a Mediterranean river in California, USA. <i>Physical Geography</i> , 2018, 39, 197-215.	0.6	11
86	Managing bedload sediment in regulated rivers: Examples from California, U.S.A.. <i>Geophysical Monograph Series</i> , 1995, , 165-176.	0.1	10
87	The Line of Beauty in River Designs: Hogarth's Aesthetic Theory on Capability Brown's Eighteenth-Century River Design and Twentieth-Century River Restoration Design. <i>Landscape Research</i> , 2016, 41, 149-167.	0.7	10
88	The social life of sediment. <i>Water History</i> , 2021, 13, 1-12.	0.5	10
89	Flood diversions and bypasses: Benefits and challenges. <i>Wiley Interdisciplinary Reviews: Water</i> , 2022, 9, e1562.	2.8	10
90	Quantifying the Uncertainty Created by Non-transferable Model Calibrations Across Climate and Land Cover Scenarios: A Case Study With SWMM. <i>Water Resources Research</i> , 2022, 58, .	1.7	10

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91	A Method for Assessment of Subâ€Daily Flow Alterations Using Wavelet Analysis for Regulated Rivers. <i>Water Resources Research</i> , 2022, 58, .	1.7	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. <i>Sustainability</i> , 2020, 12, 4079.	1.6	9
95	The reclamation concept in regulation of gravel mining in California. <i>Journal of Environmental Planning and Management</i> , 1993, 36, 395-406.	2.4	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. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 1926-1944.	1.2	8
98	Bed Mobility on the Deschutes River, Oregon: Tracer Gravel Results. <i>Geodinamica Acta</i> , 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. <i>Journal of Urban Design</i> , 2010, 15, 243-267.	0.6	7
100	Postâ€Project Appraisals of River Restoration in Advanced University Instruction. <i>Restoration Ecology</i> , 2011, 19, 696-700.	1.4	7
101	Consequences of variations in magnitude and duration of an instream environmental flow threshold across a longitudinal gradient. <i>Journal of Hydrology</i> , 2012, 420-421, 17-24.	2.3	7
102	Encroachments in floodways of the Mississippi River and Tributaries Project. <i>Natural Hazards</i> , 2016, 81, 513-542.	1.6	7
103	River research and applications across borders. <i>River Research and Applications</i> , 2019, 35, 768-775.	0.7	7
104	Assessment of the Effectiveness of a Constructed Compound Channel River Restoration Project on an Incised Stream. <i>Journal of Hydraulic Engineering</i> , 2010, 136, 1042-1052.	0.7	6
105	How Eco is Eco-Tourism? A Systematic Assessment of Resorts on the Red Sea, Egypt. <i>Sustainability</i> , 2020, 12, 10139.	1.6	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. <i>PLoS ONE</i> , 2020, 15, e0242356.	1.1	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.	1.4	5
110	The ideal meander: Exploring freshwater scientist drawings of river restoration. Freshwater Science, 2020, 39, 349-355.	0.9	5
111	Assessment of suspended sediment load variability in the Tonle Sap and Lower Mekong Rivers, Cambodia. Catena, 2021, 202, 105291.	2.2	4
112	REPLY TO DISCUSSION by Gregory S. Bevenger and Rudy M. King.. Journal of the American Water Resources Association, 1997, 33, 1395-1396.	1.0	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.	0.2	3
118	Bridges Over the Nile. Transportation Corridors Transformed into Public Spaces. The Journal of Public Space, 2020, , 5-20.	0.1	2
119	Les lâchiers 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.	1.0	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.	3.4	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