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	Flood diversions and bypasses: Benefits and challenges. Wiley Interdisciplinary Reviews: Water, 2022, 9, e1562.	6.5	10
2	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
3	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
4	A Method for Assessment of Subâ€Daily Flow Alterations Using Wavelet Analysis for Regulated Rivers. Water Resources Research, 2022, 58, .	4.2	10
5	Save the Mekong Delta from drowning. Science, 2022, 376, 583-585.	12.6	30
6	Dam Renovation to Prolong Reservoir Life and Mitigate Dam Impacts. Water (Switzerland), 2022, 14, 1464.	2.7	16
7	Strategic planning of hydropower development: balancing benefits and socioenvironmental costs. Current Opinion in Environmental Sustainability, 2022, 56, 101175.	6.3	18
8	From flushing flows to (eco)morphogenic releases: evolving terminology, practice, and integration into river management. Earth-Science Reviews, 2021, 213, 103475.	9.1	15
9	The social life of sediment. Water History, 2021, 13, 1-12.	1.3	10
10	Joint strategic energy and river basin planning to reduce dam impacts on rivers in Myanmar. Environmental Research Letters, 2021, 16, 054054.	5.2	20
11	Design Criteria for Process-Based Restoration of Fluvial Systems. BioScience, 2021, 71, 831-845.	4.9	30
12	Assessment of suspended sediment load variability in the Tonle Sap and Lower Mekong Rivers, Cambodia. Catena, 2021, 202, 105291.	5.0	4
13	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
14	Sustaining United States reservoir storage capacity: Need for a new paradigm. Journal of Hydrology, 2021, 602, 126686.	5.4	25
15	Biomic river restoration: A new focus for river management. River Research and Applications, 2020, 36, 3-12.	1.7	83
16	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
17	How Eco is Eco-Tourism? A Systematic Assessment of Resorts on the Red Sea, Egypt. Sustainability, 2020, 12, 10139.	3.2	6
18	The Fit of Urban Waterfront Interventions: Matters of Size, Money and Function. Sustainability, 2020, 12, 4079.	3.2	9

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19	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
20	The ideal meander: Exploring freshwater scientist drawings of river restoration. Freshwater Science, 2020, 39, 349-355.	1.8	5
21	Bridges Over the Nile. Transportation Corridors Transformed into Public Spaces. The Journal of Public Space, 2020, , 5-20.	0.2	2
22	Les lÃ¢chers morphogÃ¨nes depuis un barrageâ€‰ justification opÃ©rationnelle et protocole d'intervention. Houille Blanche, 2020, 106, 66-75.	0.3	2
23	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
24	Title is missing!. , 2020, 15, e0242356.		0
25	Title is missing!. , 2020, 15, e0242356.		0
26	Title is missing!. , 2020, 15, e0242356.		0
27	Title is missing!. , 2020, 15, e0242356.		0
28	Using prey availability to evaluate Lower Colorado River riparian restoration. Restoration Ecology, 2019, 27, 46-53.	2.9	5
29	Urban Stream and Wetland Restoration in the Global Southâ€"A DPSIR Analysis. Sustainability, 2019, 11, 4975.	3.2	61
30	Deploy diverse renewables to save tropical rivers. Nature, 2019, 569, 330-332.	27.8	35
31	River research and applications across borders. River Research and Applications, 2019, 35, 768-775.	1.7	7
32	Assessing Climate Change Impacts on River Flows in the Tonle Sap Lake Basin, Cambodia. Water (Switzerland), 2019, 11, 618.	2.7	41
33	Planning dam portfolios for low sediment trapping shows limits for sustainable hydropower in the Mekong. Science Advances, 2019, 5, eaaw2175.	10.3	79
34	Improved trade-offs of hydropower and sand connectivity by strategic dam planning in the Mekong. Nature Sustainability, 2018, 1, 96-104.	23.7	102
35	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
36	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

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37	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
38	30-year response to damming of a Mediterranean river in California, USA. Physical Geography, 2018, 39, 197-215.	1.4	11
39	Urban River Transformation and the Landscape Garden City Movement in China. Sustainability, 2018, 10, 4103.	3.2	18
40	Sustainably Managing Reservoir Storage: Ancient Roots of a Modern Challenge. Water (Switzerland), 2018, 10, 117.	2.7	29
41	Sediment Management in Taiwanâ€™s Reservoirs and Barriers to Implementation. Water (Switzerland), 2018, 10, 1034.	2.7	36
42	National-local land-use conflicts in floodways of the Mississippi River system. AIMS Environmental Science, 2018, 5, 47-63.	1.4	14
43	Anthropogenic landforms and sediments from dredging and disposing sand along the Apalachicola River and its floodplain. Geomorphology, 2017, 294, 119-134.	2.6	21
44	The social connectivity of urban rivers. Geomorphology, 2017, 277, 182-196.	2.6	86
45	Evaluating Stream Restoration Projects: What Do We Learn from Monitoring?. Water (Switzerland), 2017, 9, 174.	2.7	56
46	Evolution of Two Urbanized Estuaries: Environmental Change, Legal Framework, and Implications for Sea-Level Rise Vulnerability. Water (Switzerland), 2016, 8, 535.	2.7	11
47	Anticipatory Management for Instream Habitat: Application to Carneros Creek, California. River Research and Applications, 2016, 32, 280-294.	1.7	12
48	Encroachments in floodways of the Mississippi River and Tributaries Project. Natural Hazards, 2016, 81, 513-542.	3.4	7
49	<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
50	Sustainable Tourism along the Red Sea: Still Possible?. Civil Engineering and Architecture, 2016, 4, 39-46.	0.4	3
51	Anticipated geomorphic impacts from Mekong basin dam construction. International Journal of River Basin Management, 2015, 13, 105-121.	2.7	33
52	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
53	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
54	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

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55	Sustainable sediment management in reservoirs and regulated rivers: Experiences from five continents. Earth's Future, 2014, 2, 256-280.	6.3	556
56	Dams on the Mekong: Cumulative sediment starvation. Water Resources Research, 2014, 50, 5158-5169.	4.2	305
57	A reservoir operating method for riverine ecosystem protection, reservoir sedimentation control and water supply. Journal of Hydrology, 2014, 512, 379-387.	5.4	48
58	Space and Time Scales in Human-Landscape Systems. Environmental Management, 2014, 53, 76-87.	2.7	42
59	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
60	Restoring mediterranean-climate rivers. Hydrobiologia, 2013, 719, 527-545.	2.0	52
61	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
62	LARGE WOODY DEBRIS IN URBAN STREAM CHANNELS: REDEFINING THE PROBLEM. River Research and Applications, 2012, 28, 1477-1487.	1.7	79
63	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
64	Postâ€Project Appraisals of River Restoration in Advanced University Instruction. Restoration Ecology, 2011, 19, 696-700.	2.9	7
65	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
66	Controls on the alluviation of oxbow lakes by bed-material load along the Sacramento River, California. Sedimentology, 2010, 57, 389-407.	3.1	127
67	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
68	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
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	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
71	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
72	Bed Mobility on the Deschutes River, Oregon: Tracer Gravel Results. Geodinamica Acta, 2008, 21, 11-22.	2.2	7

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73	Two Decades of River Restoration in California: What Can We Learn?. Restoration Ecology, 2007, 15, 516-523.	2.9	146
74	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
75	Changes in the riparian zone of the lower Eygues River, France, since 1830. Landscape Ecology, 2007, 22, 367-384.	4.2	87
76	River Restoration and Meanders. Ecology and Society, 2006, 11, .	2.3	155
77	Process-Based Ecological River Restoration: Visualizing Three-Dimensional Connectivity and Dynamic Vectors to Recover Lost Linkages. Ecology and Society, 2006, 11, .	2.3	284
78	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
79	Radiogenic and Isotopic Methods for the Direct Dating of Fluvial Sediments. , 2005, , 231-267.		9
80	Archaeology and Human Artefacts. , 2005, , 59-75.		3
81	Surficial Geologic Tools in Fluvial Geomorphology. , 2005, , 23-57.		5
82	Vegetation as a Tool in the Interpretation of Fluvial Geomorphic Processes and Landforms in Humid Temperate Areas. , 2005, , 269-288.		21
83	Statistics and Fluvial Geomorphology. , 2005, , 597-630.		8
84	Analysis of Aerial Photography and Other Remotely Sensed Data. , 2005, , 135-170.		26
85	Using Historical Data in Fluvial Geomorphology. , 2005, , 77-101.		22
86	Sediment Transport. , 2005, , 425-461.		22
87	Tools in Fluvial Geomorphology: Problem Statement and Recent Practice. , 2005, , 1-22.		0
88	Flow Measurement and Characterization. , 2005, , 323-346.		5
89	Use of Tracers in Fluvial Geomorphology. , 2005, , 397-423.		41
90	Sediment Budgets as an Organizing Framework in Fluvial Geomorphology. , 2005, , 463-500.		29

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91	Bed Sediment Measurement. , 2005, , 347-395.		13
92	Flow and Sediment-Transport Modeling. , 2005, , 539-576.		53
93	Numerical Modeling of Alluvial Landforms. , 2005, , 577-595.		3
94	Modelling Catchment Processes. , 2005, , 205-230.		3
95	ECOLOGY: Synthesizing U.S. River Restoration Efforts. Science, 2005, 308, 636-637.	12.6	1,552
96	Fine-grained sediment in river systems: environmental significance and management issues. River Research and Applications, 2005, 21, 693-717.	1.7	516
97	Integrating Geomorphological Tools in Ecological and Management Studies. , 2005, , 631-660.		3
98	System Approaches in Fluvial Geomorphology. , 2005, , 103-134.		43
99	Models in Fluvial Geomorphology. , 2005, , 501-537.		11
100	River restoration. Water Resources Research, 2005, 41, .	4.2	452
101	Measurement and Analysis of Alluvial Channel Form. , 2005, , 289-322.		9
102	Geomorphic Classification of Rivers and Streams. , 2005, , 171-204.		13
103	Post-Project Appraisals in Adaptive Management of River Channel Restoration. Environmental Management, 2002, 29, 477-496.	2.7	191
104	Design and Performance of a Channel Reconstruction Project in a Coastal California Gravel-Bed Stream. Environmental Management, 2001, 28, 761-776.	2.7	142
105	Assessing Salmonid Spawning Gravel Quality. Transactions of the American Fisheries Society, 2000, 129, 262-281.	1.4	223
106	Some Suggested Guidelines for Geomorphic Aspects of Anadromous Salmonid Habitat Restoration Proposals. Restoration Ecology, 2000, 8, 48-56.	2.9	66
107	Measuring and Modeling the Hydraulic Environment for Assessing Instream Flows. North American Journal of Fisheries Management, 2000, 20, 1016-1028.	1.0	74
108	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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109	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
110	REPLY TO DISCUSSION by Panayiotis Diplas and Vinod K. Lohani.. Journal of the American Water Resources Association, 1997, 33, 1401-1402.	2.4	1
111	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
112	PROFILE: Hungry Water: Effects of Dams and Gravel Mining on River Channels. Environmental Management, 1997, 21, 533-551.	2.7	1,084
113	The Flushing Flow Problem: Defining and Evaluating Objectives. Water Resources Research, 1996, 32, 2589-2599.	4.2	189
114	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
115	Geomorphological stream channel classification in aquatic habitat restoration: Uses and limitations. Aquatic Conservation: Marine and Freshwater Ecosystems, 1995, 5, 127-141.	2.0	100
116	Evaluating stream restoration projects. Environmental Management, 1995, 19, 1-15.	2.7	256
117	Five Elements for Effective Evaluation of Stream Restoration. Restoration Ecology, 1995, 3, 133-136.	2.9	220
118	Managing bedload sediment in regulated rivers: Examples from California, U.S.A.. Geophysical Monograph Series, 1995, , 165-176.	0.1	10
119	Geomorphic and environmental effects of instream gravel mining. Landscape and Urban Planning, 1994, 28, 225-243.	7.5	258
120	Lag in Stream Channel Adjustment to Livestock Exclosure, White Mountains, California. Restoration Ecology, 1993, 1, 226-230.	2.9	44
121	The reclamation concept in regulation of gravel mining in California. Journal of Environmental Planning and Management, 1993, 36, 395-406.	4.5	8
122	Unmeasured Residuals in Sediment Budgets: A Cautionary Note. Water Resources Research, 1991, 27, 2483-2486.	4.2	68
123	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
124	Planning River Restoration Projects: Social and Cultural Dimensions. , 0, , 41-60.		26
125	Setting Goals in River Restoration: When and Where Can the River â€œHeal Itselfâ€?. Geophysical Monograph Series, 0, , 29-43.	0.1	31
126	Geomorphology and Society. , 0, , 105-118.		14