

Michael R Willig

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

6,785
citations

61945

43
h-index

66879

78
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all docs

102
docs citations

102
times ranked

8618
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving NGSS focused model-based learning curriculum through the examination of students'™ experiences and iterated models. <i>Research in Science and Technological Education</i> , 2023, 41, 983-1007.	1.4	1
2	Long-term trends in gastropod abundance and biodiversity: Disentangling effects of press versus pulse disturbances. <i>Global Ecology and Biogeography</i> , 2022, 31, 247-265.	2.7	6
3	Long-term responses of gastropods to simulated hurricanes in a tropical montane rainforest. <i>Ecosphere</i> , 2022, 13, .	1.0	2
4	From island biogeography to landscape and metacommunity ecology: A macroecological perspective of bat communities. <i>Annals of the New York Academy of Sciences</i> , 2022, 1514, 43-61.	1.8	1
5	Non-Separable Spatio-Temporal Models via Transformed Multivariate Gaussian Markov Random Fields. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2022, 71, 1116-1136.	0.5	3
6	Disturbance and resilience in the Luquillo Experimental Forest. <i>Biological Conservation</i> , 2021, 253, 108891.	1.9	32
7	Lizard and frog removal increases spider abundance but does not cascade to increase herbivory. <i>Biotropica</i> , 2021, 53, 681-692.	0.8	6
8	Unravelling the effects of multiple types of disturbance on an aquatic plant metacommunity in freshwater lakes. <i>Freshwater Biology</i> , 2021, 66, 1395-1409.	1.2	4
9	A canonical metacommunity structure over 3 decades: ecologically consistent but spatially dynamic patterns in a hurricane-prone montane forest. <i>Oecologia</i> , 2021, 196, 919-933.	0.9	7
10	Effects of Host Species Identity and Diet on the Biodiversity of the Microbiota in Puerto Rican Bats. <i>Current Microbiology</i> , 2021, 78, 3526-3540.	1.0	2
11	Arthropods are not declining but are responsive to disturbance in the Luquillo Experimental Forest, Puerto Rico. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	39
12	Resistance, resilience, and vulnerability of social-ecological systems to hurricanes in Puerto Rico. <i>Ecosphere</i> , 2020, 11, e03159.	1.0	15
13	Functional volumes, niche packing and species richness: biogeographic legacies in the Congo Basin. <i>Royal Society Open Science</i> , 2020, 7, 191582.	1.1	9
14	Conservation prioritization based on trait-based metrics illustrated with global parrot distributions. <i>Diversity and Distributions</i> , 2019, 25, 1156-1165.	1.9	34
15	Checkerboard metacommunity structure: an incoherent concept. <i>Oecologia</i> , 2019, 190, 323-331.	0.9	18
16	Landscape ecology of mammals. <i>Journal of Mammalogy</i> , 2019, 100, 1044-1068.	0.6	35
17	Guild-level responses of bats to habitat conversion in a lowland Amazonian rainforest: species composition and biodiversity. <i>Journal of Mammalogy</i> , 2019, 100, 223-238.	0.6	13
18	Phylogenetic supertree and functional trait database for all extant parrots. <i>Data in Brief</i> , 2019, 24, 103882.	0.5	15

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19	The spatial configuration of taxonomic biodiversity along a tropical elevational gradient: β -diversity, α -diversity, and γ -diversity. <i>Biotropica</i> , 2019, 51, 104-116.	0.8	4
20	Warnings of an "insect apocalypse" are premature. <i>Frontiers in Ecology and the Environment</i> , 2019, 17, 547-547.	1.9	12
21	Reconciling biodiversity and carbon stock conservation in an Afrotropical forest landscape. <i>Science Advances</i> , 2018, 4, eaar6603.	4.7	40
22	Phylogenetic and functional underdispersion in Neotropical phyllostomid bat communities. <i>Biotropica</i> , 2018, 50, 135-145.	0.8	21
23	BioTIME: A database of biodiversity time series for the Anthropocene. <i>Global Ecology and Biogeography</i> , 2018, 27, 760-786.	2.7	289
24	Effects of forest height and vertical complexity on abundance and biodiversity of bats in Amazonia. <i>Forest Ecology and Management</i> , 2017, 391, 427-435.	1.4	39
25	The database of the <sc>PREDICTS</sc> (Projecting Responses of Ecological Diversity In Changing) Tj ETQq1 1 0,784314 rgBT /Overl 0,8 186	0.8	186
26	Decomposing functional diversity. <i>Methods in Ecology and Evolution</i> , 2017, 8, 809-820.	2.2	62
27	Standardized Assessment of Biodiversity Trends in Tropical Forest Protected Areas: The End Is Not in Sight. <i>PLoS Biology</i> , 2016, 14, e1002357.	2.6	117
28	Biodiversity and metacommunity structure of animals along altitudinal gradients in tropical montane forests. <i>Journal of Tropical Ecology</i> , 2016, 32, 421-436.	0.5	54
29	Community assembly in temperate forest birds: habitat filtering, interspecific interactions and priority effects. <i>Evolutionary Ecology</i> , 2016, 30, 703-722.	0.5	24
30	Matrix composition and landscape heterogeneity structure multiple dimensions of biodiversity in temperate forest birds. <i>Biodiversity and Conservation</i> , 2016, 25, 2687-2708.	1.2	22
31	Environmental and spatial drivers of taxonomic, functional, and phylogenetic characteristics of bat communities in human-modified landscapes. <i>PeerJ</i> , 2016, 4, e2551.	0.9	19
32	Phylogenetic signals in host-parasite associations for Neotropical bats and Nearctic desert rodents. <i>Biological Journal of the Linnean Society</i> , 2015, 116, 312-327.	0.7	12
33	Bird biodiversity assessments in temperate forest: the value of point count versus acoustic monitoring protocols. <i>PeerJ</i> , 2015, 3, e973.	0.9	49
34	Cascading Effects of Canopy Opening and Debris Deposition from a Large-Scale Hurricane Experiment in a Tropical Rain Forest. <i>BioScience</i> , 2015, 65, 871-881.	2.2	73
35	Effects of human-modified landscapes on taxonomic, functional and phylogenetic dimensions of bat biodiversity. <i>Diversity and Distributions</i> , 2015, 21, 523-533.	1.9	111
36	Bayesian Markov Chain Random Field Cosimulation for Improving Land Cover Classification Accuracy. <i>Mathematical Geosciences</i> , 2015, 47, 123-148.	1.4	29

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37	Season-specific and guild-specific effects of anthropogenic landscape modification on metacommunity structure of tropical bats. <i>Journal of Animal Ecology</i> , 2015, 84, 373-385.	1.3	52
38	<scp>BIOFRAG</scp> â€“ a new database for analyzing <scp>BIO</scp>diversity responses to forest <scp>FRAG</scp>mentation. <i>Ecology and Evolution</i> , 2014, 4, 1524-1537.	0.8	29
39	Multiple dimensions of bat biodiversity along an extensive tropical elevational gradient. <i>Journal of Animal Ecology</i> , 2014, 83, 1124-1136.	1.3	77
40	Responses to canopy loss and debris deposition in a tropical forest ecosystem: Synthesis from an experimental manipulation simulating effects of hurricane disturbance. <i>Forest Ecology and Management</i> , 2014, 332, 124-133.	1.4	61
41	Experimental decoupling of canopy opening and debris addition on tropical gastropod populations and communities. <i>Forest Ecology and Management</i> , 2014, 332, 103-117.	1.4	18
42	Evaluation of an Integrated Framework for Biodiversity with a New Metric for Functional Dispersion. <i>PLoS ONE</i> , 2014, 9, e105818.	1.1	15
43	Hierarchical dynamic models for multivariate times series of counts. <i>Statistics and Its Interface</i> , 2014, 7, 559-570.	0.2	15
44	Updating Categorical Soil Maps Using Limited Survey Data by Bayesian Markov Chain Cosimulation. <i>Scientific World Journal</i> , The, 2013, 2013, 1-13.	0.8	8
45	Vertebrate metacommunity structure along an extensive elevational gradient in the tropics: a comparison of bats, rodents and birds. <i>Global Ecology and Biogeography</i> , 2012, 21, 968-976.	2.7	55
46	Conceptual Overview. , 2012, , 42-71.		13
47	Geographic and Ecological Setting of the Luquillo Mountains. , 2012, , 72-163.		24
48	Response to Disturbance. , 2012, , 201-271.		18
49	Long-Term Research in the Luquillo Mountains. , 2012, , 361-442.		5
50	Biodiversity and Productivity. <i>Science</i> , 2011, 333, 1709-1710.	6.0	51
51	The underpinnings of the relationship of species richness with space and time. <i>Ecological Monographs</i> , 2011, 81, 195-213.	2.4	114
52	A Complex Metacommunity Structure for Gastropods Along an Elevational Gradient. <i>Biotropica</i> , 2011, 43, 480-488.	0.8	29
53	Tropical metacommunities along elevational gradients: effects of forest type and other environmental factors. <i>Oikos</i> , 2011, 120, 1497-1508.	1.2	62
54	Long-term dynamics of tropical walking sticks in response to multiple large-scale and intense disturbances. <i>Oecologia</i> , 2011, 165, 357-368.	0.9	23

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55	Intervention Analysis of Hurricane Effects on Snail Abundance in a Tropical Forest Using Long-Term Spatiotemporal Data. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2011, 16, 142-156.	0.7	8
56	The Effect of Soil Texture on Richness and Diversity of Bacterial Communities. <i>Environmental Forensics</i> , 2011, 12, 333-341.	1.3	157
57	Density compensation suggests interspecific competition is weak among terrestrial snails in tabonuco forest of Puerto Rico. <i>Caribbean Journal of Science</i> , 2010, 46, 159-168.	0.2	6
58	Relationship Between Aboveground Biomass and Multiple Measures of Biodiversity in Subtropical Forest of Puerto Rico. <i>Biotropica</i> , 2010, 42, 290-299.	0.8	45
59	Seasonal differences in population-, ensemble- and community-level responses of bats to landscape structure in Amazonia. <i>Oikos</i> , 2010, 119, 1654-1664.	1.2	55
60	A comprehensive framework for the evaluation of metacommunity structure. <i>Oikos</i> , 2010, 119, 908-917.	1.2	259
61	Bat metacommunity structure on Caribbean islands and the role of endemics. <i>Global Ecology and Biogeography</i> , 2010, 19, 185-199.	2.7	64
62	Assessment of assemblage-wide temporal niche segregation using null models. <i>Methods in Ecology and Evolution</i> , 2010, 1, 311-318.	2.2	61
63	The relationship between productivity and multiple aspects of biodiversity in six grassland communities. <i>Biodiversity and Conservation</i> , 2009, 18, 91-104.	1.2	37
64	Guild-specific responses of bats to landscape composition and configuration in fragmented Amazonian rainforest. <i>Journal of Applied Ecology</i> , 2009, 46, 203-213.	1.9	127
65	Reduced-impact Logging has Little Effect on Temporal Activity of Frugivorous Bats (Chiroptera) in Lowland Amazonia. <i>Biotropica</i> , 2009, 41, 369-378.	0.8	16
66	Effects of Habitat Conversion on Temporal Activity Patterns of Phyllostomid Bats in Lowland Amazonian Rain Forest. <i>Journal of Mammalogy</i> , 2009, 90, 210-221.	0.6	159
67	Effects of reduced-impact logging and forest physiognomy on bat populations of lowland Amazonian forest. <i>Journal of Applied Ecology</i> , 2008, 45, 14-25.	1.9	46
68	A general theory of ecology. <i>Theoretical Ecology</i> , 2008, 1, 21-28.	0.4	114
69	Composition and structure of Caribbean bat (<i>Chiroptera</i>) assemblages: effects of inter-island distance, area, elevation and hurricane-induced disturbance. <i>Global Ecology and Biogeography</i> , 2008, 17, 747-757.	2.7	15
70	Intraspecific patterns of ectoparasite abundances on Paraguayan bats: effects of host sex and body size. <i>Journal of Tropical Ecology</i> , 2008, 24, 75-83.	0.5	43
71	Effects of reduced impact logging on bat biodiversity in terra firme forest of lowland Amazonia. <i>Biological Conservation</i> , 2007, 138, 269-285.	1.9	48
72	Effects of large-scale disturbance on metacommunity structure of terrestrial gastropods: temporal trends in nestedness. <i>Oikos</i> , 2007, 116, 395-406.	1.2	80

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73	Phyllostomid Bats of Lowland Amazonia: Effects of Habitat Alteration on Abundance. <i>Biotropica</i> , 2007, 39, 737-746.	0.8	115
74	Colonisation of <i>Heliconia caribaea</i> by aquatic invertebrates: resource and microsite characteristics. <i>Ecological Entomology</i> , 2007, 32, 603-612.	1.1	14
75	Cross-Scale Responses of Biodiversity to Hurricane and Anthropogenic Disturbance in a Tropical Forest. <i>Ecosystems</i> , 2007, 10, 824-838.	1.6	46
76	Context-dependence of long-term responses of terrestrial gastropod populations to large-scale disturbance. <i>Journal of Tropical Ecology</i> , 2006, 22, 111-122.	0.5	28
77	Short-Term Responses of Birds to Forest Gaps and Understory: An Assessment of Reduced-Impact Logging in a Lowland Amazon Forest1. <i>Biotropica</i> , 2006, 38, 235-255.	0.8	54
78	Developing Unified Theories in Ecology as Exemplified with Diversity Gradients. <i>American Naturalist</i> , 2005, 166, 458-469.	1.0	73
79	RELATIONSHIPS AMONG INDICES SUGGEST THAT RICHNESS IS AN INCOMPLETE SURROGATE FOR GRASSLAND BIODIVERSITY. <i>Ecology</i> , 2005, 86, 1178-1184.	1.5	231
80	MULTIVARIATE ANALYSIS OF SCALE-DEPENDENT ASSOCIATIONS BETWEEN BATS AND LANDSCAPE STRUCTURE. , 2005, 15, 2126-2136.		86
81	SCALE DEPENDENCE IN THE SPECIES-RICHNESS-PRODUCTIVITY RELATIONSHIP: THE ROLE OF SPECIES TURNOVER. <i>Ecology</i> , 2004, 85, 2701-2708.	1.5	107
82	LANDSCAPE RESPONSES OF BATS TO HABITAT FRAGMENTATION IN ATLANTIC FOREST OF PARAGUAY. <i>Journal of Mammalogy</i> , 2004, 85, 688-697.	0.6	186
83	Present patterns and future prospects for biodiversity in the Western Hemisphere. <i>Ecology Letters</i> , 2003, 6, 818-824.	3.0	58
84	Patterns of functional diversity across an extensive environmental gradient: vertebrate consumers, hidden treatments and latitudinal trends. <i>Ecology Letters</i> , 2003, 6, 1099-1108.	3.0	162
85	SPECIES RICHNESS, LATITUDE, AND SCALE-SENSITIVITY. <i>Ecology</i> , 2002, 83, 47-58.	1.5	96
86	GEOGRAPHICAL ECOLOGY AT THE COMMUNITY LEVEL: PERSPECTIVES ON THE DIVERSITY OF NEW WORLD BATS. <i>Ecology</i> , 2002, 83, 545-560.	1.5	134
87	Alternative Configurations of Conservation Reserves for Paraguayan Bats: Considerations of Spatial Scale. <i>Conservation Biology</i> , 2002, 16, 1352-1363.	2.4	60
88	Geographical Ecology at the Community Level: Perspectives on the Diversity of New World Bats. <i>Ecology</i> , 2002, 83, 545.	1.5	1
89	Species Richness, Latitude, and Scale-Sensitivity. <i>Ecology</i> , 2002, 83, 47.	1.5	4
90	WHAT IS THE OBSERVED RELATIONSHIP BETWEEN SPECIES RICHNESS AND PRODUCTIVITY?. <i>Ecology</i> , 2001, 82, 2381-2396.	1.5	1,260

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91	WHAT IS THE OBSERVED RELATIONSHIP BETWEEN SPECIES RICHNESS AND PRODUCTIVITY?. , 2001, 82, 2381.		59
92	Density compensation in New World bat communities. <i>Oikos</i> , 2000, 89, 367-377.	1.2	35
93	A HEMISPHERIC ASSESSMENT OF SCALE DEPENDENCE IN LATITUDINAL GRADIENTS OF SPECIES RICHNESS. <i>Ecology</i> , 1999, 80, 2483-2491.	1.5	90
94	Latitudinal patterns of mammalian species richness in the New World: the effects of sampling method and faunal group. <i>Journal of Biogeography</i> , 1998, 25, 795-805.	1.4	76
95	Introduction: Disturbance and Caribbean Ecosystems. <i>Biotropica</i> , 1996, 28, 414.	0.8	122
96	Secondary Sexual Dimorphism and Phylogenetic Constraints in Bats: A Multivariate Approach. <i>Journal of Mammalogy</i> , 1995, 76, 981-992.	0.6	35
97	Effects of Age, Sex, Prior Experience, and Intraspecific Food Variation on Diet Composition of a Tropical Folivore (Phasmatodea: Phasmatidae). <i>Environmental Entomology</i> , 1993, 22, 625-633.	0.7	28
98	Effects of Treefall Gaps on the Density of Land Snails in the Luquillo Experimental Forest of Puerto Rico. <i>Biotropica</i> , 1993, 25, 100.	0.8	32
99	Structural and Taxonomic Components of Habitat Selection in the Neotropical Folivore <i>Lamponius portoricensis</i> (Phasmatodea: Phasmatidae). <i>Environmental Entomology</i> , 1993, 22, 634-641.	0.7	11
100	The Effect of Hurricane Hugo on Six Invertebrate Species in the Luquillo Experimental Forest of Puerto Rico. <i>Biotropica</i> , 1991, 23, 455.	0.8	87
101	Bat Species Density Gradients in the New World: A Statistical Assessment. <i>Journal of Biogeography</i> , 1989, 16, 189.	1.4	81