

John C Maerz

List of Publications by Year in descending order

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113
papers

4,592
citations

117625

34
h-index

114465

63
g-index

115
all docs

115
docs citations

115
times ranked

4857
citing authors

#	ARTICLE	IF	CITATIONS
1	The use of leukocyte profiles to measure stress in vertebrates: a review for ecologists. <i>Functional Ecology</i> , 2008, 22, 760-772.	3.6	1,099
2	Earthworm Invasion as the Driving Force Behind Plant Invasion and Community Change in Northeastern North American Forests. <i>Conservation Biology</i> , 2009, 23, 966-974.	4.7	169
3	Projected Loss of a Salamander Diversity Hotspot as a Consequence of Projected Global Climate Change. <i>PLoS ONE</i> , 2010, 5, e12189.	2.5	135
4	Loss of migratory behaviour increases infection risk for a butterfly host. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20141734.	2.6	129
5	The unseen invaders: introduced earthworms as drivers of change in plant communities in North American forests (a meta-analysis). <i>Global Change Biology</i> , 2017, 23, 1065-1074.	9.5	107
6	Can secondary compounds of an invasive plant affect larval amphibians?. <i>Functional Ecology</i> , 2005, 19, 970-975.	3.6	96
7	The influence of invasive earthworms on indigenous fauna in ecosystems previously uninhabited by earthworms. <i>Biological Invasions</i> , 2006, 8, 1275-1285.	2.4	94
8	Green Frogs Show Reduced Foraging Success in Habitats Invaded by Japanese knotweed. <i>Biodiversity and Conservation</i> , 2005, 14, 2901-2911.	2.6	92
9	Declines in Woodland Salamander Abundance Associated with Non-Native Earthworm and Plant Invasions. <i>Conservation Biology</i> , 2009, 23, 975-981.	4.7	87
10	Grass invasion of a hardwood forest is associated with declines in belowground carbon pools. <i>Global Change Biology</i> , 2010, 16, 1338-1350.	9.5	81
11	Introduced invertebrates are important prey for a generalist predator. <i>Diversity and Distributions</i> , 2005, 11, 83-90.	4.1	72
12	Invasive Plant and Experimental Venue Affect Tadpole Performance. <i>Biological Invasions</i> , 2006, 8, 327-338.	2.4	72
13	Earthworm effects on the incorporation of litter C and N into soil organic matter in a sugar maple forest. <i>Ecological Applications</i> , 2013, 23, 1185-1201.	3.8	72
14	Earthworms increase soil microbial biomass carrying capacity and nitrogen retention in northern hardwood forests. <i>Soil Biology and Biochemistry</i> , 2015, 87, 51-58.	8.8	71
15	Transport of Carbon and Nitrogen Between Litter and Soil Organic Matter in a Northern Hardwood Forest. <i>Ecosystems</i> , 2011, 14, 326-340.	3.4	69
16	Traits, not origin, explain impacts of plants on larval amphibians. <i>Ecological Applications</i> , 2012, 22, 218-228.	3.8	63
17	Effects of predator chemical cues and behavioral biorhythms on foraging activity of terrestrial salamanders. <i>Journal of Chemical Ecology</i> , 2001, 27, 1333-1344.	1.8	61
18	Low-to-moderate nitrogen and phosphorus concentrations accelerate microbially driven litter breakdown rates. <i>Ecological Applications</i> , 2015, 25, 856-865.	3.8	60

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19	Side-effects: ecological cascades emanating from earthworm invasions. <i>Frontiers in Ecology and the Environment</i> , 2019, 17, 502-510.	4.0	60
20	Detrital stoichiometry as a critical nexus for the effects of streamwater nutrients on leaf litter breakdown rates. <i>Ecology</i> , 2015, 96, 2214-2224.	3.2	59
21	Exploring carbon flow through the root channel in a temperate forest soil food web. <i>Soil Biology and Biochemistry</i> , 2014, 76, 45-52.	8.8	54
22	Optimization of Predator Avoidance by Salamanders Using Chemical Cues: Diet and Diel Effects. <i>Ethology</i> , 1999, 105, 1073-1086.	1.1	52
23	Migratory monarchs wintering in California experience low infection risk compared to monarchs breeding year-round on non-native milkweed. <i>Integrative and Comparative Biology</i> , 2016, 56, 343-352.	2.0	49
24	Discovery of a Novel Alveolate Pathogen Affecting Southern Leopard Frogs in Georgia: Description of the Disease and Host Effects. <i>EcoHealth</i> , 2007, 4, 310-317.	2.0	48
25	Comparison of Hematological Stress Indicators in Recently Captured and Captive Paedomorphic Mole Salamanders, <i>Ambystoma talpoideum</i> . <i>Copeia</i> , 2008, 2008, 613-617.	1.3	48
26	Migratory monarchs that encounter resident monarchs show life-history differences and higher rates of parasite infection. <i>Ecology Letters</i> , 2018, 21, 1670-1680.	6.4	48
27	Does detritus quality predict the effect of native and non-native plants on the performance of larval amphibians?. <i>Freshwater Biology</i> , 2010, 55, 1694-1704.	2.4	47
28	Possible Role of Fish and Frogs as Paratenic Hosts of <i>Dracunculus medinensis</i> , Chad. <i>Emerging Infectious Diseases</i> , 2016, 22, 1428-1430.	4.3	46
29	Anti-predator response of red-backed salamanders (<i>Plethodon cinereus</i>) to chemical cues from garter snakes (<i>Thamnophis sirtalis</i>): laboratory and field experiments. <i>Behavioral Ecology and Sociobiology</i> , 2002, 51, 227-233.	1.4	45
30	Using occupancy models of forest breeding birds to prioritize conservation planning. <i>Biological Conservation</i> , 2009, 142, 982-991.	4.1	39
31	Convergence of detrital stoichiometry predicts thresholds of nutrient-stimulated breakdown in streams. <i>Ecological Applications</i> , 2016, 26, 1745-1757.	3.8	39
32	Using Parasitic Trematode Larvae to Quantify an Elusive Vertebrate Host. <i>Conservation Biology</i> , 2011, 25, 85-93.	4.7	38
33	Estimating the consequences of multiple threats and management strategies for semi-aquatic turtles. <i>Journal of Applied Ecology</i> , 2014, 51, 359-366.	4.0	38
34	Sex-Related Differences in Hematological Stress Indices of Breeding Paedomorphic Mole Salamanders. <i>Journal of Herpetology</i> , 2008, 42, 197-201.	0.5	37
35	Grass invasion increases top-down pressure on an amphibian via structurally mediated effects on an intraguild predator. <i>Ecology</i> , 2014, 95, 1724-1730.	3.2	36
36	Effects of chytridiomycosis on circulating white blood cell distributions of bullfrog larvae (<i>Rana</i>). <i>Journal of Herpetology</i> , 2010, 44, 107-115.	0.7	35

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37	Metabolic turnover rates of carbon and nitrogen stable isotopes in captive juvenile snakes. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 319-326.	1.5	34
38	Root carbon flow from an invasive plant to belowground foodwebs. <i>Plant and Soil</i> , 2012, 359, 233-244.	3.7	34
39	Earthworms, litter and soil carbon in a northern hardwood forest. <i>Biogeochemistry</i> , 2013, 114, 269-280.	3.5	34
40	Litter P content drives consumer production in detritus-based streams spanning an experimental N:P gradient. <i>Ecology</i> , 2018, 99, 347-359.	3.2	34
41	Diverse aging rates in ectothermic tetrapods provide insights for the evolution of aging and longevity. <i>Science</i> , 2022, 376, 1459-1466.	12.6	34
42	Hot spots and hot moments of diamondback terrapin road-crossing activity. <i>Journal of Applied Ecology</i> , 2014, 51, 367-375.	4.0	31
43	Identifying Priority Species and Conservation Opportunities Under Future Climate Scenarios: Amphibians in a Biodiversity Hotspot. <i>Journal of Fish and Wildlife Management</i> , 2014, 5, 282-297.	0.9	29
44	Premigratory Autumn Foraging Forays in the Green Frog, <i>Rana clamitans</i> . <i>Journal of Herpetology</i> , 2002, 36, 245-254.	0.5	28
45	A complex, cross-taxon, chemical releaser of antipredator behavior in amphibians. <i>Journal of Chemical Ecology</i> , 2002, 28, 2271-2282.	1.8	26
46	A global database of nitrogen and phosphorus excretion rates of aquatic animals. <i>Ecology</i> , 2017, 98, 1475-1475.	3.2	26
47	Patterns of Development and Abnormalities among Tadpoles in a Constructed Wetland Receiving Treated Wastewater. <i>Environmental Science & Technology</i> , 2010, 44, 4862-4868.	10.0	25
48	Experimental nutrient enrichment of forest streams increases energy flow to predators along greener foodweb pathways. <i>Freshwater Biology</i> , 2017, 62, 1794-1805.	2.4	25
49	Diamondback Terrapin Mortality in Crab Pots in a Georgia Tidal Marsh. <i>Chelonian Conservation and Biology</i> , 2009, 8, 98-100.	0.6	24
50	A new genus and species of lungless salamander (family Plethodontidae) from the Appalachian highlands of the southeastern United States. <i>Journal of Zoology</i> , 2009, 279, 86-94.	1.7	24
51	Estimation of Larval Stream Salamander Densities in Three Proximate Streams in the Georgia Piedmont. <i>Journal of Herpetology</i> , 2009, 43, 503-509.	0.5	24
52	Loss of faster-cycling soil carbon pools following grass invasion across multiple forest sites. <i>Soil Biology and Biochemistry</i> , 2011, 43, 452-454.	8.8	24
53	Spot symmetry predicts body condition in spotted salamanders, <i>Ambystoma maculatum</i> . <i>Applied Herpetology</i> , 2007, 4, 195-205.	0.5	23
54	Effects of roads and crabbing pressures on diamondback terrapin populations in coastal Georgia. <i>Journal of Wildlife Management</i> , 2011, 75, 762-770.	1.8	23

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55	Effects of larval density on hematological stress indices in salamanders. <i>Journal of Experimental Zoology</i> , 2009, 311A, 697-704.	1.2	22
56	Assessing Stress Levels of Captive-Reared Amphibians with Hematological Data: Implications for Conservation Initiatives. <i>Journal of Herpetology</i> , 2011, 45, 40-44.	0.5	22
57	Riparian disturbance restricts in-stream movement of salamanders. <i>Freshwater Biology</i> , 2014, 59, 2354-2364.	2.4	22
58	Native, insect herbivore communities derive a significant proportion of their carbon from a widespread invader of forest understories. <i>Biological Invasions</i> , 2010, 12, 721-724.	2.4	21
59	Effects of Exogenous Corticosterone on Circulating Leukocytes of a Salamander (<i>Ambystoma</i>) Tj ETQq1 1 0.784314 rgBT /Overload 1-8.	0.8	21
60	Stoichiometry and estimates of nutrient standing stocks of larval salamanders in Appalachian headwater streams. <i>Freshwater Biology</i> , 2015, 60, 1340-1353.	2.4	21
61	Environmental Variation and Territorial Behavior in a Terrestrial Salamander. , 2000, , 395-406.		20
62	Expert-Informed Habitat Suitability Analysis for At-Risk Species Assessment and Conservation Planning. <i>Journal of Fish and Wildlife Management</i> , 2020, 11, 130-150.	0.9	20
63	The conservation implications of riparian land use on river turtles. <i>Animal Conservation</i> , 2011, 14, 38-46.	2.9	19
64	Detection of an Enigmatic Plethodontid Salamander Using Environmental DNA. <i>Copeia</i> , 2016, 104, 78-82.	1.3	19
65	Integrating Ecophysiological and Agent-Based Models to Simulate How Behavior Moderates Salamander Sensitivity to Climate. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, .	2.2	19
66	What can turtles teach us about the theory of ecological stoichiometry?. <i>Freshwater Biology</i> , 2015, 60, 443-455.	2.4	18
67	When Drivers and Terrapins Collide: Assessing Stakeholder Attitudes Toward Wildlife Management on the Jekyll Island Causeway. <i>Human Dimensions of Wildlife</i> , 2015, 20, 1-14.	1.8	17
68	An alternative hypothesis for the primary function of a proposed mate assessment behaviour in red-backed salamanders. <i>Animal Behaviour</i> , 2004, 68, 489-494.	1.9	16
69	Invasion by Exotic Earthworms Alters Biodiversity and Communities of Litter- and Soil-dwelling Oribatid Mites. <i>Diversity</i> , 2011, 3, 155-175.	1.7	16
70	An Overlooked Hotspot? Rapid Biodiversity Assessment Reveals a Region of Exceptional Herpetofaunal Richness in the Southeastern United States. <i>Southeastern Naturalist</i> , 2010, 9, 19-34.	0.4	15
71	Integrated analysis for population estimation, management impact evaluation, and decision-making for a declining species. <i>Biological Conservation</i> , 2018, 222, 33-43.	4.1	15
72	Multiple drivers, scales, and interactions influence southern Appalachian stream salamander occupancy. <i>Ecosphere</i> , 2018, 9, e02150.	2.2	15

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73	Experimental N and P additions alter stream macroinvertebrate community composition via taxon-level responses to shifts in detrital resource stoichiometry. <i>Functional Ecology</i> , 2019, 33, 855-867.	3.6	15
74	Beyond the urban gradient: barriers and opportunities for timely studies of urbanization effects on aquatic ecosystems. <i>Journal of the North American Benthological Society</i> , 2009, 28, 1038-1050.	3.1	14
75	Salamander growth rates increase along an experimental stream phosphorus gradient. <i>Ecology</i> , 2015, 96, 2994-3004.	3.2	13
76	New Findings from an Old Pathogen: Intraerythrocytic Bacteria (Family Anaplasmataceae) in Red-Backed Salamanders <i>Plethodon cinereus</i> . <i>EcoHealth</i> , 2009, 6, 219-228.	2.0	12
77	Estimating population persistence for at-risk species using citizen science data. <i>Biological Conservation</i> , 2020, 243, 108489.	4.1	12
78	An investigation of factors influencing erythrocyte morphology of red-backed salamanders (<i>Plethodon cinereus</i>). <i>Animal Biology</i> , 2009, 59, 201-209.	1.0	11
79	Patch occupancy of stream fauna across a land cover gradient in the southern Appalachians, USA. <i>Hydrobiologia</i> , 2016, 773, 163-175.	2.0	10
80	CLINICAL CHALLENGE. <i>Journal of Zoo and Wildlife Medicine</i> , 2006, 37, 571-573.	0.6	9
81	Spatial Ecology of Female Barbour's Map Turtles (<i>Graptemys barbouri</i>) in Ichawaynochaway Creek, Georgia. <i>Copeia</i> , 2015, 103, 263-271.	1.3	9
82	Experimental confirmation of effects of leaf litter type and light on tadpole performance for two priority amphibians. <i>Ecosphere</i> , 2021, 12, e03729.	2.2	9
83	Experimental Feeding of <i>Hydrilla verticillata</i> Colonized by Stigonematales Cyanobacteria Induces Vacuolar Myelinopathy in Painted Turtles (<i>Chrysemys picta</i>). <i>PLoS ONE</i> , 2014, 9, e93295.	2.5	9
84	Effects of Vegetation Structure and Artificial Nesting Habitats on Hatchling Sex Determination and Nest Survival of Diamondback Terrapins. <i>Journal of Fish and Wildlife Management</i> , 2015, 6, 19-28.	0.9	9
85	Detecting Enigmatic Declines of a Once Common Salamander in the Coastal Plain of Georgia. <i>Southeastern Naturalist</i> , 2015, 14, 771-784.	0.4	8
86	Diet composition of two larval headwater stream salamanders and spatial distribution of prey. <i>Freshwater Biology</i> , 2015, 60, 2424-2434.	2.4	8
87	Context-dependent responses to light contribute to responses by Black-bellied Salamanders (<i>Desmognathus quadramaculatus</i>) to landscape disturbances. <i>Canadian Journal of Zoology</i> , 2016, 94, 7-13.	1.0	8
88	Habitat predictors of genetic diversity for two sympatric wetland-breeding amphibian species. <i>Ecology and Evolution</i> , 2017, 7, 6271-6283.	1.9	8
89	Predicted alteration of surface activity as a consequence of climate change. <i>Ecology</i> , 2020, 101, e03154.	3.2	8
90	Experimental N and P additions relieve stoichiometric constraints on organic matter flows through five stream food webs. <i>Journal of Animal Ecology</i> , 2020, 89, 1468-1481.	2.8	8

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91	How plants affect amphibian populations. <i>Biological Reviews</i> , 2022, 97, 1749-1767.	10.4	8
92	Seasonal and plant specific vulnerability of amphibian tadpoles to the invasion of a novel cyanobacteria. <i>Biological Invasions</i> , 2019, 21, 821-831.	2.4	7
93	Effects of Salinity on Hatchling Diamond-Backed Terrapin (<i>Malaclemys terrapin</i>) Growth, Behavior, and Stress Physiology. <i>Herpetologica</i> , 2021, 77, 45-55.	0.4	7
94	Lizard Activity and Abundance Greater in Burned Habitat of a Xeric Montane Forest. <i>Journal of Fish and Wildlife Management</i> , 2017, 8, 181-192.	0.9	7
95	Sex-related differences in aging rate are associated with sex chromosome system in amphibians. <i>Evolution; International Journal of Organic Evolution</i> , 2022, 76, 346-356.	2.3	7
96	Nocturnal shift in the antipredator response to predator-diet cues in laboratory and field trials. , 2005, , 349-356.		6
97	Amphibian use of man-made pools on clear-cuts in the Allegheny Mountains of West Virginia, USA. <i>Applied Herpetology</i> , 2008, 5, 121-128.	0.5	6
98	Effects of Turbidity on the Foraging Success of the Eastern Painted Turtle. <i>Copeia</i> , 2010, 2010, 463-467.	1.3	6
99	Realistic Fasting Does Not Affect Stable Isotope Levels of a Metabolically Efficient Salamander. <i>Journal of Herpetology</i> , 2013, 47, 544-548.	0.5	6
100	Evaporative Water Loss Rates of Four Species of Aquatic Turtles from the Coastal Plain of the Southeastern United States. <i>Journal of Herpetology</i> , 2016, 50, 457-463.	0.5	6
101	Ground cover and native ant predation influence survival of metamorphic amphibians in a southeastern pine savanna undergoing restoration. <i>Restoration Ecology</i> , 2021, 29, e13410.	2.9	6
102	Effect of Trapping Method on Leukocyte Profiles of Black-Chested Spiny-Tailed Iguanas (<i>Ctenosaura</i>) Tj ETQqO 0 0 rgBT /Overlock 10 Tf s	0.5	6
103	Population viability analysis for a pond-breeding amphibian under future drought scenarios in the southeastern United States. <i>Global Ecology and Conservation</i> , 2022, 36, e02119.	2.1	6
104	Tracing carbon flow through a sugar maple forest and its soil components: role of invasive earthworms. <i>Plant and Soil</i> , 2021, 464, 517-537.	3.7	5
105	Soft-Tissue Mineralization of Bullfrog Larvae (<i>Rana Catesbeiana</i>) at a Wastewater Treatment Facility. <i>Journal of Veterinary Diagnostic Investigation</i> , 2010, 22, 655-660.	1.1	4
106	Color perception influences microhabitat selection of refugia and affects monitoring success for a cryptic anuran species. <i>Physiology and Behavior</i> , 2016, 164, 54-57.	2.1	4
107	Decline in avoidance of predator chemical cues: Habituation or biorhythm shift?. , 2005, , 365-372.		3
108	Variable infection of stream salamanders in the southern Appalachians by the trematode <i>Metagonimoides oregonensis</i> (family: Heterophyidae). <i>Parasitology Research</i> , 2015, 114, 3159-3165.	1.6	3

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109	Density-Dependent Fitness Attributes and Carry-Over Effects in Crawfish Frogs (<i>Rana areolata</i>), a Species of Conservation Concern. <i>Copeia</i> , 2020, 108, 443.	1.3	2
110	Gopher tortoise (<i>Gopherus polyphemus</i>) resource selection within a private working pine (<i>Pinus</i> spp.) forest landscape. <i>Forest Ecology and Management</i> , 2022, 510, 120112.	3.2	1
111	Breeding Dynamics of Gopher Frog Metapopulations Over 10 Years. <i>Journal of Fish and Wildlife Management</i> , 2022, 13, 422-436.	0.9	1
112	Natural Behavior. , 2019, , 90-99.e4.		0
113	The influence of invasive earthworms on indigenous fauna in ecosystems previously uninhabited by earthworms. , 2006, , 75-85.		0