

Matthew L Niemiller

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

2,032
citations

361045

20
h-index

288905

40
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82
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82
docs citations

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times ranked

2419
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent divergence with gene flow in Tennessee cave salamanders (Plethodontidae: <i>Gyrinophilus</i>) inferred from gene genealogies. <i>Molecular Ecology</i> , 2008, 17, 2258-2275.	2.0	218
2	Scientists' Warning on the Conservation of Subterranean Ecosystems. <i>BioScience</i> , 2019, 69, 641-650.	2.2	170
3	DELIMITING SPECIES USING MULTILOCUS DATA: DIAGNOSING CRYPTIC DIVERSITY IN THE SOUTHERN CAVEFISH, <i>TYPHLICHTHYS SUBTERRANEUS</i> (TELEOSTEI: AMBLYOPSIDAE). <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 846-866.	1.1	143
4	What can DNA tell us about biological invasions?. <i>Biological Invasions</i> , 2012, 14, 245-253.	1.2	133
5	Toward a Tree-of-Life for the boas and pythons: Multilocus species-level phylogeny with unprecedented taxon sampling. <i>Molecular Phylogenetics and Evolution</i> , 2014, 71, 201-213.	1.2	104
6	Sensory Adaptations of Fishes to Subterranean Environments. <i>BioScience</i> , 2013, 63, 274-283.	2.2	90
7	Fundamental research questions in subterranean biology. <i>Biological Reviews</i> , 2020, 95, 1855-1872.	4.7	86
8	EVIDENCE FOR REPEATED LOSS OF SELECTIVE CONSTRAINT IN RHODOPSIN OF AMBLYOPSID CAVEFISHES (TELEOSTEI: AMBLYOPSIDAE). <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 732-748.	1.1	82
9	Patterns of Cave Biodiversity and Endemism in the Appalachians and Interior Plateau of Tennessee, USA. <i>PLoS ONE</i> , 2013, 8, e64177.	1.1	66
10	Doomed before they are described? The need for conservation assessments of cryptic species complexes using an amblyopsid cavefish (Amblyopsidae: Typhlichthys) as a case study. <i>Biodiversity and Conservation</i> , 2013, 22, 1799-1820.	1.2	58
11	Evaluation of eDNA for groundwater invertebrate detection and monitoring: a case study with endangered <i>Stygobromus</i> (Amphipoda: Crangonyctidae). <i>Conservation Genetics Resources</i> , 2018, 10, 247-257.	0.4	55
12	History, geography and host use shape genomewide patterns of genetic variation in the redheaded pine sawfly (<i>Neodiprion lecontei</i>). <i>Molecular Ecology</i> , 2017, 26, 1022-1044.	2.0	46
13	Distinctiveness in the face of gene flow: hybridization between specialist and generalist gartersnakes. <i>Molecular Ecology</i> , 2008, 17, 4107-4117.	2.0	42
14	Molecular phylogeny and historical biogeography of West Indian boid snakes (<i>Chilabothrus</i>). <i>Molecular Phylogenetics and Evolution</i> , 2013, 68, 461-470.	1.2	39
15	Predicting the Occurrence of Cave-Inhabiting Fauna Based on Features of the Earth Surface Environment. <i>PLoS ONE</i> , 2016, 11, e0160408.	1.1	39
16	Towards evidence-based conservation of subterranean ecosystems. <i>Biological Reviews</i> , 2022, 97, 1476-1510.	4.7	39
17	EFFECTS OF CLIMATIC AND GEOLOGICAL PROCESSES DURING THE PLEISTOCENE ON THE EVOLUTIONARY HISTORY OF THE NORTHERN CAVEFISH, <i>AMBLYOPSIS SPELAEA</i> (TELEOSTEI: AMBLYOPSIDAE). <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 1011-1025.	1.1	33
18	Patterns, Mechanisms and Genetics of Speciation in Reptiles and Amphibians. <i>Genes</i> , 2019, 10, 646.	1.0	33

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19	Extreme Adaptation in Caves. <i>Anatomical Record</i> , 2020, 303, 15-23.	0.8	33
20	Subterranean Fishes of North America. , 2010, , 169-280.		33
21	A conservation roadmap for the subterranean biome. <i>Conservation Letters</i> , 2021, 14, e12834.	2.8	31
22	Ecological specialization and morphological diversification in Greater Antillean boas. <i>Evolution; International Journal of Organic Evolution</i> , 2016, 70, 1882-1895.	1.1	24
23	Size-Specific Habitat Segregation and Intraspecific Interactions in Banded Sculpin (<i>Cottus carolinae</i>). <i>Southeastern Naturalist</i> , 2005, 4, 207-218.	0.2	21
24	Evidence for hearing loss in amblyopsid cavefishes. <i>Biology Letters</i> , 2013, 9, 20130104.	1.0	19
25	Probability of regenerating a normal limb after bite injury in the Mexican axolotl (<i>Ambystoma</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 19	6.3	19
26	Can genetic data confirm or refute historical records? The island invasion of the small Indian mongoose (<i>Herpestes auropunctatus</i>). <i>Biological Invasions</i> , 2013, 15, 2243-2251.	1.2	18
27	Evaluation of environmental DNA to detect <i>Sistrurus catenatus</i> and <i>Ophidiomyces ophiodiicola</i> in crayfish burrows. <i>Conservation Genetics Resources</i> , 2020, 12, 13-15.	0.4	18
28	Conservation of Cave Fauna, with an Emphasis on Europe and the Americas. <i>Ecological Studies</i> , 2018, , 451-478.	0.4	17
29	Cave Environments. , 2015, , 161-191.		17
30	Using environmental DNA methods to survey for rare groundwater fauna: Detection of an endangered endemic cave crayfish in northern Alabama. <i>PLoS ONE</i> , 2020, 15, e0242741.	1.1	17
31	Cavefishes. , 2019, , 227-236.		15
32	Using expert knowledge to support Endangered Species Act decision-making for data-deficient species. <i>Conservation Biology</i> , 2021, 35, 1627-1638.	2.4	15
33	Subterranean freshwater gastropod biodiversity and conservation in the United States and Mexico. <i>Conservation Biology</i> , 2022, 36, .	2.4	15
34	Rediscovery and conservation status of six short-range endemic <i>Pseudanophthalmus</i> cave beetles (Carabidae: Trechini). <i>Insect Conservation and Diversity</i> , 2017, 10, 495-501.	1.4	13
35	Cave-adapted evolution in the North American amblyopsid fishes inferred using phylogenomics and geometric morphometrics. <i>Evolution; International Journal of Organic Evolution</i> , 2020, 74, 936-949.	1.1	13
36	The 30-year recovery effort for the Ozark cavefish (<i>Amblyopsis rosae</i>): Analysis of current distribution, population trends, and conservation status of this threatened species. <i>Environmental Biology of Fishes</i> , 2010, 87, 55-88.	0.4	12

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37	The Hoosier cavefish, a new and endangered species (Amblyopsidae, Amblyopsis) from the caves of southern Indiana. ZooKeys, 2014, 412, 41-57.	0.5	11
38	Preliminary investigation of the critically imperiled Caney Mountain cave crayfish <i>Orconectes stygocaneyi</i> (Hobbs III, 2001) (Decapoda: Cambaridae) in Missouri, USA. Freshwater Crayfish, 2020, 25, 47-57.	0.5	11
39	Departments Can Develop Teaching Identities of Graduate Students. CBE Life Sciences Education, 2013, 12, 316-317.	1.1	10
40	Morphological Evolution of the Cave-, Spring-, and Swampfishes of the Amblyopsidae (Percopsiformes). Copeia, 2016, 104, 763-777.	1.4	10
41	Refining sampling protocols for cavefishes and cave crayfishes to account for environmental variation. Subterranean Biology, 0, 39, 79-105.	5.0	10
42	Morphometrics and phylogeography of the cave-obligate land snail <i>Helicodiscus barri</i> (Gastropoda, Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	5.0	10
43	Mammoth Cave: A Hotspot of Subterranean Biodiversity in the United States. Diversity, 2021, 13, 373.	0.7	9
44	Vertebrate fauna in caves of eastern Tennessee within the Appalachians karst region, USA. Journal of Cave and Karst Studies, 2016, 78, 1-24.	0.3	9
45	Status and Distribution of the Cave-Obligat Land Snails in the Appalachians and Interior Low Plateau of the Eastern United States. American Malacological Bulletin, 2018, 36, 62-78.	0.2	8
46	Biodiversity from caves and other sub-terranean habitats of Georgia, USA. Journal of Cave and Karst Studies, 2020, 82, 125-167.	0.3	8
47	Status and Distribution of the Streamside Salamander, <i>Ambystoma barbouri</i> , in Middle Tennessee. American Midland Naturalist, 2006, 156, 394-399.	0.2	7
48	Growth, Survival, Longevity, and Population Size of the Big Mouth Cave Salamander (<i>Gyrinophilus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 35-41.	1.4	7
49	Biodiversity in the United States and Canada. , 2019, , 163-176.		7
50	Protecting cave life. , 2019, , 822-829.		6
51	Biogeography and conservation assessment of <i>Bactrurus</i> groundwater amphipods (Crangonyctidae) in the central and eastern United States. Subterranean Biology, 0, 17, 1-29.	5.0	6
52	Variation in cephalic neuromasts surface and cave-dwelling fishes of the family amblyopsidae (teleostei: percopsiformes). Journal of Cave and Karst Studies, 2020, 82, 198-209.	0.3	6
53	Notes on the Reproduction of the Streamside Salamander, <i>Ambystoma barbouri</i> , from Rutherford County, Tennessee. Southeastern Naturalist, 2009, 8, 37-44.	0.2	5
54	The mitochondrial genomes of five spring and groundwater amphipods of the family Crangonyctidae (Crustacea: Amphipoda) from eastern North America. Mitochondrial DNA Part B: Resources, 2021, 6, 1662-1667.	0.2	5

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55	Salamanders. , 2012, , 665-676.		4
56	Genetic analysis of an endemic archipelagic lizard reveals sympatric cryptic lineages and taxonomic discordance. Conservation Genetics, 2012, 13, 953-963.	0.8	4
57	New Distributional Records of the Stygobitic Crayfish <i>Cambarus cryptodytes</i> (Decapoda:) Tj ETQq1 1 0.784314 rgBT /Overlock 16, 163-181.	0.2	4
58	Salamanders. , 2019, , 871-884.		4
59	First definitive record of a stygobiotic fish (Percopsiformes, Amblyopsidae, Typhlichthys) from the Appalachians karst region in the eastern United States. Subterranean Biology, 0, 20, 39-50.	5.0	4
60	Evolution of coprophagy and nutrient absorption in a Cave Salamander. Subterranean Biology, 0, 24, 1-9.	5.0	4
61	Discovery of a new population of the federally endangered Alabama Cave Shrimp, <i>Palaemonias alabamiae</i> Smalley, 1961, in northern Alabama. Subterranean Biology, 0, 32, 43-59.	5.0	4
62	Helping Graduate Teaching Assistants in Biology Use Student Evaluations as Professional Development. American Biology Teacher, 2014, 76, 584-588.	0.1	3
63	Hearing in Cavefishes. Advances in Experimental Medicine and Biology, 2016, 877, 187-195.	0.8	3
64	A new species of stygobitic snail in the genus <i>Antrorbis</i> Hershler & Thompson, 1990 (Gastropoda, Cochliopidae) from the Appalachian Valley and Ridge of eastern Tennessee, USA. ZooKeys, 2019, 898, 103-120.	0.5	3
65	<i>Bothriocephalus</i> sp. (Cestoidea: Bothriocephalidae) from the Georgia Blind Salamander, <i>Eurycea wallacei</i> (Caudata: Plethodontidae), in Georgia, U.S.A.: First Definitive Report of a Parasite from This Host. Comparative Parasitology, 2013, 80, 308-311.	0.0	2
66	Speciation with gene flow in a narrow endemic West Virginia cave salamander (<i>Gyrinophilus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302	0.8	2
67	Co-occurrence and Hybridization between <i>Necturus maculosus</i> and a Heretofore Unknown <i>Necturus</i> in the Southern Appalachians. Journal of Herpetology, 2017, 51, 559.	0.2	1
68	Discovery of the Blue Ridge Springsnail, <i>Fontigens orolibas</i> , Hubricht, 1957 (Gastropoda: Emmericiidae) in East Tennessee and Its Conservation Implications. Freshwater Mollusk Biology and Conservation, 2021, 24, .	0.4	1
69	Distribution and conservation status of <i>Speleonycta ozarkensis</i> (Insecta, Zygentoma, Nicoletiidae) from caves of the Ozark Highlands of Arkansas and Oklahoma, USA. Subterranean Biology, 0, 14, 51-62.	5.0	1
70	Hearing and Acoustic Communication in Cavefishes. Ambient Science, 2014, 1, 1-6.	0.1	1
71	A new maximum body size record for the Berry Cave Salamander (<i>Gyrinophilus gulolineatus</i>) and genus <i>Gyrinophilus</i> (Caudata, Plethodontidae) with a comment on body size in plethodontid salamanders. Subterranean Biology, 0, 28, 29-38.	5.0	1
72	Rediscovery and phylogenetic analysis of the Shelta Cave Crayfish (<i>Orconectes sheltae</i> Cooper) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Alabama, USA. Subterranean Biology, 0, 43, 11-31.	5.0	1

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73	POPULATION GENOMICS OF THE SOUTHERN CAVEFISH (TYPHLICHTHYS SUBTERRANEUS)., 2018, , .		0
74	Unraveling the eastern North American Hesperochernes (Pseudoscorpiones, Chernetidae) species complex. ARPHA Conference Abstracts, 0, 1, .	0.0	0
75	Mitochondrial DNA and Population Genomics Reveal Additional Cryptic Diversity in the Green Salamander (Subgenus Castaneides) Species Complex. Frontiers in Conservation Science, 2022, 3, .	0.9	0