

# Naomi E Pierce

## List of Publications by Year in descending order

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93  
papers

4,769  
citations

117625

34  
h-index

114465

63  
g-index

104  
all docs

104  
docs citations

104  
times ranked

5393  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Ecology and Evolution of Ant Association in the Lycaenidae (Lepidoptera). <i>Annual Review of Entomology</i> , 2002, 47, 733-771.	11.8	406
2	Bacterial gut symbionts are tightly linked with the evolution of herbivory in ants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 21236-21241.	7.1	318
3	Stability and phylogenetic correlation in gut microbiota: lessons from ants and apes. <i>Molecular Ecology</i> , 2014, 23, 1268-1283.	3.9	276
4	A Comprehensive and Dated Phylogenomic Analysis of Butterflies. <i>Current Biology</i> , 2018, 28, 770-778.e5.	3.9	249
5	Synergistic effects of combining morphological and molecular data in resolving the phylogeny of butterflies and skippers. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 1577-1586.	2.6	228
6	CODIVERSIFICATION IN AN ANT-PLANT MUTUALISM: STEM TEXTURE AND THE EVOLUTION OF HOST USE IN CREMATOGASTER (FORMICIDAE: MYRMICINAE) INHABITANTS OF MACARANGA (EUPHORBIACEAE). <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 554-570.	2.3	217
7	Neonicotinoid exposure disrupts bumblebee nest behavior, social networks, and thermoregulation. <i>Science</i> , 2018, 362, 683-686.	12.6	178
8	Local people value environmental services provided by forested parks. <i>Biodiversity and Conservation</i> , 2010, 19, 1175-1188.	2.6	146
9	The influence of ants on host plant selection by <i>Jalmenus evagoras</i> , a myrmecophilous lycaenid butterfly. <i>Behavioral Ecology and Sociobiology</i> , 1985, 16, 209-222.	1.4	142
10	Phylogeny, diversification patterns and historical biogeography of euglossine orchid bees (Hymenoptera: Apidae). <i>Biological Journal of the Linnean Society</i> , 0, 100, 552-572.	1.6	120
11	Herbivorous turtle ants obtain essential nutrients from a conserved nitrogen-recycling gut microbiome. <i>Nature Communications</i> , 2018, 9, 964.	12.8	115
12	The TASTY Locus on Chromosome 1 of <i>Arabidopsis</i> Affects Feeding of the Insect Herbivore <i>Trichoplusia ni</i> . <i>Plant Physiology</i> , 2001, 126, 890-898.	4.8	96
13	Physical and behavioral adaptations to prevent overheating of the living wings of butterflies. <i>Nature Communications</i> , 2020, 11, 551.	12.8	95
14	AN EMPIRICAL MODEL OF SPECIES COEXISTENCE IN A SPATIALLY STRUCTURED ENVIRONMENT. <i>Ecology</i> , 2001, 82, 1761-1771.	3.2	89
15	Establishing criteria for higher-level classification using molecular data: the systematics of <i>Polyommatus</i> blue butterflies (Lepidoptera, Lycaenidae). <i>Cladistics</i> , 2013, 29, 166-192.	3.3	84
16	Gut microbiota of dung beetles correspond to dietary specializations of adults and larvae. <i>Molecular Ecology</i> , 2016, 25, 6092-6106.	3.9	79
17	Dramatic Differences in Gut Bacterial Densities Correlate with Diet and Habitat in Rainforest Ants. <i>Integrative and Comparative Biology</i> , 2017, 57, 705-722.	2.0	77
18	Microbial Communities of Lycaenid Butterflies Do Not Correlate with Larval Diet. <i>Frontiers in Microbiology</i> , 2016, 7, 1920.	3.5	75

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19	The draft genome of a socially polymorphic halictid bee, <i>Lasioglossum albipes</i> . <i>Genome Biology</i> , 2013, 14, R142.	9.6	72
20	Ancient Neotropical origin and recent recolonisation: Phylogeny, biogeography and diversification of the Riodinidae (Lepidoptera: Papilionoidea). <i>Molecular Phylogenetics and Evolution</i> , 2015, 93, 296-306.	2.7	72
21	Solitary bees reduce investment in communication compared with their social relatives. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6569-6574.	7.1	67
22	Spatial fidelity of workers predicts collective response to disturbance in a social insect. <i>Nature Communications</i> , 2018, 9, 1201.	12.8	67
23	The genetic basis of a social polymorphism in halictid bees. <i>Nature Communications</i> , 2018, 9, 4338.	12.8	66
24	Revised systematics and higher classification of pierid butterflies (Lepidoptera: Pieridae) based on molecular data. <i>Zoologica Scripta</i> , 2014, 43, 641-650.	1.7	61
25	A Social Parasite Evolved Reproductive Isolation from Its Fungus-Growing Ant Host in Sympatry. <i>Current Biology</i> , 2014, 24, 2047-2052.	3.9	60
26	Rhizosphere-associated <i>Pseudomonas</i> induce systemic resistance to herbivores at the cost of susceptibility to bacterial pathogens. <i>Molecular Ecology</i> , 2018, 27, 1833-1847.	3.9	58
27	Lycaenid Caterpillar Secretions Manipulate Attendant Ant Behavior. <i>Current Biology</i> , 2015, 25, 2260-2264.	3.9	56
28	Convergence of chemical mimicry in a guild of aphid predators. <i>Ecological Entomology</i> , 2006, 31, 41-51.	2.2	51
29	Systematics, biogeography and diversification of the Indo-Australian genus <i>Delias</i> (Lepidoptera: Pieridae): phylogenetic evidence supports an "out-of-Australia" origin. <i>Systematic Entomology</i> , 2007, 32, 2-25.	3.9	51
30	Transitions in social complexity along elevational gradients reveal a combined impact of season length and development time on social evolution. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140627.	2.6	47
31	Anchored phylogenomics illuminates the skipper butterfly tree of life. <i>BMC Evolutionary Biology</i> , 2018, 18, 101.	3.2	47
32	Cloning of the gene encoding honeybee long-wavelength rhodopsin: A new class of insect visual pigments. <i>Gene</i> , 1996, 173, 215-219.	2.2	46
33	How common are dot-like distributions? Taxonomical oversplitting in western European <i>Agrodiaetus</i> (Lepidoptera: Lycaenidae) revealed by chromosomal and molecular markers. <i>Biological Journal of the Linnean Society</i> , 2010, 101, 130-154.	1.6	43
34	Assessing the quality of different ant species as partners of a myrmecophilous butterfly. <i>Oecologia</i> , 2001, 129, 452-460.	2.0	42
35	Convergence in Multispecies Interactions. <i>Trends in Ecology and Evolution</i> , 2016, 31, 269-280.	8.7	39
36	Cross-continental comparisons of butterfly assemblages in tropical rainforests: implications for biological monitoring. <i>Insect Conservation and Diversity</i> , 2013, 6, 223-233.	3.0	36

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37	DNA Barcodes Combined with Multilocus Data of Representative Taxa Can Generate Reliable Higher-Level Phylogenies. <i>Systematic Biology</i> , 2022, 71, 382-395.	5.6	35
38	When caterpillars attack: Biogeography and life history evolution of the Miletinae (Lepidoptera: Tj ETQq0 0 0 rgBT /Overlock_10 Tf 50 7	2.3	34
39	Phylogenetics of moth-like butterflies (Papilionoidea: Hedyliidae) based on a new 13-locus target capture probe set. <i>Molecular Phylogenetics and Evolution</i> , 2018, 127, 600-605.	2.7	33
40	The evolution of red color vision is linked to coordinated rhodopsin tuning in lycaenid butterflies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	30
41	Convergence between the microcosms of Southeast Asian and North American pitcher plants. <i>ELife</i> , 2018, 7, .	6.0	29
42	DO ANTS ENHANCE DIVERSIFICATION IN LYCAENID BUTTERFLIES? PHYLOGEOGRAPHIC EVIDENCE FROM A MODEL MYRMECOPHILE, JALMENUS EVAGORAS. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 315-327.	2.3	28
43	An Introduced Crop Plant Is Driving Diversification of the Virulent Bacterial Pathogen <i>Erwinia tracheiphila</i> . <i>MBio</i> , 2018, 9, .	4.1	28
44	Symbiotic microbiota may reflect host adaptation by resident to invasive ant species. <i>PLoS Pathogens</i> , 2019, 15, e1007942.	4.7	27
45	Genome Evolution of Bartonellaceae Symbionts of Ants at the Opposite Ends of the Trophic Scale. <i>Genome Biology and Evolution</i> , 2018, 10, 1687-1704.	2.5	26
46	The entomophagous caterpillar fungus <i>Ophiocordyceps sinensis</i> is consumed by its lepidopteran host as a plant endophyte. <i>Fungal Ecology</i> , 2020, 47, 100989.	1.6	26
47	Metabarcoding as a tool for investigating arthropod diversity in <i>Nepenthes</i> pitcher plants. <i>Austral Ecology</i> , 2016, 41, 120-132.	1.5	24
48	Dissecting host-associated communities with DNA barcodes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150328.	4.0	23
49	Cycad-feeding insects share a core gut microbiome. <i>Biological Journal of the Linnean Society</i> , 2018, 123, 728-738.	1.6	23
50	Social behaviour in bees influences the abundance of <i>Sodalis</i> (Enterobacteriaceae) symbionts. <i>Royal Society Open Science</i> , 2018, 5, 180369.	2.4	23
51	<i>In Situ</i> Activation and Heterologous Production of a Cryptic Lantibiotic from an African Plant Ant-Derived <i>Saccharopolyspora</i> Species. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	22
52	<i>Pseudomonas syringae</i> enhances herbivory by suppressing the reactive oxygen burst in <i>Arabidopsis</i> . <i>Journal of Insect Physiology</i> , 2016, 84, 90-102.	2.0	19
53	Distinctive fungal communities in an obligate African ant-plant mutualism. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20162501.	2.6	19
54	An ancient push-pull pollination mechanism in cycads. <i>Science Advances</i> , 2020, 6, eaay6169.	10.3	17

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55	Phylogeny of the <i>A</i> phnaeinae: myrmecophilous <i>A</i> frican butterflies with carnivorous and herbivorous life histories. <i>Systematic Entomology</i> , 2015, 40, 169-182.	3.9	16
56	Out of sight, out of mind: public and research interest in insects is negatively correlated with their conservation status. <i>Insect Conservation and Diversity</i> , 2021, 14, 700-708.	3.0	16
57	Combining stable isotope analysis with DNA metabarcoding improves inferences of trophic ecology. <i>PLoS ONE</i> , 2019, 14, e0219070.	2.5	15
58	Museum genomics reveals the Xerces blue butterfly ( <i>Glaucopsyche xerces</i> ) was a distinct species driven to extinction. <i>Biology Letters</i> , 2021, 17, 20210123.	2.3	15
59	Molecular phylogeny of the Oriental butterfly genus <i>Arhopala</i> (Lycaenidae, Theclinae) inferred from mitochondrial and nuclear genes. <i>Systematic Entomology</i> , 2004, 29, 115-131.	3.9	14
60	Draft Genome Sequence of <i>Erwinia tracheiphila</i> , an Economically Important Bacterial Pathogen of Cucurbits. <i>Genome Announcements</i> , 2015, 3, .	0.8	14
61	The setae of parasitic <i>Liphyra brassolis</i> butterfly larvae form a flexible armour for resisting attack by their ant hosts (Lycaenidae: Lepidoptera). <i>Biological Journal of the Linnean Society</i> , 2016, 117, 607-619.	1.6	14
62	Radio telemetry helps record the dispersal patterns of birdwing butterflies in mountainous habitats: Golden Birdwing ( <i>Troides aeacus</i> ) as an example. <i>Journal of Insect Conservation</i> , 2019, 23, 729-738.	1.4	14
63	Tropical pitcher plants ( <i>Nepenthes</i> ) act as ecological filters by altering properties of their fluid microenvironments. <i>Scientific Reports</i> , 2020, 10, 4431.	3.3	14
64	Eavesdropping on cooperative communication within an ant-butterfly mutualism. <i>Die Naturwissenschaften</i> , 2016, 103, 84.	1.6	13
65	The double cloak of invisibility: phenotypic plasticity and larval decoration in a geometrid moth, <i>Synchlora frondaria</i> , across three diet treatments. <i>Ecological Entomology</i> , 2009, 34, 412-414.	2.2	12
66	Ecological specialization is associated with genetic structure in the ant-associated butterfly family Lycaenidae. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20181158.	2.6	9
67	Evolutionary trade-offs between male secondary sexual traits revealed by a phylogeny of the hyperdiverse tribe Eumaeini (Lepidoptera: Lycaenidae). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20202512.	2.6	9
68	The effect of ant association on the population genetics of the Australian butterfly <i>Jalmenus evagoras</i> (Lepidoptera: Lycaenidae). <i>Biological Journal of the Linnean Society</i> , 1996, 58, 287-306.	1.6	8
69	Cycad-Weevil Pollination Symbiosis Is Characterized by Rapidly Evolving and Highly Specific Plant-Insect Chemical Communication. <i>Frontiers in Plant Science</i> , 2021, 12, 639368.	3.6	8
70	Measuring protected-area effectiveness using vertebrate distributions from leech iDNA. <i>Nature Communications</i> , 2022, 13, 1555.	12.8	8
71	The Natural History of Caterpillar-Ant Associations. <i>Fascinating Life Sciences</i> , 2022, , 319-391.	0.9	8
72	Wind drives temporal variation in pollinator visitation in a fragmented tropical forest. <i>Biology Letters</i> , 2020, 16, 20200103.	2.3	7

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73	An Empirical Model of Species Coexistence in a Spatially Structured Environment. <i>Ecology</i> , 2001, 82, 1761.	3.2	7
74	<i>Thitarodes shambalaensis</i> sp. nov. (Lepidoptera, Hepialidae): a new host of the caterpillar fungus <i>Ophiocordyceps sinensis</i> supported by genome-wide SNP data. <i>ZooKeys</i> , 2019, 885, 89-113.	1.1	7
75	Behavioral, ecological and evolutionary mechanisms underlying caterpillar-ant symbioses. <i>Current Opinion in Insect Science</i> , 2022, 52, 100898.	4.4	7
76	Development and characterization of twenty-two polymorphic microsatellite markers for the leafcutter ant, <i>Acromyrmex lundii</i> , utilizing Illumina sequencing. <i>Conservation Genetics Resources</i> , 2014, 6, 319-322.	0.8	6
77	Molecular phylogeny of the tribe Candalidini (Lepidoptera: Lycaenidae): systematics, diversification and evolutionary history. <i>Systematic Entomology</i> , 2020, 45, 703-722.	3.9	6
78	Recent diversification of <i>Chrysoritis</i> butterflies in the South African Cape (Lepidoptera: Lycaenidae). <i>Molecular Phylogenetics and Evolution</i> , 2020, 148, 106817.	2.7	6
79	Investigation of an Elevational Gradient Reveals Strong Differences Between Bacterial and Eukaryotic Communities Coinhabiting <i>Nepenthes Phytotelmata</i> . <i>Microbial Ecology</i> , 2020, 80, 334-349.	2.8	6
80	Ants of the Hengduan Mountains: a new altitudinal survey and updated checklist for Yunnan Province highlight an understudied insect biodiversity hotspot. <i>ZooKeys</i> , 2020, 978, 1-171.	1.1	6
81	Fine-scale genome-wide signature of Pleistocene glaciation in <i>Thitarodes</i> moths (Lepidoptera: Tj ETQq1 1 0.784314 rgBT / 2023, 32, 2695-2714.	3.9	6
82	Population Genomics and Demographic Sampling of the Ant-Plant <i>Vachellia drepanolobium</i> and Its Symbiotic Ants From Sites Across Its Range in East Africa. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, .	2.2	5
83	Do ants enhance diversification in lycaenid butterflies? Phylogeographic evidence from a model myrmecophile, <i>Jalmenus evagoras</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 315-27.	2.3	5
84	Agent-based models reveal limits of mark-recapture estimates for the rare butterfly, <i>Bhutanitis thaidina</i> (Lepidoptera: Papilionidae). <i>Insect Science</i> , 2022, 29, 550-566.	3.0	4
85	A First Record of <i>Anatrachyntis badia</i> (Hodges 1962) (Lepidoptera: Cosmopterigidae) on <i>Zamia integrifolia</i> (Zamiaceae). <i>Florida Entomologist</i> , 2018, 101, 335-338.	0.5	4
86	Profiling, monitoring and conserving caterpillar fungus in the Himalayan region using anchored hybrid enrichment markers. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, 20212650.	2.6	4
87	Development of twenty-one polymorphic microsatellite markers for the fungus-growing ant, <i>Mycocepurus goeldii</i> (Formicidae: Attini), using Illumina paired-end genomic sequencing. <i>Conservation Genetics Resources</i> , 2014, 6, 739-741.	0.8	3
88	Molecular evolution of a long wavelength-sensitive opsin in mimetic <i>Heliconius</i> butterflies (Lepidoptera: Nymphalidae). <i>Biological Journal of the Linnean Society</i> , 2001, 72, 435-449.	1.6	3
89	W.D. Hamilton, 1936-2000. <i>Nature Medicine</i> , 2000, 6, 367-367.	30.7	2
90	<i>Sarracenia</i> pitcher plant-associated microbial communities differ primarily by host species across a longitudinal gradient. <i>Environmental Microbiology</i> , 2022, 24, 3500-3516.	3.8	2

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91	Nine novel microsatellite markers for the army ant <i>Simopelta pergandei</i> (subfamily Ponerinae). <i>Conservation Genetics Resources</i> , 2011, 3, 61-63.	0.8	1
92	Edward O. Wilson (1929–2021). <i>Nature Ecology and Evolution</i> , 2022, 6, 240-241.	7.8	1
93	Report on the Emergence Time of a Species of <i>Thitarodes</i> Ghost Moth (Lepidoptera: Hepialidae), Host of the Caterpillar Fungus <i>Ophiocordyceps sinensis</i> (Ascomycota: Ophiocordycipitaceae) in Uttarakhand, India. <i>Journal of Economic Entomology</i> , 2020, 113, 2031-2034.	1.8	0