Naomi E Pierce

List of Publications by Year
in descending order

93 papers	4,769 citations	117453 34 h-index	114278 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). Annual Review of Entomology, 2002, 47, 733-771.	5.7	406
2	Bacterial gut symbionts are tightly linked with the evolution of herbivory in ants. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 21236-21241.	3.3	318
3	Stability and phylogenetic correlation in gut microbiota: lessons from ants and apes. Molecular Ecology, 2014, 23, 1268-1283.	2.0	276
4	A Comprehensive and Dated Phylogenomic Analysis of Butterflies. Current Biology, 2018, 28, 770-778.e5.	1.8	249
5	Synergistic effects of combining morphological and molecular data in resolving the phylogeny of butterflies and skippers. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 1577-1586.	1.2	228
6	CODIVERSIFICATION IN AN ANT-PLANT MUTUALISM: STEM TEXTURE AND THE EVOLUTION OF HOST USE IN CREMATOGASTER (FORMICIDAE: MYRMICINAE) INHABITANTS OF MACARANGA (EUPHORBIACEAE). Evolution; International Journal of Organic Evolution, 2004, 58, 554-570.	1.1	217
7	Neonicotinoid exposure disrupts bumblebee nest behavior, social networks, and thermoregulation. Science, 2018, 362, 683-686.	6.0	178
8	Local people value environmental services provided by forested parks. Biodiversity and Conservation, 2010, 19, 1175-1188.	1.2	146
9	The influence of ants on host plant selection by Jalmenus evagoras, a myrmecophilous lycaenid butterfly. Behavioral Ecology and Sociobiology, 1985, 16, 209-222.	0.6	142
10	Phylogeny, diversification patterns and historical biogeography of euglossine orchid bees (Hymenoptera: Apidae). Biological Journal of the Linnean Society, 0, 100, 552-572.	0.7	120
11	Herbivorous turtle ants obtain essential nutrients from a conserved nitrogen-recycling gut microbiome. Nature Communications, 2018, 9, 964.	5.8	115
12	The TASTY Locus on Chromosome 1 of Arabidopsis Affects Feeding of the Insect Herbivore Trichoplusia ni. Plant Physiology, 2001, 126, 890-898.	2.3	96
13	Physical and behavioral adaptations to prevent overheating of the living wings of butterflies. Nature Communications, 2020, 11, 551.	5.8	95
14	AN EMPIRICAL MODEL OF SPECIES COEXISTENCE IN A SPATIALLY STRUCTURED ENVIRONMENT. Ecology, 2001, 82, 1761-1771.	1.5	89
15	Establishing criteria for higherâ€level classification using molecular data: the systematics of Polyommatus blue butterflies (Lepidoptera, Lycaenidae). Cladistics, 2013, 29, 166-192.	1.5	84
16	Gut microbiota of dung beetles correspond to dietary specializations of adults and larvae. Molecular Ecology, 2016, 25, 6092-6106.	2.0	79
17	Dramatic Differences in Gut Bacterial Densities Correlate with Diet and Habitat in Rainforest Ants. Integrative and Comparative Biology, 2017, 57, 705-722.	0.9	77
18	Microbial Communities of Lycaenid Butterflies Do Not Correlate with Larval Diet. Frontiers in Microbiology, 2016, 7, 1920.	1.5	75

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19	The draft genome of a socially polymorphic halictid bee, Lasioglossum albipes. Genome Biology, 2013, 14, R142.	13.9	72
20	Ancient Neotropical origin and recent recolonisation: Phylogeny, biogeography and diversification of the Riodinidae (Lepidoptera: Papilionoidea). Molecular Phylogenetics and Evolution, 2015, 93, 296-306.	1.2	72
21	Solitary bees reduce investment in communication compared with their social relatives. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6569-6574.	3.3	67
22	Spatial fidelity of workers predicts collective response to disturbance in a social insect. Nature Communications, 2018, 9, 1201.	5.8	67
23	The genetic basis of a social polymorphism in halictid bees. Nature Communications, 2018, 9, 4338.	5.8	66
24	Revised systematics and higher classification of pierid butterflies (Lepidoptera: Pieridae) based on molecular data. Zoologica Scripta, 2014, 43, 641-650.	0.7	61
25	A Social Parasite Evolved Reproductive Isolation from Its Fungus-Growing Ant Host in Sympatry. Current Biology, 2014, 24, 2047-2052.	1.8	60
26	Rhizosphereâ€associated Pseudomonas induce systemic resistance to herbivores at the cost of susceptibility to bacterial pathogens. Molecular Ecology, 2018, 27, 1833-1847.	2.0	58
27	Lycaenid Caterpillar Secretions Manipulate Attendant Ant Behavior. Current Biology, 2015, 25, 2260-2264.	1.8	56
28	Convergence of chemical mimicry in a guild of aphid predators. Ecological Entomology, 2006, 31, 41-51.	1.1	51
29	Systematics, biogeography and diversification of the Indo-Australian genus Delias HÃ¼bner (Lepidoptera: Pieridae): phylogenetic evidence supports an â€˜out-of-Australiaâ€™ origin. Systematic Entomology, 2007, 32, 2-25.	1.7	51
30	Transitions in social complexity along elevational gradients reveal a combined impact of season length and development time on social evolution. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140627.	1.2	47
31	Anchored phylogenomics illuminates the skipper butterfly tree of life. BMC Evolutionary Biology, 2018, 18, 101.	3.2	47
32	Cloning of the gene encoding honeybee long-wavelength rhodopsin: A new class of insect visual pigments. Gene, 1996, 173, 215-219.	1.0	46
33	How common are dot-like distributions? Taxonomical oversplitting in western European Agrodiaetus (Lepidoptera: Lycaenidae) revealed by chromosomal and molecular markers. Biological Journal of the Linnean Society, 2010, 101, 130-154.	0.7	43
34	Assessing the quality of different ant species as partners of a myrmecophilous butterfly. Oecologia, 2001, 129, 452-460.	0.9	42
35	Convergence in Multispecies Interactions. Trends in Ecology and Evolution, 2016, 31, 269-280.	4.2	39
36	Crossâ€continental comparisons of butterfly assemblages in tropical rainforests: implications for biological monitoring. Insect Conservation and Diversity, 2013, 6, 223-233.	1.4	36

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37	DNA Barcodes Combined with Multilocus Data of Representative Taxa Can Generate Reliable Higher-Level Phylogenies. Systematic Biology, 2022, 71, 382-395.	2.7	35
38	When caterpillars attack: Biogeography and life history evolution of the Miletinae (Lepidoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7	1.1	34
39	Phylogenetics of moth-like butterflies (Papilionoidea: Hedylidae) based on a new 13-locus target capture probe set. Molecular Phylogenetics and Evolution, 2018, 127, 600-605.	1.2	33
40	The evolution of red color vision is linked to coordinated rhodopsin tuning in lycaenid butterflies. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	30
41	Convergence between the microcosms of Southeast Asian and North American pitcher plants. ELife, 2018, 7, .	2.8	29
42	DO ANTS ENHANCE DIVERSIFICATION IN LYCAENID BUTTERFLIES? PHYLOGEOGRAPHIC EVIDENCE FROM A MODEL MYRMECOPHILE, JALMENUS EVAGORAS. Evolution; International Journal of Organic Evolution, 2006, 60, 315-327.	1.1	28
43	An Introduced Crop Plant Is Driving Diversification of the Virulent Bacterial Pathogen Erwinia tracheiphila. MBio, 2018, 9, .	1.8	28
44	Symbiotic microbiota may reflect host adaptation by resident to invasive ant species. PLoS Pathogens, 2019, 15, e1007942.	2.1	27
45	Genome Evolution of Bartonellaceae Symbionts of Ants at the Opposite Ends of the Trophic Scale. Genome Biology and Evolution, 2018, 10, 1687-1704.	1.1	26
46	The entomophagous caterpillar fungus Ophiocordyceps sinensis is consumed by its lepidopteran host as a plant endophyte. Fungal Ecology, 2020, 47, 100989.	0.7	26
47	Metabarcoding as a tool for investigating arthropod diversity inNepenthespitcher plants. Austral Ecology, 2016, 41, 120-132.	0.7	24
48	Dissecting host-associated communities with DNA barcodes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150328.	1.8	23
49	Cycad-feeding insects share a core gut microbiome. Biological Journal of the Linnean Society, 2018, 123, 728-738.	0.7	23
50	Social behaviour in bees influences the abundance of Sodalis (Enterobacteriaceae) symbionts. Royal Society Open Science, 2018, 5, 180369.	1.1	23
51	In Situ Activation and Heterologous Production of a Cryptic Lantibiotic from an African Plant Ant-Derived Saccharopolyspora Species. Applied and Environmental Microbiology, 2020, 86, .	1.4	22
52	Pseudomonas syringae enhances herbivory by suppressing the reactive oxygen burst in Arabidopsis. Journal of Insect Physiology, 2016, 84, 90-102.	0.9	19
53	Distinctive fungal communities in an obligate African ant-plant mutualism. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20162501.	1.2	19
54	An ancient push-pull pollination mechanism in cycads. Science Advances, 2020, 6, eaay6169.	4.7	17

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55	Phylogeny of the <scp>A</scp>phnaeinae: myrmecophilous <scp>A</scp>frican butterflies with carnivorous and herbivorous life histories. Systematic Entomology, 2015, 40, 169-182.	1.7	16
56	Out of sight, out of mind: public and research interest in insects is negatively correlated with their conservation status. Insect Conservation and Diversity, 2021, 14, 700-708.	1.4	16
57	Combining stable isotope analysis with DNA metabarcoding improves inferences of trophic ecology. PLoS ONE, 2019, 14, e0219070.	1.1	15
58	Museum genomics reveals the Xerces blue butterfly (Glaucopsyche xerces) was a distinct species driven to extinction. Biology Letters, 2021, 17, 20210123.	1.0	15
59	Molecular phylogeny of the Oriental butterfly genus Arhopala (Lycaenidae, Theclinae) inferred from mitochondrial and nuclear genes. Systematic Entomology, 2004, 29, 115-131.	1.7	14
60	Draft Genome Sequence of Erwinia tracheiphila, an Economically Important Bacterial Pathogen of Cucurbits. Genome Announcements, 2015, 3, .	0.8	14
61	The setae of parasiticLiphyra brassolisbutterfly larvae form a flexible armour for resisting attack by their ant hosts (Lycaenidae: Lepidoptera). Biological Journal of the Linnean Society, 2016, 117, 607-619.	0.7	14
62	Radio telemetry helps record the dispersal patterns of birdwing butterflies in mountainous habitats: Golden Birdwing (Troides aeacus) as an example. Journal of Insect Conservation, 2019, 23, 729-738.	0.8	14
63	Tropical pitcher plants (Nepenthes) act as ecological filters by altering properties of their fluid microenvironments. Scientific Reports, 2020, 10, 4431.	1.6	14
64	Eavesdropping on cooperative communication within an ant-butterfly mutualism. Die Naturwissenschaften, 2016, 103, 84.	0.6	13
65	The double cloak of invisibility: phenotypic plasticity and larval decoration in a geometrid moth,Synchlora frondaria, across three diet treatments. Ecological Entomology, 2009, 34, 412-414.	1.1	12
66	Ecological specialization is associated with genetic structure in the ant-associated butterfly family Lycaenidae. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20181158.	1.2	9
67	Evolutionary trade-offs between male secondary sexual traits revealed by a phylogeny of the hyperdiverse tribe Eumaeini (Lepidoptera: Lycaenidae). Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20202512.	1.2	9
68	The effect of ant association on the population genetics of the Australian butterfly Jalmenus evagoras (Lepidoptera: Lycaenidae). Biological Journal of the Linnean Society, 1996, 58, 287-306.	0.7	8
69	Cycad-Weevil Pollination Symbiosis Is Characterized by Rapidly Evolving and Highly Specific Plant-Insect Chemical Communication. Frontiers in Plant Science, 2021, 12, 639368.	1.7	8
70	Measuring protected-area effectiveness using vertebrate distributions from leech iDNA. Nature Communications, 2022, 13, 1555.	5.8	8
71	The Natural History of Caterpillar-Ant Associations. Fascinating Life Sciences, 2022, , 319-391.	0.5	8
72	Wind drives temporal variation in pollinator visitation in a fragmented tropical forest. Biology Letters, 2020, 16, 20200103.	1.0	7

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73	AN EMPIRICAL MODEL OF SPECIES COEXISTENCE IN A SPATIALLY STRUCTURED ENVIRONMENT. , 2001, 82, 1761.		7
74	Thitarodes shambalaensis sp. nov. (Lepidoptera, Hepialidae): a new host of the caterpillar fungus Ophiocordyceps sinensis supported by genome-wide SNP data. ZooKeys, 2019, 885, 89-113.	0.5	7
75	Behavioral, ecological and evolutionary mechanisms underlying caterpillar-ant symbioses. Current Opinion in Insect Science, 2022, 52, 100898.	2.2	7
76	Development and characterization of twenty-two polymorphic microsatellite markers for the leafcutter ant, Acromyrmex lundii, utilizing Illumina sequencing. Conservation Genetics Resources, 2014, 6, 319-322.	0.4	6
77	Molecular phylogeny of the tribe Candalidini (Lepidoptera: Lycaenidae): systematics, diversification and evolutionary history. Systematic Entomology, 2020, 45, 703-722.	1.7	6
78	Recent diversification of Chrysoritis butterflies in the South African Cape (Lepidoptera: Lycaenidae). Molecular Phylogenetics and Evolution, 2020, 148, 106817.	1.2	6
79	Investigation of an Elevational Gradient Reveals Strong Differences Between Bacterial and Eukaryotic Communities Coinhabiting Nepenthes Phytotelmata. Microbial Ecology, 2020, 80, 334-349.	1.4	6
80	Ants of the Hengduan Mountains: a new altitudinal survey and updated checklist for Yunnan Province highlight an understudied insect biodiversity hotspot. ZooKeys, 2020, 978, 1-171.	0.5	6
81	Fineâ€scale genomeâ€wide signature of Pleistocene glaciation in Thitarodes moths (Lepidoptera:) Tj ETQq1 1 0.784314 rgBT /Ov 2023, 32, 2695-2714.	2.0	6
82	Population Genomics and Demographic Sampling of the Ant-Plant Vachellia drepanolobium and Its Symbiotic Ants From Sites Across Its Range in East Africa. Frontiers in Ecology and Evolution, 2019, 7, .	1.1	5
83	Do ants enhance diversification in lycaenid butterflies? Phylogeographic evidence from a model myrmecophile, Jalmenus evagoras. Evolution; International Journal of Organic Evolution, 2006, 60, 315-27.	1.1	5
84	Agentâ€based models reveal limits of markâ€“releaseâ€“recapture estimates for the rare butterfly, Bhutanitis thaidina (Lepidoptera: Papilionidae). Insect Science, 2022, 29, 550-566.	1.5	4
85	A First Record ofAnatrachyntis badia(Hodges 1962) (Lepidoptera: Cosmopterigidae) onZamia integrifolia(Zamiaceae). Florida Entomologist, 2018, 101, 335-338.	0.2	4
86	Profiling, monitoring and conserving caterpillar fungus in the Himalayan region using anchored hybrid enrichment markers. Proceedings of the Royal Society B: Biological Sciences, 2022, 289, 20212650.	1.2	4
87	Development of twenty-one polymorphic microsatellite markers for the fungus-growing ant, Mycocepurus goeldii (Formicidae: Attini), using Illumina paired-end genomic sequencing. Conservation Genetics Resources, 2014, 6, 739-741.	0.4	3
88	Molecular evolution of a long wavelength-sensitive opsin in mimetic Heliconius butterflies (Lepidoptera: Nymphalidae). Biological Journal of the Linnean Society, 2001, 72, 435-449.	0.7	3
89	W.D. Hamilton, 1936â€“2000. Nature Medicine, 2000, 6, 367-367.	15.2	2
90	Sarracenia pitcher plantâ€associated microbial communities differ primarily by host species across a longitudinal gradient. Environmental Microbiology, 2022, 24, 3500-3516.	1.8	2

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91	Nine novel microsatellite markers for the army ant Simopelta pergandei (subfamily Ponerinae). Conservation Genetics Resources, 2011, 3, 61-63.	0.4	1
92	Edward O. Wilson (1929â€“2021). Nature Ecology and Evolution, 2022, 6, 240-241.	3.4	1
93	Report on the Emergence Time of a Species of Thitarodes Ghost Moth (Lepidoptera: Hepialidae), Host of the Caterpillar Fungus Ophiocordyceps sinensis (Ascomycota: Ophiocordycipitaceae) in Uttarakhand, India. Journal of Economic Entomology, 2020, 113, 2031-2034.	0.8	0