

Michael Traugott

List of Publications by Year in descending order

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Version: 2024-02-01

116
papers

4,687
citations

101543

36
h-index

133252

59
g-index

125
all docs

125
docs citations

125
times ranked

4250
citing authors

#	ARTICLE	IF	CITATIONS
1	The amount of environmental DNA increases with freshwater crayfish density and over time. <i>Environmental DNA</i> , 2022, 4, 417-424.	5.8	6
2	Why <scp>eDNA</scp> fractions need consideration in biomonitoring. <i>Molecular Ecology Resources</i> , 2022, 22, 2458-2470.	4.8	16
3	<scp>RNA</scp> allows identifying the consumption of carrion prey. <i>Molecular Ecology Resources</i> , 2022, 22, 2662-2671.	4.8	8
4	Molecular Methods to Study Great Cormorant Feeding Ecology. <i>Ardea</i> , 2022, 109, .	0.6	0
5	Lateral and longitudinal fish environmental DNA distribution in dynamic riverine habitats. <i>Environmental DNA</i> , 2021, 3, 305-318.	5.8	26
6	Limited detection of secondarily consumed plant food by DNA-based diet analysis of omnivorous carabid beetles. <i>Environmental DNA</i> , 2021, 3, 426-434.	5.8	6
7	The Effect of Activity, Energy Use, and Species Identity on Environmental DNA Shedding of Freshwater Fish. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	2.2	43
8	A validation scale to determine the readiness of environmental DNA assays for routine species monitoring. <i>Environmental DNA</i> , 2021, 3, 823-836.	5.8	102
9	Detection of prey DNA in bat feces: Effects of time since feeding, meal size, and prey identity. <i>Environmental DNA</i> , 2021, 3, 959-969.	5.8	12
10	Landscape complexity promotes resilience of biological pest control to climate change. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20210547.	2.6	10
11	Endpoint PCR coupled with capillary electrophoresis (celPCR) provides sensitive and quantitative measures of environmental DNA in singleplex and multiplex reactions. <i>PLoS ONE</i> , 2021, 16, e0254356.	2.5	7
12	Handling of targeted amplicon sequencing data focusing on index hopping and demultiplexing using a nested metabarcoding approach in ecology. <i>Scientific Reports</i> , 2021, 11, 19510.	3.3	14
13	Fish as predators and prey: <scp>DNA</scp>-based assessment of their role in food webs. <i>Journal of Fish Biology</i> , 2021, 98, 367-382.	1.6	36
14	Intraguild predation is independent of landscape context and does not affect the temporal dynamics of aphids in cereal fields. <i>Journal of Pest Science</i> , 2020, 93, 235-249.	3.7	14
15	The resilience of weed seedbank regulation by carabid beetles, at continental scales, to alternative prey. <i>Scientific Reports</i> , 2020, 10, 19315.	3.3	35
16	Host plant resistance promotes a secondary pest population. <i>Ecosphere</i> , 2020, 11, e03073.	2.2	7
17	Ecosystem function in predator-prey food webs confronting dynamic models with empirical data. <i>Journal of Animal Ecology</i> , 2019, 88, 196-210.	2.8	52
18	Resolving the predator first paradox: Arthropod predator food webs in pioneer sites of glacier forelands. <i>Molecular Ecology</i> , 2019, 28, 336-347.	3.9	25

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19	Resilience of ecosystem processes: a new approach shows that functional redundancy of biological control services is reduced by landscape simplification. <i>Ecology Letters</i> , 2019, 22, 1568-1577.	6.4	26
20	Monitoring spawning migrations of potamodromous fish species via eDNA. <i>Scientific Reports</i> , 2019, 9, 15388.	3.3	61
21	Molecular analysis indicates high levels of carabid weed seed consumption in cereal fields across Central Europe. <i>Journal of Pest Science</i> , 2019, 92, 935-942.	3.7	41
22	Influence of plant fertilisation on cereal aphid-primary parasitoid-secondary parasitoid networks in simple and complex landscapes. <i>Agriculture, Ecosystems and Environment</i> , 2019, 281, 47-55.	5.3	6
23	Hidden in plain sight: phylogeography of an overlooked parasitoid species <i>Trioxys sunnysidensis</i> Fulbright & Pike (Hymenoptera: Braconidae: Aphidiinae). <i>Agricultural and Forest Entomology</i> , 2019, 21, 299-308.	1.3	6
24	Introduction: Special issue on species interactions, ecological networks and community dynamics – Untangling the entangled bank using molecular techniques. <i>Molecular Ecology</i> , 2019, 28, 157-164.	3.9	20
25	When to use next generation sequencing or diagnostic PCR in diet analyses. <i>Molecular Ecology Resources</i> , 2019, 19, 388-399.	4.8	23
26	Identifying plant DNA in the sponging-feeding insect pest <i>Drosophila suzukii</i> . <i>Journal of Pest Science</i> , 2018, 91, 985-994.	3.7	13
27	Comparing three types of dietary samples for prey DNA decay in an insect generalist predator. <i>Molecular Ecology Resources</i> , 2018, 18, 966-973.	4.8	31
28	Structural and functional characteristics of high alpine soil macro-invertebrate communities. <i>European Journal of Soil Biology</i> , 2018, 86, 72-80.	3.2	17
29	A simple and cost-effective molecular method to track predation on <i>Drosophila suzukii</i> in the field. <i>Journal of Pest Science</i> , 2018, 91, 927-935.	3.7	28
30	Habitat heterogeneity induces rapid changes in the feeding behaviour of generalist arthropod predators. <i>Functional Ecology</i> , 2018, 32, 809-819.	3.6	48
31	Testing the validity of functional response models using molecular gut content analysis for prey choice in soil predators. <i>Oikos</i> , 2018, 127, 915-926.	2.7	18
32	A broadly applicable COI primer pair and an efficient single-tube amplicon library preparation protocol for metabarcoding. <i>Ecology and Evolution</i> , 2018, 8, 12335-12350.	1.9	22
33	The effect of plant identity and mixed feeding on the detection of seed DNA in regurgitates of carabid beetles. <i>Ecology and Evolution</i> , 2018, 8, 10834-10846.	1.9	16
34	Sex-specific prey partitioning in breeding piscivorous birds examined via a novel, noninvasive approach. <i>Ecology and Evolution</i> , 2018, 8, 8985-8998.	1.9	10
35	High Redundancy as well as Complementary Prey Choice Characterize Generalist Predator Food Webs in Agroecosystems. <i>Scientific Reports</i> , 2018, 8, 8054.	3.3	51
36	Facultative bacterial endosymbionts shape parasitoid food webs in natural host populations: A correlative analysis. <i>Journal of Animal Ecology</i> , 2018, 87, 1440-1451.	2.8	22

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37	Diet of generalist predators reflects effects of cropping period and farming system on extra- and intraguild prey. <i>Ecological Applications</i> , 2017, 27, 1167-1177.	3.8	74
38	Diet analysis in piscivorous birds: What can the addition of molecular tools offer?. <i>Ecology and Evolution</i> , 2017, 7, 1984-1995.	1.9	24
39	Evaluation of an automated protocol for efficient and reliable <scp>DNA</scp> extraction of dietary samples. <i>Ecology and Evolution</i> , 2017, 7, 6382-6389.	1.9	22
40	An effective molecular approach for assessing cereal aphid-parasitoid-endosymbiont networks. <i>Scientific Reports</i> , 2017, 7, 3138.	3.3	18
41	The influence of meal size on prey <scp>DNA</scp> detectability in piscivorous birds. <i>Molecular Ecology Resources</i> , 2017, 17, e174-e186.	4.8	27
42	Species composition and seasonal dynamics of aphid parasitoids and hyperparasitoids in wheat fields in northern China. <i>Scientific Reports</i> , 2017, 7, 13989.	3.3	17
43	Evaluation of three molecular markers for identification of European primary parasitoids of cereal aphids and their hyperparasitoids. <i>PLoS ONE</i> , 2017, 12, e0177376.	2.5	14
44	Trophic and Non-Trophic Interactions in a Biodiversity Experiment Assessed by Next-Generation Sequencing. <i>PLoS ONE</i> , 2016, 11, e0148781.	2.5	21
45	A two-dimensional pooling approach towards efficient detection of parasitoid and pathogen <scp>DNA</scp> at low infestation rates. <i>Methods in Ecology and Evolution</i> , 2016, 7, 1548-1557.	5.2	13
46	Special issue on <i>Drosophila suzukii</i> : from global invasion to sustainable control. <i>Journal of Pest Science</i> , 2016, 89, 603-604.	3.7	15
47	Food Web Designer: a flexible tool to visualize interaction networks. <i>Journal of Pest Science</i> , 2016, 89, 1-5.	3.7	36
48	Maximizing dietary information retrievable from carcasses of Great Cormorants <i>Phalacrocorax carbo</i> using a combined morphological and molecular analytical approach. <i>Ibis</i> , 2016, 158, 51-60.	1.9	10
49	Diagnostic PCR assays to unravel food web interactions in cereal crops with focus on biological control of aphids. <i>Journal of Pest Science</i> , 2016, 89, 281-293.	3.7	48
50	Molecular prey identification in Central European piscivores. <i>Molecular Ecology Resources</i> , 2016, 16, 123-137.	4.8	41
51	Detection of seed DNA in regurgitates of granivorous carabid beetles. <i>Bulletin of Entomological Research</i> , 2015, 105, 728-735.	1.0	33
52	Biology, Ecology, and Control of Elaterid Beetles in Agricultural Land. <i>Annual Review of Entomology</i> , 2015, 60, 313-334.	11.8	116
53	Increased decomposer diversity accelerates and potentially stabilises litter decomposition. <i>Soil Biology and Biochemistry</i> , 2015, 83, 138-141.	8.8	34
54	Additive effects of predator diversity on pest control caused by few interactions among predator species. <i>Ecological Entomology</i> , 2015, 40, 362-371.	2.2	25

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55	Sparing spiders: faeces as a non-invasive source of DNA. <i>Frontiers in Zoology</i> , 2015, 12, 3.	2.0	22
56	Molecular Identification of Adult and Juvenile Linyphiid and Theridiid Spiders in Alpine Glacier Foreland Communities. <i>PLoS ONE</i> , 2014, 9, e101755.	2.5	9
57	How generalist herbivores exploit belowground plant diversity in temperate grasslands. <i>Molecular Ecology</i> , 2014, 23, 3826-3837.	3.9	25
58	Effects of prey quality and predator body size on prey DNA detection success in a centipede predator. <i>Molecular Ecology</i> , 2014, 23, 3767-3776.	3.9	24
59	Intraguild predation in pioneer predator communities of alpine glacier forelands. <i>Molecular Ecology</i> , 2014, 23, 3744-3754.	3.9	60
60	Identification of the most common predatory hoverflies of Mediterranean vegetable crops and their parasitism using multiplex PCR. <i>Journal of Pest Science</i> , 2014, 87, 371-378.	3.7	28
61	Group-Specific Multiplex PCR Detection Systems for the Identification of Flying Insect Prey. <i>PLoS ONE</i> , 2014, 9, e115501.	2.5	21
62	Occurrence of <i>Agriotes</i> wireworms in Austrian agricultural land. <i>Journal of Pest Science</i> , 2013, 86, 33-39.	3.7	30
63	Empirically Characterising Trophic Networks. <i>Advances in Ecological Research</i> , 2013, , 177-224.	2.7	133
64	The effect of predator identity on post-feeding prey DNA detection success in soil-dwelling macro-invertebrates. <i>Soil Biology and Biochemistry</i> , 2013, 63, 116-123.	8.8	35
65	Unveiling soil food web links: New PCR assays for detection of prey DNA in the gut of soil arthropod predators. <i>Soil Biology and Biochemistry</i> , 2013, 57, 943-945.	8.8	42
66	The effect of plant identity and the level of plant decay on molecular gut content analysis in a herbivorous soil insect. <i>Molecular Ecology Resources</i> , 2013, 13, 75-83.	4.8	53
67	Understanding the ecology of wireworms and improving their control: a special issue. <i>Journal of Pest Science</i> , 2013, 86, 1-2.	3.7	7
68	Plant diversity affects behavior of generalist root herbivores, reduces crop damage, and enhances crop yield. <i>Ecological Applications</i> , 2013, 23, 1135-1145.	3.8	42
69	Noncrop flowering plants restore top-down herbivore control in agricultural fields. <i>Ecology and Evolution</i> , 2013, 3, 2634-2646.	1.9	46
70	Effects of plant identity and diversity on the dietary choice of a soil-dwelling insect herbivore. <i>Ecology</i> , 2012, 93, 2650-2657.	3.2	33
71	Scavenging and active predation in generalist predators: A mesocosm study employing DNA-based gut content analysis. <i>Pedobiologia</i> , 2012, 55, 1-5.	1.2	36
72	Generalist predators disrupt parasitoid aphid control by direct and coincidental intraguild predation. <i>Bulletin of Entomological Research</i> , 2012, 102, 239-247.	1.0	88

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73	Advances in multiplex PCR: balancing primer efficiencies and improving detection success. <i>Methods in Ecology and Evolution</i> , 2012, 3, 898-905.	5.2	137
74	Rapid Plant Identification Using Species- and Group-Specific Primers Targeting Chloroplast DNA. <i>PLoS ONE</i> , 2012, 7, e29473.	2.5	41
75	Editorial 2012: shaping the profile of <i>Journal of Pest Science</i> . <i>Journal of Pest Science</i> , 2012, 85, 1-3.	3.7	2
76	DNA-based analysis of regurgitates: a noninvasive approach to examine the diet of invertebrate consumers. <i>Molecular Ecology Resources</i> , 2012, 12, 669-675.	4.8	33
77	Comparing four mitochondrial genes in earthworms – Implications for identification, phylogenetics, and discovery of cryptic species. <i>Soil Biology and Biochemistry</i> , 2012, 45, 23-30.	8.8	42
78	Drought-induced reduction in uptake of recently photosynthesized carbon by springtails and mites in alpine grassland. <i>Soil Biology and Biochemistry</i> , 2012, 55, 37-39.	8.8	9
79	Molecular scatology: how to improve prey DNA detection success in avian faeces?. <i>Molecular Ecology Resources</i> , 2011, 11, 620-628.	4.8	91
80	Optimizing methods for PCR-based analysis of predation. <i>Molecular Ecology Resources</i> , 2011, 11, 795-801.	4.8	59
81	Which prey sustains cold-adapted invertebrate generalist predators in arable land? Examining prey choices by molecular gut-content analysis. <i>Journal of Applied Ecology</i> , 2011, 48, 591-599.	4.0	67
82	Detecting ingested plant DNA in soil-living insect larvae. <i>Soil Biology and Biochemistry</i> , 2011, 43, 346-350.	8.8	64
83	Stable isotope analysis reveals whether soil-living elaterid larvae move between agricultural crops. <i>Soil Biology and Biochemistry</i> , 2011, 43, 1612-1614.	8.8	33
84	PCR-based species identification of <i>Agriotes</i> larvae. <i>Bulletin of Entomological Research</i> , 2011, 101, 201-210.	1.0	51
85	Editorial 2010. <i>Journal of Pest Science</i> , 2010, 83, 1-2.	3.7	6
86	Molecular identification of detritivorous soil invertebrates from their faecal pellets. <i>Soil Biology and Biochemistry</i> , 2010, 42, 1263-1267.	8.8	11
87	Dispersal abilities of adult click beetles in arable land revealed by analysis of carbon stable isotopes. <i>Agricultural and Forest Entomology</i> , 2009, 11, 333-339.	1.3	45
88	Impact of wildflower strips on biological control of cabbage lepidopterans. <i>Agriculture, Ecosystems and Environment</i> , 2009, 129, 310-314.	5.3	56
89	Parasitoid control of aphids in organic and conventional farming systems. <i>Agriculture, Ecosystems and Environment</i> , 2009, 133, 14-18.	5.3	63
90	Dwarf shrub litter as a food source for macro-decomposers in alpine pastureland. <i>Applied Soil Ecology</i> , 2009, 41, 178-184.	4.3	20

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91	News from the Editor-in-Chief. <i>Journal of Pest Science</i> , 2008, 81, 1-2.	3.7	2
92	The effects of temperature on detection of prey DNA in two species of carabid beetle. <i>Bulletin of Entomological Research</i> , 2008, 98, 263-269.	1.0	51
93	Impact of abiotic factors on predator-prey interactions: DNA-based gut content analysis in a microcosm experiment. <i>Bulletin of Entomological Research</i> , 2008, 98, 257-261.	1.0	20
94	INVITED REVIEW: Molecular analysis of predation: a review of best practice for DNA-based approaches. <i>Molecular Ecology</i> , 2008, 17, 947-963.	3.9	566
95	Endoparasitism in cereal aphids: molecular analysis of a whole parasitoid community. <i>Molecular Ecology</i> , 2008, 17, 3928-3938.	3.9	88
96	Beneficial links for the control of aphids: the effects of compost applications on predators and prey. <i>Journal of Applied Ecology</i> , 2008, 45, 1266-1273.	4.0	39
97	The feeding ecology of elaterid larvae in central European arable land: New perspectives based on naturally occurring stable isotopes. <i>Soil Biology and Biochemistry</i> , 2008, 40, 342-349.	8.8	69
98	Molecular analysis of predation on parasitized hosts. <i>Bulletin of Entomological Research</i> , 2008, 98, 223-231.	1.0	65
99	Editorial. <i>Bulletin of Entomological Research</i> , 2008, 98, 215-215.	1.0	0
100	Revealing species-specific trophic links in soil food webs: molecular identification of scarab predators. <i>Molecular Ecology</i> , 2007, 16, 1545-1557.	3.9	89
101	Evaluating ¹⁵ N/ ¹⁴ N and ¹³ C/ ¹² C isotope ratio analysis to investigate trophic relationships of elaterid larvae (Coleoptera: Elateridae). <i>Soil Biology and Biochemistry</i> , 2007, 39, 1023-1030.	8.8	34
102	Detecting key parasitoids of lepidopteran pests by multiplex PCR. <i>Biological Control</i> , 2006, 39, 39-46.	3.0	40
103	Habitat use and activity patterns of larval and adult <i>Cantharis</i> beetles in arable land. <i>European Journal of Soil Biology</i> , 2006, 42, 82-88.	3.2	7
104	Earthworm primers for DNA-based gut content analysis and their cross-reactivity in a multi-species system. <i>Soil Biology and Biochemistry</i> , 2006, 38, 1308-1315.	8.8	38
105	Amplification facilitators and multiplex PCR: Tools to overcome PCR-inhibition in DNA-gut-content analysis of soil-living invertebrates. <i>Soil Biology and Biochemistry</i> , 2006, 38, 1872-1879.	8.8	90
106	Detecting predation and scavenging by DNA gut-content analysis: a case study using a soil insect predator-prey system. <i>Oecologia</i> , 2005, 142, 344-352.	2.0	152
107	Effects of the entomopathogenic fungus <i>Beauveria brongniartii</i> on the non-target predator <i>Poecilus versicolor</i> (Coleoptera: Carabidae). <i>Biological Control</i> , 2005, 33, 107-112.	3.0	22
108	Spatial distribution of epigeic predators in a small field in relation to season and surrounding crops. <i>Agriculture, Ecosystems and Environment</i> , 2004, 103, 613-620.	5.3	11

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109	The prey spectrum of larval and adult <i>Cantharis</i> species in arable land: An electrophoretic approach. <i>Pedobiologia</i> , 2003, 47, 161-169.	1.2	29
110	Saisonale Änderungen in der Artengemeinschaft und den Größtenklassen epigäischer Prädatoren in einem kleinen Feld. <i>Entomologia Generalis</i> , 2003, 26, 259-275.	3.1	12
111	The Histerid Beetle Coenosis (Coleoptera: Histeridae) of an Organic Potato Field: Seasonal Dynamics, Age Structure, Life Cycles and Spatial Distribution. <i>Biological Agriculture and Horticulture</i> , 2002, 19, 365-376.	1.0	4
112	Dispersal power, home range and habitat preference of cantharid larvae (Coleoptera: Cantharidae) in arable land. <i>European Journal of Soil Biology</i> , 2002, 38, 79-83.	3.2	16
113	Larval and adult species composition, phenology and life cycles of carabid beetles (Coleoptera: Tj ETQq1 1 0.784314 rgBT / Overlock 10	3.2	28
114	Empirical Methods of Identifying and Quantifying Trophic Interactions for Constructing Soil Food-Web Models. , 0, , 257-286.		6
115	DNAqua-Net: Developing new genetic tools for bioassessment and monitoring of aquatic ecosystems in Europe. <i>Research Ideas and Outcomes</i> , 0, 2, e11321.	1.0	154
116	Microchemical provenancing of prey remains in cormorant pellets reveals the use of diverse foraging grounds. <i>Journal of Wildlife Management</i> , 0, , .	1.8	0