

Christoph Vorburger

List of Publications by Year in descending order

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100
papers

3,522
citations

117625

34
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168389

53
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105
all docs

105
docs citations

105
times ranked

2397
citing authors

#	ARTICLE	IF	CITATIONS
1	Defensive Symbionts and the Evolution of Parasitoid Host Specialization. Annual Review of Entomology, 2022, 67, 329-346.	11.8	10
2	Parasite DNA detection in water samples enhances crayfish plague monitoring in asymptomatic invasive populations. Biological Invasions, 2022, 24, 281-297.	2.4	5
3	Bottom-up effect of host protective symbionts on parasitoid diversity: Limited evidence from two field experiments. Journal of Animal Ecology, 2022, 91, 643-654.	2.8	1
4	Similar cost of <i>Hamiltonella defensa</i> in experimental and natural aphid-endosymbiont associations. Ecology and Evolution, 2022, 12, e8551.	1.9	7
5	Gated Communities: Inter- and Intraspecific Diversity of Endosymbionts Across Four Sympatric Aphid Species. Frontiers in Ecology and Evolution, 2022, 10, .	2.2	8
6	Quantitative trait locus analysis of parasitoid counteradaptation to symbiont-conferred resistance. Heredity, 2021, 127, 219-232.	2.6	4
7	Triple RNA-Seq characterizes aphid gene expression in response to infection with unequally virulent strains of the endosymbiont <i>Hamiltonella defensa</i> . BMC Genomics, 2021, 22, 449.	2.8	10
8	Aphids harbouring different endosymbionts exhibit differences in cuticular hydrocarbon profiles that can be recognized by ant mutualists. Scientific Reports, 2021, 11, 19559.	3.3	11
9	Positive association between the diversity of symbionts and parasitoids of aphids in field populations. Ecosphere, 2021, 12, e03355.	2.2	7
10	Strong genotype-by-genotype interactions between aphid-defensive symbionts and parasitoids persist across different biotic environments. Journal of Evolutionary Biology, 2021, 34, 1944-1953.	1.7	5
11	Parasitoids as drivers of symbiont diversity in an insect host. Ecology Letters, 2020, 23, 1232-1241.	6.4	16
12	Functional insights from the GC-poor genomes of two aphid parasitoids, <i>Aphidius ervi</i> and <i>Lysiphlebus fabarum</i> . BMC Genomics, 2020, 21, 376.	2.8	19
13	Prior adaptation of parasitoids improves biological control of symbiont-protected pests. Evolutionary Applications, 2020, 13, 1868-1876.	3.1	16
14	On biological evolution and environmental solutions. Science of the Total Environment, 2020, 724, 138194.	8.0	9
15	Horizontal Transmission of the Heritable Protective Endosymbiont <i>Hamiltonella defensa</i> Depends on Titre and Haplotype. Frontiers in Microbiology, 2020, 11, 628755.	3.5	11
16	A Novel RNA Virus in the Parasitoid Wasp <i>Lysiphlebus fabarum</i> : Genomic Structure, Prevalence, and Transmission. Viruses, 2020, 12, 59.	3.3	7
17	Validation of an eDNA-based method for the detection of wildlife pathogens in water. Diseases of Aquatic Organisms, 2020, 141, 171-184.	1.0	20
18	Nonrandom associations of maternally transmitted symbionts in insects: The roles of drift versus biased cotransmission and selection. Molecular Ecology, 2019, 28, 5330-5346.	3.9	24

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19	Mapping of Multiple Complementary Sex Determination Loci in a Parasitoid Wasp. <i>Genome Biology and Evolution</i> , 2019, 11, 2954-2962.	2.5	10
20	Evolutionary costs and benefits of infection with diverse strains of <i>Spiroplasma</i> in pea aphids*. <i>Evolution; International Journal of Organic Evolution</i> , 2019, 73, 1466-1481.	2.3	27
21	Estimating costs of aphid resistance to parasitoids conferred by a protective strain of the bacterial endosymbiont <i>Regiella insecticola</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2019, 167, 252-260.	1.4	14
22	Diversity begets diversity: do parasites promote variation in protective symbionts?. <i>Current Opinion in Insect Science</i> , 2019, 32, 8-14.	4.4	18
23	The role of defensive symbionts in host-parasite coevolution. <i>Biological Reviews</i> , 2018, 93, 1747-1764.	10.4	82
24	Defensive symbionts mediate species coexistence in phytophagous insects. <i>Functional Ecology</i> , 2018, 32, 1057-1064.	3.6	10
25	Symbiont-conferred resistance to parasitoids in aphids – Challenges for biological control. <i>Biological Control</i> , 2018, 116, 17-26.	3.0	40
26	Rapid evolution of symbiont-mediated resistance compromises biological control of aphids by parasitoids. <i>Evolutionary Applications</i> , 2018, 11, 220-230.	3.1	28
27	Aphid specialization on different summer hosts is associated with strong genetic differentiation and unequal symbiont communities despite a common mating habitat. <i>Journal of Evolutionary Biology</i> , 2017, 30, 762-772.	1.7	8
28	Faithful vertical transmission but ineffective horizontal transmission of bacterial endosymbionts during sexual reproduction of the black bean aphid, <i>Aphis fabae</i> . <i>Ecological Entomology</i> , 2017, 42, 202-209.	2.2	13
29	The influence of facultative endosymbionts on honeydew carbohydrate and amino acid composition of the black bean aphid <i>Aphis fabae</i> . <i>Physiological Entomology</i> , 2017, 42, 125-133.	1.5	18
30	Parasitoid gene expression changes after adaptation to symbiont-protected hosts. <i>Evolution; International Journal of Organic Evolution</i> , 2017, 71, 2599-2617.	2.3	63
31	Postglacial recolonizations, watershed crossings and human translocations shape the distribution of chub lineages around the Swiss Alps. <i>BMC Evolutionary Biology</i> , 2016, 16, 185.	3.2	4
32	Are aphid parasitoids locally adapted to the prevalence of defensive symbionts in their hosts?. <i>BMC Evolutionary Biology</i> , 2016, 16, 271.	3.2	37
33	Wing shape as a taxonomic trait: separating genetic variation from host-induced plasticity in aphid parasitoids. <i>Zoological Journal of the Linnean Society</i> , 2016, , .	2.3	2
34	Fish population genetic structure shaped by hydroelectric power plants in the upper Rhine catchment. <i>Evolutionary Applications</i> , 2016, 9, 394-408.	3.1	60
35	River fragmentation and fish population structure: a comparison of three Swiss midland rivers. <i>Freshwater Science</i> , 2016, 35, 689-700.	1.8	12
36	Bacterial endosymbionts protect aphids in the field and alter parasitoid community composition. <i>Ecology</i> , 2016, 97, 1712-1723.	3.2	56

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37	Genetic and morphological variation in sexual and asexual parasitoids of the genus <i>Lysiphlebus</i> – an apparent link between wing shape and reproductive mode. <i>BMC Evolutionary Biology</i> , 2015, 15, 5.	3.2	13
38	Cheaper is not always worse: strongly protective isolates of a defensive symbiont are less costly to the aphid host. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20142333.	2.6	58
39	Symbiont-conferred protection against Hymenopteran parasitoids in aphids: how general is it?. <i>Ecological Entomology</i> , 2015, 40, 85-93.	2.2	67
40	Sugar-feeding behaviour and longevity of European <i>Culicoides</i> biting midges. <i>Medical and Veterinary Entomology</i> , 2015, 29, 17-25.	1.5	14
41	Thelytoky and Sex Determination in the Hymenoptera: Mutual Constraints. <i>Sexual Development</i> , 2014, 8, 50-58.	2.0	13
42	A set of new and cross-amplifying microsatellite loci for conservation genetics of the endangered stone crayfish (<i>Austropotamobius torrentium</i>). <i>Conservation Genetics Resources</i> , 2014, 6, 629-631.	0.8	6
43	The <i>Praon dorsale</i> - <i>yomenae</i> s.str. complex (Hymenoptera, Braconidae, Aphidiinae): Species discrimination using geometric morphometrics and molecular markers with description of a new species. <i>Zoologischer Anzeiger</i> , 2014, 253, 270-282.	0.9	13
44	Cover Caption. <i>Insect Science</i> , 2014, 21, i-i.	3.0	69
45	EXPERIMENTAL EVOLUTION OF PARASITOID INFECTIVITY ON SYMBIONT-PROTECTED HOSTS LEADS TO THE EMERGENCE OF GENOTYPE SPECIFICITY. <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 1607-1616.	2.3	69
46	Biased Transmission of Sex Chromosomes in the Aphid <i>Myzus persicae</i> Is Not Associated with Reproductive Mode. <i>PLoS ONE</i> , 2014, 9, e116348.	2.5	3
47	Host specialization of parasitoids and their hyperparasitoids on a pair of syntopic aphid species. <i>Bulletin of Entomological Research</i> , 2013, 103, 530-537.	1.0	6
48	<i>Lysiphlebus orientalis</i> (Hymenoptera, Braconidae), a new invasive aphid parasitoid in Europe – evidence from molecular markers. <i>Bulletin of Entomological Research</i> , 2013, 103, 451-457.	1.0	21
49	Geographic structure with no evidence for host-associated lineages in European populations of <i>Lysiphlebus testaceipes</i> , an introduced biological control agent. <i>Biological Control</i> , 2013, 66, 150-158.	3.0	16
50	Identification of Two Cryptic Species within the <i>Praon abjectum</i> Group (Hymenoptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 <i>Entomological Society of America</i> , 2013, 106, 170-180.	2.5	26
51	Genotype-by-genotype specificity remains robust to average temperature variation in an aphid/endosymbiont/parasitoid system. <i>Journal of Evolutionary Biology</i> , 2013, 26, 1603-1610.	1.7	47
52	Comparing constitutive and induced costs of symbiont-conferred resistance to parasitoids in aphids. <i>Ecology and Evolution</i> , 2013, 3, 706-713.	1.9	71
53	Effects of Heat Shock on Resistance to Parasitoids and on Life History Traits in an Aphid/Endosymbiont System. <i>PLoS ONE</i> , 2013, 8, e75966.	2.5	16
54	Parasitoids as vectors of facultative bacterial endosymbionts in aphids. <i>Biology Letters</i> , 2012, 8, 613-615.	2.3	158

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55	Genomic basis of endosymbiont-conferred protection against an insect parasitoid. <i>Genome Research</i> , 2012, 22, 106-114.	5.5	91
56	Modeling the Ecology of Symbiont-Mediated Protection against Parasites. <i>American Naturalist</i> , 2012, 179, 595-605.	2.1	39
57	Strong specificity in the interaction between parasitoids and symbiont-protected hosts. <i>Journal of Evolutionary Biology</i> , 2012, 25, 2369-2375.	1.7	69
58	Development, specificity and sublethal effects of symbiont-conferred resistance to parasitoids in aphids. <i>Functional Ecology</i> , 2012, 26, 207-215.	3.6	106
59	Influence of vermicompost and cucumber cultivar on population growth of <i>Aphis gossypii</i> Glover. <i>Journal of Applied Entomology</i> , 2012, 136, 568-575.	1.8	11
60	On Genetic Specificity in Symbiont-Mediated Host-Parasite Coevolution. <i>PLoS Computational Biology</i> , 2012, 8, e1002633.	3.2	42
61	Only helpful when required: a longevity cost of harbouring defensive symbionts. <i>Journal of Evolutionary Biology</i> , 2011, 24, 1611-1617.	1.7	153
62	Climate effects on life cycle variation and population genetic architecture of the black bean aphid, <i>Aphis fabae</i> . <i>Molecular Ecology</i> , 2011, 20, 4165-4181.	3.9	33
63	CONTAGIOUS PARTHENOGENESIS, AUTOMIXIS, AND A SEX DETERMINATION MELTDOWN. <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 501-511.	2.3	31
64	Single-Locus Recessive Inheritance of Asexual Reproduction in a Parasitoid Wasp. <i>Current Biology</i> , 2011, 21, 433-437.	3.9	77
65	Invasiveness of an introduced species: the role of hybridization and ecological constraints. <i>Biological Invasions</i> , 2011, 13, 1901-1915.	2.4	12
66	Evolution of reproductive mode variation and host associations in a sexual-asexual complex of aphid parasitoids. <i>BMC Evolutionary Biology</i> , 2011, 11, 348.	3.2	53
67	Host-associated differentiation and evidence for sexual reproduction in Iranian populations of the cotton aphid, <i>Aphis gossypii</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2010, 134, 191-199.	1.4	12
68	Ample genetic variation but no evidence for genotype specificity in an all-parthenogenetic host-parasitoid interaction. <i>Journal of Evolutionary Biology</i> , 2010, 23, 578-585.	1.7	35
69	A strain of the bacterial symbiont <i>Regiella insecticola</i> protects aphids against parasitoids. <i>Biology Letters</i> , 2010, 6, 109-111.	2.3	217
70	Host genotype affects the relative success of competing lines of aphid parasitoids under superparasitism. <i>Ecological Entomology</i> , 2010, 35, 77-83.	2.2	19
71	GENOTYPIC VARIATION AND THE ROLE OF DEFENSIVE ENDOSYMBIONTS IN AN ALL-PARTHENOGENETIC HOST-PARASITOID INTERACTION. <i>Evolution; International Journal of Organic Evolution</i> , 2009, 63, 1439-1450.	2.3	129
72	Aphid genotypes vary in their response to the presence of fungal endosymbionts in host plants. <i>Journal of Evolutionary Biology</i> , 2009, 22, 1775-1780.	1.7	11

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73	Masked Damage: Mutational Load in Hemiclonal Water Frogs. , 2009, , 433-446.		11
74	Comparative population growth parameters of the two-spotted spider mite, <i>Tetranychus urticae</i> Koch (Acari: Tetranychidae), on different common bean cultivars. <i>Systematic and Applied Acarology</i> , 2009, 12, 83.	0.5	21
75	Genetic covariation between effectiveness and cost of defence in aphids. <i>Biology Letters</i> , 2008, 4, 674-676.	2.3	13
76	Limited scope for maternal effects in aphid defence against parasitoids. <i>Ecological Entomology</i> , 2008, 33, 189-196.	2.2	26
77	Genetic variation and covariation of aphid life-history traits across unrelated host plants. <i>Bulletin of Entomological Research</i> , 2008, 98, 543-553.	1.0	13
78	Genetic variation and covariation of susceptibility to parasitoids in the aphid <i>Myzus persicae</i> : no evidence for trade-offs. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 1089-1094.	2.6	64
79	Strong parasitoid-mediated selection in experimental populations of aphids. <i>Biology Letters</i> , 2007, 3, 667-669.	2.3	34
80	Microsatellite DNA markers for the aphid parasitoid <i>Lysiphlebus fabarum</i> and their applicability to related species. <i>Molecular Ecology Notes</i> , 2007, 7, 1080-1083.	1.7	19
81	Temporal dynamics of genotypic diversity reveal strong clonal selection in the aphid <i>Myzus persicae</i> . <i>Journal of Evolutionary Biology</i> , 2006, 19, 97-107.	1.7	67
82	When log-dwellers meet loggers: impacts of forest fragmentation on two endemic log-dwelling beetles in southeastern Australia. <i>Molecular Ecology</i> , 2006, 15, 1481-1492.	3.9	38
83	Geographic Parthenogenesis: Recurrent Patterns Down Under. <i>Current Biology</i> , 2006, 16, R641-R643.	3.9	9
84	POSITIVE GENETIC CORRELATIONS AMONG MAJOR LIFE-HISTORY TRAITS RELATED TO ECOLOGICAL SUCCESS IN THE APHID <i>MYZUS PERSICAE</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 1006-1015.	2.3	43
85	POSITIVE GENETIC CORRELATIONS AMONG MAJOR LIFE-HISTORY TRAITS RELATED TO ECOLOGICAL SUCCESS IN THE APHID <i>MYZUS PERSICAE</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 1006.	2.3	2
86	Positive genetic correlations among major life-history traits related to ecological success in the aphid <i>Myzus persicae</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 1006-15.	2.3	38
87	Cold tolerance in obligate and cyclical parthenogens of the peach-potato aphid, <i>Myzus persicae</i> . <i>Ecological Entomology</i> , 2004, 29, 498-505.	2.2	17
88	A genetic mechanism of species replacement in European waterfrogs?. <i>Conservation Genetics</i> , 2003, 4, 141-155.	1.5	46
89	Environmentally related patterns of reproductive modes in the aphid <i>Myzus persicae</i> and the predominance of two "superclones"™ in Victoria, Australia. <i>Molecular Ecology</i> , 2003, 12, 3493-3504.	3.9	155
90	Explaining the coexistence of asexuals with their sexual progenitors: no evidence for general-purpose genotypes in obligate parthenogens of the peach-potato aphid, <i>Myzus persicae</i> . <i>Ecology Letters</i> , 2003, 6, 1091-1098.	6.4	56

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91	Mark-recapture estimates of daily survival rates of two damselflies (<i>Coenagrion puella</i> and <i>Ischnura</i>) Tj ETQq1 1 0.784314 rgBT/Overl	1.0	20
92	Non-hybrid offspring from matings between hemiclinal hybrid waterfrogs suggest occasional recombination between clonal genomes. <i>Ecology Letters</i> , 2001, 4, 628-636.	6.4	37
93	Heterozygous fitness effects of clonally transmitted genomes in waterfrogs. <i>Journal of Evolutionary Biology</i> , 2001, 14, 602-610.	1.7	22
94	FIXATION OF DELETERIOUS MUTATIONS IN CLONAL LINEAGES: EVIDENCE FROM HYBRIDOGNETIC FROGS. <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 2319-2332.	2.3	66
95	FIXATION OF DELETERIOUS MUTATIONS IN CLONAL LINEAGES: EVIDENCE FROM HYBRIDOGNETIC FROGS. <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 2319.	2.3	2
96	Forum: Genomic imprinting or mutation and interclonal selection in triploid hybrid frogs? A comment on Tunner. <i>Amphibia - Reptilia</i> , 2001, 22, 263-265.	0.5	4
97	Mark-recapture estimates of daily survival rates of two damselflies (<i>Coenagrion puella</i> and <i>Ischnura</i>) Tj ETQq1 1 0.784314 rgBT/Overl	1.0	29
98	Aggression and competition for shelter between a native and an introduced crayfish in Europe. <i>Freshwater Biology</i> , 1999, 42, 111-119.	2.4	121
99	Variation and covariation of life history traits in aphids are related to infection with the facultative bacterial endosymbiont <i>Hamiltonella defensa</i> . <i>Biological Journal of the Linnean Society</i> , 0, 100, 237-247.	1.6	25
100	Phylogeography and Cryptic Species Structure of a Locally Adapted Parasite in New Zealand. <i>Molecular Ecology</i> , 0, , .	3.9	3