

# George E Heimpel

## List of Publications by Year in descending order

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120  
papers

7,593  
citations

57758

44  
h-index

58581

82  
g-index

123  
all docs

123  
docs citations

123  
times ranked

4712  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ecology and Management of the Soybean Aphid in North America. <i>Annual Review of Entomology</i> , 2011, 56, 375-399.	11.8	458
2	Life-history strategies in parasitoid wasps: a comparative analysis of <i>ovigeny</i> <sup>TM</sup> . <i>Journal of Animal Ecology</i> , 2001, 70, 442-458.	2.8	431
3	Crop pests and predators exhibit inconsistent responses to surrounding landscape composition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7863-E7870.	7.1	401
4	Sex Determination in the Hymenoptera. <i>Annual Review of Entomology</i> , 2008, 53, 209-230.	11.8	384
5	THE EVOLUTION OF HOST-FEEDING BEHAVIOUR IN INSECT PARASITOIDS. <i>Biological Reviews</i> , 1996, 71, 373-400.	10.4	233
6	Honeydew as a food source for natural enemies: Making the best of a bad meal?. <i>Biological Control</i> , 2008, 45, 176-184.	3.0	223
7	Adult feeding and lifetime reproductive success in the parasitoid <i>Aphytis melinus</i> . <i>Entomologia Experimentalis Et Applicata</i> , 1997, 83, 305-315.	1.4	203
8	Effects of sugar feeding on carbohydrate and lipid metabolism in a parasitoid wasp. <i>Physiological Entomology</i> , 2000, 25, 17-26.	1.5	182
9	Comparing floral nectar and aphid honeydew diets on the longevity and nutrient levels of a parasitoid wasp. <i>Entomologia Experimentalis Et Applicata</i> , 2004, 111, 189-199.	1.4	181
10	PCR-based gut content analysis of insect predators: using ribosomal ITS-1 fragments from prey to estimate predation frequency. <i>Molecular Ecology</i> , 2001, 10, 2059-2067.	3.9	173
11	The Soybean Aphid in China: A Historical Review. <i>Annals of the Entomological Society of America</i> , 2004, 97, 209-218.	2.5	169
12	Egg Limitation in Parasitoids: A Review of the Evidence and a Case Study. <i>Biological Control</i> , 1998, 11, 160-168.	3.0	166
13	Multifaceted determinants of host specificity in an aphid parasitoid. <i>Oecologia</i> , 2009, 160, 387-398.	2.0	166
14	Floral resources impact longevity and oviposition rate of a parasitoid in the field. <i>Journal of Animal Ecology</i> , 2008, 77, 565-572.	2.8	146
15	European buckthorn and Asian soybean aphid as components of an extensive invasional meltdown in North America. <i>Biological Invasions</i> , 2010, 12, 2913-2931.	2.4	137
16	Egg maturation, egg resorption and the costliness of transient egg limitation in insects. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2000, 267, 1565-1573.	2.6	130
17	Impact of flowering buckwheat on Lepidopteran cabbage pests and their parasitoids at two spatial scales. <i>Biological Control</i> , 2005, 34, 290-301.	3.0	123
18	COMMUNITY GENETICS: EXPANDING THE SYNTHESIS OF ECOLOGY AND GENETICS. <i>Ecology</i> , 2003, 84, 545-558.	3.2	110

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19	Sex Ratios of Commercially Reared Biological Control Agents. <i>Biological Control</i> , 2000, 19, 77-93.	3.0	106
20	Egg Limitation, Host Quality, and Dynamic Behavior by a Parasitoid in the Field. <i>Ecology</i> , 1996, 77, 2410-2420.	3.2	101
21	The Ubiquity of Intraguild Predation among Predatory Arthropods. <i>PLoS ONE</i> , 2011, 6, e28061.	2.5	95
22	Prospects for Importation Biological Control of the Soybean Aphid: Anticipating Potential Costs and Benefits. <i>Annals of the Entomological Society of America</i> , 2004, 97, 249-258.	2.5	94
23	Indirect interactions between an introduced and a native ladybird beetle species mediated by a shared parasitoid. <i>Biological Control</i> , 2002, 25, 224-230.	3.0	90
24	Specialisation of bacterial endosymbionts that protect aphids from parasitoids. <i>Ecological Entomology</i> , 2014, 39, 736-739.	2.2	85
25	A "Goldilocks" hypothesis for dispersal of biological control agents. <i>BioControl</i> , 2011, 56, 441-450.	2.0	84
26	Influence of floral resources on sugar feeding and nutrient dynamics of a parasitoid in the field. <i>Ecological Entomology</i> , 2006, 31, 470-480.	2.2	81
27	Effects of parasitoid fecundity and host resistance on indirect interactions among hosts sharing a parasitoid. <i>Ecology Letters</i> , 2003, 6, 556-566.	6.4	77
28	Host phylogeny and specialisation in parasitoids. <i>Ecology Letters</i> , 2012, 15, 453-460.	6.4	75
29	Worldwide Populations of the Aphid <i>Aphis craccivora</i> Are Infected with Diverse Facultative Bacterial Symbionts. <i>Microbial Ecology</i> , 2014, 67, 195-204.	2.8	74
30	Sugar feeding by the aphid parasitoid <i>Binodoxys communis</i> : How does honeydew compare with other sugar sources?. <i>Journal of Insect Physiology</i> , 2008, 54, 481-491.	2.0	73
31	Shifting paradigms in the history of classical biological control. <i>BioControl</i> , 2018, 63, 27-37.	2.0	72
32	Parasitoid nutritional ecology in a community context: the importance of honeydew and implications for biological control. <i>Current Opinion in Insect Science</i> , 2016, 14, 100-104.	4.4	69
33	Soil-Applied Imidacloprid Is Translocated to Nectar and Kills Nectar-Feeding <i>Anagyrus pseudococci</i> (Girault) (Hymenoptera: Encyrtidae). <i>Environmental Entomology</i> , 2007, 36, 1238-1245.	1.4	68
34	Perennial Grain and Oilseed Crops. <i>Annual Review of Plant Biology</i> , 2016, 67, 703-729.	18.7	68
35	Effects of Partial Sugar Deprivation on Lifespan and Carbohydrate Mobilization in the Parasitoid <i>Macrocentrus grandii</i> (Hymenoptera: Braconidae). <i>Annals of the Entomological Society of America</i> , 2001, 94, 909-916.	2.5	65
36	Flight Performance of the Soybean Aphid, <i>Aphis glycines</i> (Hemiptera: Aphididae) Under Different Temperature and Humidity Regimens. <i>Environmental Entomology</i> , 2008, 37, 301-306.	1.4	64

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37	Cryptic Species of Parasitoids Attacking the Soybean Aphid (Hemiptera: Aphididae) in Asia: <i>Binodoxys communis</i> and <i>Binodoxys koreanus</i> (Hymenoptera: Braconidae: Aphidiinae). <i>Annals of the Entomological Society of America</i> , 2009, 102, 925-936.	2.5	63
38	Gut sugar analysis in field-caught parasitoids: Adapting methods originally developed for biting flies. <i>International Journal of Pest Management</i> , 2004, 50, 193-198.	1.8	60
39	Factors Limiting the Spread of the Protective Symbiont <i>Hamiltonella defensa</i> in <i>Aphis craccivora</i> Aphids. <i>Applied and Environmental Microbiology</i> , 2014, 80, 5818-5827.	3.1	58
40	Reproductive Isolation and Genetic Variation between Two Strains of <i>Bracon hebetor</i> (Hymenoptera: Tj ETQq 0,0 0 rgBT /Overlock	3.0	53
41	Reproductive senescence and dynamic oviposition behaviour in insects. <i>Evolutionary Ecology</i> , 1998, 12, 871-879.	1.2	53
42	Environmental Consequences of Invasive Species: Greenhouse Gas Emissions of Insecticide Use and the Role of Biological Control in Reducing Emissions. <i>PLoS ONE</i> , 2013, 8, e72293.	2.5	50
43	Prospects for Importation Biological Control of the Soybean Aphid: Anticipating Potential Costs and Benefits. <i>Annals of the Entomological Society of America</i> , 2004, 97, 249-258.	2.5	49
44	Trends in biological control: public interest, international networking and research direction. <i>BioControl</i> , 2018, 63, 11-26.	2.0	48
45	Competitive interactions between an exotic and a native ladybeetle: a field cage study. <i>Entomologia Experimentalis Et Applicata</i> , 2004, 111, 19-28.	1.4	46
46	Relationship of Soybean Aphid (Hemiptera: Aphididae) to Soybean Plant Nutrients, Landscape Structure, and Natural Enemies. <i>Environmental Entomology</i> , 2010, 39, 31-41.	1.4	45
47	Experimental Support for Multiple-Locus Complementary Sex Determination in the Parasitoid <i>Cotesia vestalis</i> . <i>Genetics</i> , 2008, 180, 1525-1535.	2.9	44
48	Transient host paralysis as a means of reducing self-superparasitism in koinobiont endoparasitoids. <i>Journal of Insect Physiology</i> , 2009, 55, 321-327.	2.0	44
49	Survival of Diploid Males in <i>Bracon</i> sp. near <i>hebetor</i> (Hymenoptera: Braconidae). <i>Annals of the Entomological Society of America</i> , 1999, 92, 110-116.	2.5	43
50	Virginity and the cost of insurance in highly inbred Hymenoptera. <i>Ecological Entomology</i> , 1994, 19, 299-302.	2.2	38
51	Physical and ant-mediated refuges from parasitism: Implications for non-target effects in biological control. <i>Biological Control</i> , 2007, 40, 306-313.	3.0	38
52	Trade-Offs Between Flight and Fecundity in the Soybean Aphid (Hemiptera: Aphididae). <i>Journal of Economic Entomology</i> , 2009, 102, 133-138.	1.8	37
53	Diversity of sex-determining alleles in <i>Bracon hebetor</i> . <i>Heredity</i> , 1999, 82, 282-291.	2.6	36
54	Flight Performance of the Soybean Aphid, <i>Aphis glycines</i> (Hemiptera: Aphididae) Under Different Temperature and Humidity Regimens. <i>Environmental Entomology</i> , 2008, 37, 301-306.	1.4	36

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55	The Endosymbiont <i>Arsenophonus</i> Is Widespread in Soybean Aphid, <i>Aphis glycines</i> , but Does Not Provide Protection from Parasitoids or a Fungal Pathogen. <i>PLoS ONE</i> , 2013, 8, e62145.	2.5	35
56	Dynamic egg maturation strategies in an aphid parasitoid. <i>Physiological Entomology</i> , 2007, 32, 143-149.	1.5	34
57	On-farm evaluation of a fall-seeded rye cover crop for suppression of soybean aphid (Hemiptera: Auchenorrhyncha: Pemphiliinae) ( <i>Aphis glycines</i> ) in Iowa. <i>Journal of Economic Entomology</i> , 2014, 47, 103-111.	1.3	34
58	Effect of floral nectar, water, and feeding frequency on <i>Cotesia glomerata</i> longevity. <i>BioControl</i> , 2008, 53, 289-294.	2.0	33
59	Invasion of an Avian Nest Parasite, <i>Philornis downsi</i> , to the Galapagos Islands: Colonization History, Adaptations to Novel Ecosystems, and Conservation Challenges. <i>Social and Ecological Interactions in the Galapagos Islands</i> , 2018, , 213-266.	0.4	33
60	Sex determination meltdown upon biological control introduction of the parasitoid <i>Cotesia rubecula</i> . <i>Evolutionary Applications</i> , 2012, 5, 444-454.	3.1	32
61	Linking parasitoid nectar feeding and dispersal in conservation biological control. <i>Biological Control</i> , 2019, 132, 36-41.	3.0	31
62	Response of the soybean aphid parasitoid <i>Binodoxys communis</i> to olfactory cues from target and non-target host-plant complexes. <i>Entomologia Experimentalis Et Applicata</i> , 2007, 123, 149-158.	1.4	30
63	Potential exposure of a classical biological control agent of the soybean aphid, <i>Aphis glycines</i> , on non-target aphids in North America. <i>Biological Invasions</i> , 2009, 11, 857-871.	2.4	30
64	Reproductive compatibility and genetic variation between two strains of <i>Aphelinus albipodus</i> (Hymenoptera: Aphelinidae), a parasitoid of the soybean aphid, <i>Aphis glycines</i> (Homoptera: Aphididae). <i>Biological Control</i> , 2004, 31, 311-319.	3.0	29
65	Egg load dynamics and the risk of egg and time limitation experienced by an aphid parasitoid in the field. <i>Ecology and Evolution</i> , 2014, 4, 1739-1750.	1.9	29
66	Combined effects of host-plant resistance and intraguild predation on the soybean aphid parasitoid <i>Binodoxys communis</i> in the field. <i>Biological Control</i> , 2012, 60, 16-25.	3.0	27
67	Best practices for the use and exchange of invertebrate biological control genetic resources relevant for food and agriculture. <i>BioControl</i> , 2018, 63, 149-154.	2.0	27
68	Is parasitoid acceptance of different host species dynamic?. <i>Functional Ecology</i> , 2013, 27, 1201-1211.	3.6	26
69	Factors Affecting the Flight Capacity of <i>Tetrastichus planipennis</i> (Hymenoptera: Braconidae). <i>Journal of Economic Entomology</i> , 2014, 47, 103-111.	1.4	26
70	Intraspecific variation in facultative symbiont infection among native and exotic pest populations: Potential implications for biological control. <i>Biological Control</i> , 2018, 116, 27-35.	3.0	26
71	Additive negative effects of <i>Philornis</i> nest parasitism on small and declining Neotropical bird populations. <i>Bird Conservation International</i> , 2019, 29, 339-360.	1.3	25
72	Linking risk and efficacy in biological control host-parasitoid models. <i>Biological Control</i> , 2015, 90, 49-60.	3.0	24

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73	Life Cycle and Host Specificity of the Parasitoid <i>Conura annulifera</i> (Hymenoptera: Chalcididae), a Potential Biological Control Agent of <i>Philornis downsi</i> (Diptera: Muscidae) in the Galpagos Islands. <i>Annals of the Entomological Society of America</i> , 2017, 110, 317-328.	2.5	24
74	Continental-scale suppression of an invasive pest by a host-specific parasitoid underlines both environmental and economic benefits of arthropod biological control. <i>PeerJ</i> , 2018, 6, e5796.	2.0	23
75	Could increased understanding of foraging behavior help to predict the success of biological control?. <i>Current Opinion in Insect Science</i> , 2018, 27, 26-31.	4.4	22
76	The influence of aphid-produced honeydew on parasitoid fitness and nutritional state: A comparative study. <i>Basic and Applied Ecology</i> , 2018, 29, 55-68.	2.7	22
77	Components of the Functional Response of <i>Perillus bioculatus</i> (Hemiptera: Pentatomidae). <i>Environmental Entomology</i> , 1994, 23, 855-859.	1.4	21
78	The defensive aphid symbiont <i>Hamiltonella defensa</i> affects host quality differently for <i>Aphelinus glycinis</i> versus <i>Aphelinus atriplicis</i> . <i>Biological Control</i> , 2018, 116, 3-9.	3.0	21
79	Impact of the parasitoid <i>Aphelinus certus</i> on soybean aphid populations. <i>Biological Control</i> , 2018, 127, 17-24.	3.0	20
80	A matrix model describing host parasitoid population dynamics: The case of <i>Aphelinus certus</i> and soybean aphid. <i>PLoS ONE</i> , 2019, 14, e0218217.	2.5	20
81	Natural Enemies and the Evolution of Resistance to Transgenic Insecticidal Crops by Pest Insects: The Role of Egg Mortality. <i>Environmental Entomology</i> , 2005, 34, 512-526.	1.4	19
82	Host specificity of <i>Aphelinus</i> species collected from soybean aphid in Asia. <i>Biological Control</i> , 2017, 115, 55-73.	3.0	18
83	Effect of parasitism on flight behavior of the soybean aphid, <i>Aphis glycines</i> . <i>Biological Control</i> , 2009, 51, 475-479.	3.0	16
84	Host range and community structure of avian nest parasites in the genus <i>Philornis</i> (Diptera: Muscidae) on the island of Trinidad. <i>Ecology and Evolution</i> , 2015, 5, 3695-3703.	1.9	16
85	Parasitoidinduced transgenerational fecundity compensation in an aphid. <i>Entomologia Experimentalis Et Applicata</i> , 2016, 159, 197-206.	1.4	16
86	Invasive Parasites and the Fate of Darwin's Finches in the Galapagos Islands: The Case of the Vegetarian Finch ( <i>Platyspiza crassirostris</i> ). <i>Wilson Journal of Ornithology</i> , 2017, 129, 345-349.	0.2	15
87	Counties not countries: Variation in host specificity among populations of an aphid parasitoid. <i>Evolutionary Applications</i> , 2019, 12, 815-829.	3.1	15
88	Soybean aphid biotype 1 genome: Insights into the invasive biology and adaptive evolution of a major agricultural pest. <i>Insect Biochemistry and Molecular Biology</i> , 2020, 120, 103334.	2.7	15
89	Extraordinary sex ratios for extraordinary reasons. <i>Trends in Ecology and Evolution</i> , 1997, 12, 298-299.	8.7	14
90	Parasitism of Autumnal Morphs of the Soybean Aphid (Hemiptera: Aphididae) by <i>Binodoxys communis</i> (Hymenoptera: Braconidae) on Buckthorn. <i>Annals of the Entomological Society of America</i> , 2011, 104, 935-944.	2.5	12

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91	The evolution of parasitoid fecundity: a paradigm under scrutiny. <i>Ecology Letters</i> , 2012, 15, 357-364.	6.4	12
92	Sex-specific dispersal by a parasitoid wasp in the field. <i>Entomologia Experimentalis Et Applicata</i> , 2016, 159, 252-259.	1.4	12
93	Balancing selection maintains sex determining alleles in multiple-locus complementary sex determination. <i>Evolution; International Journal of Organic Evolution</i> , 2017, 71, 1246-1257.	2.3	10
94	Broken wing fringe setae as a relative estimate of parasitoid age. <i>Entomologia Experimentalis Et Applicata</i> , 2006, 121, 87-92.	1.4	9
95	Competition and brood reduction: testing alternative models of clutch-size evolution in parasitoids. <i>Behavioral Ecology</i> , 2009, 20, 403-409.	2.2	9
96	Density-dependent lifespan and estimation of life expectancy for a parasitoid with implications for population dynamics. <i>Oecologia</i> , 2020, 194, 311-320.	2.0	9
97	Neonicotinoids from coated seeds toxic for honeydew-feeding biological control agents. <i>Environmental Pollution</i> , 2021, 289, 117813.	7.5	9
98	Determinants of egg load in the soybean aphid parasitoid <i>Binodoxys communis</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2010, 136, 254-261.	1.4	8
99	Mind the Gap: the evolution of oviposition site and specialization in the parasitoid superfamily Chalcidoidea. <i>Biological Journal of the Linnean Society</i> , 2018, 124, 213-227.	1.6	8
100	Environmentally cued hatching in the bird-parasitic nest fly <i>Philornis downsi</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2018, 166, 752-760.	1.4	8
101	Population structure of a nest parasite of Darwin's finches within its native and invasive ranges. <i>Conservation Genetics</i> , 2021, 22, 11-22.	1.5	8
102	A phylogenetic perspective on parasitoid host ranges with implications for biological control. <i>Current Opinion in Insect Science</i> , 2021, 44, 95-100.	4.4	8
103	COMPLEMENTARY SEX DETERMINATION IN HYMENOPTERAN PARASITIDS AND ITS IMPLICATIONS FOR BIOLOGICAL CONTROL. <i>Insect Science</i> , 2003, 10, 81-93.	3.0	7
104	Description of <i>Brachymeria philornisae</i> sp. n. (Hymenoptera: Chalcididae), a parasitoid of the bird parasite <i>Philornis trinitensis</i> (Diptera: Muscidae) in Tobago, with a review of the sibling species. <i>Zootaxa</i> , 2017, 4242, 34.	0.5	7
105	Ecological dissociation and re-association with a superior competitor alters host selection behavior in a parasitoid wasp. <i>Oecologia</i> , 2019, 191, 261-270.	2.0	7
106	Interspecific differences in milkweeds alter predator density and the strength of trophic cascades. <i>Arthropod-Plant Interactions</i> , 2016, 10, 249-261.	1.1	6
107	Shifting microbiomes complement life stage transitions and diet of the bird parasite <i>Philornis downsi</i> from the Galapagos Islands. <i>Environmental Microbiology</i> , 2021, 23, 5014-5029.	3.8	6
108	Entomophagous insects: progress in evolutionary and applied ecology. <i>Trends in Ecology and Evolution</i> , 1995, 10, 96-97.	8.7	5

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109	Effect of <i>Binodoxys communis</i> parasitism on flight behavior of the soybean aphid, <i>Aphis glycines</i> . <i>Biological Control</i> , 2012, 62, 10-15.	3.0	4
110	Editorial overview: Parasites/parasitoids/biological control: Communities without parasitoids?. <i>Current Opinion in Insect Science</i> , 2016, 14, viii-x.	4.4	4
111	A field-based assessment of the parasitoid <i>Aphelinus certus</i> as a biological control agent of soybean aphid in North America. <i>Biological Control</i> , 2020, 146, 104284.	3.0	4
112	Parasitoid-mediated indirect interactions between unsuitable and suitable hosts generate apparent predation in microcosm and modeling studies. <i>Ecology and Evolution</i> , 2021, 11, 2449-2460.	1.9	4
113	Behavior of the Avian Parasite <i>Philornis downsi</i> (Diptera: Muscidae) in and Near Host Nests in the Galapagos Islands. <i>Journal of Insect Behavior</i> , 2021, 34, 296-311.	0.7	4
114	Diet breadth of the aphid predator <i>Chrysoperla rufilabris</i> Burmeister (Neuroptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td (	1.0	4
115	Specificity within bird-parasite-parasitoid food webs: A novel approach for evaluating potential biological control agents of the avian vampire fly. <i>Journal of Applied Ecology</i> , 2022, 59, 2189-2198.	4.0	4
116	The Soybean Aphid: a Review of Its Biology and Management. <i>Annals of the Entomological Society of America</i> , 2004, 97, 203-203.	2.5	3
117	High Hyperparasitism of <i>Cotesia rubecula</i> (Hymenoptera: Braconidae) in Minnesota and Massachusetts. <i>Journal of the Kansas Entomological Society</i> , 2016, 89, 385-389.	0.2	3
118	The effects of host plant species on adult oviposition and larval performance of the aphid predator <i>Aphidoletes aphidimyza</i> . <i>Ecological Entomology</i> , 2020, 45, 606-616.	2.2	2
119	Persistence of the invasive bird-parasitic fly <i>Philornis downsi</i> over the host interbreeding period in the Galapagos Islands. <i>Scientific Reports</i> , 2022, 12, 2325.	3.3	1
120	Use of artificial nest boxes by two species of small, arboreal mammals in ecuadorian tropical dry forest. <i>Neotropical Biodiversity</i> , 2022, 8, 108-111.	0.5	0