

Kenneth Wilson

List of Publications by Year in descending order

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102
papers

6,324
citations

94433

37
h-index

76900

74
g-index

107
all docs

107
docs citations

107
times ranked

6685
citing authors

#	ARTICLE	IF	CITATIONS
1	Parasites as a Viability Cost of Sexual Selection in Natural Populations of Mammals. <i>Science</i> , 2002, 297, 2015-2018.	12.6	550
2	Statistical analysis of sex ratios: an introduction. , 2002, , 48-92.		355
3	Long-range seasonal migration in insects: mechanisms, evolutionary drivers and ecological consequences. <i>Ecology Letters</i> , 2015, 18, 287-302.	6.4	353
4	Dominant rams lose out by sperm depletion. <i>Nature</i> , 2001, 409, 681-682.	27.8	342
5	Melanism and disease resistance in insects. <i>Ecology Letters</i> , 2001, 4, 637-649.	6.4	341
6	Coping with crowds: Density-dependent disease resistance in desert locusts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 5471-5475.	7.1	278
7	Macronutrient balance mediates trade-offs between immune function and life history traits. <i>Functional Ecology</i> , 2011, 25, 186-198.	3.6	254
8	Bacterial pathogens in wild birds: a review of the frequency and effects of infection. <i>Biological Reviews</i> , 2009, 84, 349-373.	10.4	245
9	Dietary protein quality influences melanization and immune function in an insect. <i>Functional Ecology</i> , 2008, 22, 1052-1061.	3.6	227
10	Can the protein costs of bacterial resistance be offset by altered feeding behaviour?. <i>Journal of Animal Ecology</i> , 2009, 78, 437-446.	2.8	194
11	Density-dependent prophylaxis: evidence from Lepidoptera-baculovirus interactions?. <i>Ecological Entomology</i> , 1998, 23, 100-101.	2.2	158
12	Fifty important research questions in microbial ecology. <i>FEMS Microbiology Ecology</i> , 2017, 93, .	2.7	138
13	Nutritional Immunology: A Multi-Dimensional Approach. <i>PLoS Pathogens</i> , 2011, 7, e1002223.	4.7	136
14	Integrating nutrition and immunology: A new frontier. <i>Journal of Insect Physiology</i> , 2013, 59, 130-137.	2.0	125
15	Group living and investment in immune defence: an interspecific analysis. <i>Journal of Animal Ecology</i> , 2003, 72, 133-143.	2.8	119
16	Genetic structure and insecticide resistance characteristics of fall armyworm populations invading China. <i>Molecular Ecology Resources</i> , 2020, 20, 1682-1696.	4.8	116
17	<i>Wolbachia</i> in a major African crop pest increases susceptibility to viral disease rather than protects. <i>Ecology Letters</i> , 2012, 15, 993-1000.	6.4	115
18	Dynamics of macronutrient self-medication and illness-induced anorexia in virally infected insects. <i>Journal of Animal Ecology</i> , 2014, 83, 245-255.	2.8	108

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19	Honeybee nutrition is linked to landscape composition. <i>Ecology and Evolution</i> , 2014, 4, 4195-4206.	1.9	101
20	Selection for cuticular melanism reveals immune function and life-history trade-offs in <i>Spodoptera littoralis</i> . <i>Journal of Evolutionary Biology</i> , 2008, 21, 1744-1754.	1.7	91
21	The use of indigenous ecological resources for pest control in Africa. <i>Food Security</i> , 2014, 6, 71-86.	5.3	91
22	Nutritional composition of honey bee food stores vary with floral composition. <i>Oecologia</i> , 2017, 185, 749-761.	2.0	90
23	Densovirus Is a Mutualistic Symbiont of a Global Crop Pest (<i>Helicoverpa armigera</i>) and Protects against a Baculovirus and Bt Biopesticide. <i>PLoS Pathogens</i> , 2014, 10, e1004490.	4.7	85
24	Macronutrients mediate the functional relationship between <i>Drosophila</i> and <i>Wolbachia</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20142029.	2.6	73
25	Heritable variation in resistance to gastro-intestinal nematodes in an unmanaged mammal population. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1999, 266, 1283-1290.	2.6	71
26	The tethered flight technique as a tool for studying life-history strategies associated with migration in insects. <i>Ecological Entomology</i> , 2018, 43, 397-411.	2.2	67
27	Factors affecting egg maturation in the bean weevil <i>Callosobruchus maculatus</i> . <i>Physiological Entomology</i> , 1989, 14, 115-126.	1.5	65
28	Testes size, testosterone production and reproductive behaviour in a natural mammalian mating system. <i>Journal of Animal Ecology</i> , 2012, 81, 296-305.	2.8	63
29	Pathogen persistence in migratory insects: high levels of vertically-transmitted virus infection in field populations of the African armyworm. <i>Evolutionary Ecology</i> , 2010, 24, 147-160.	1.2	59
30	Differences in the progress of the biopesticide revolution between the EU and other major crop-growing regions. <i>Pest Management Science</i> , 2017, 73, 2203-2208.	3.4	59
31	Hosts use altered macronutrient intake to circumvent parasite-induced reduction in fecundity. <i>International Journal for Parasitology</i> , 2011, 41, 43-50.	3.1	58
32	Diet modulates the relationship between immune gene expression and functional immune responses. <i>Insect Biochemistry and Molecular Biology</i> , 2019, 109, 128-141.	2.7	58
33	Bacterial communities associated with honeybee food stores are correlated with land use. <i>Ecology and Evolution</i> , 2018, 8, 4743-4756.	1.9	52
34	Egg laying decisions by the bean weevil <i>Callosobruchus maculatus</i> . <i>Ecological Entomology</i> , 1988, 13, 107-118.	2.2	51
35	Diversity and temporal stability of bacterial communities in a model passerine bird, the zebra finch. <i>Molecular Ecology</i> , 2010, 19, 5531-5544.	3.9	48
36	Evolution of clutch size in insects. I. A review of static optimality models. <i>Journal of Evolutionary Biology</i> , 1994, 7, 339-363.	1.7	46

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37	Behavioral Microbiomics: A Multi-Dimensional Approach to Microbial Influence on Behavior. <i>Frontiers in Microbiology</i> , 2015, 6, 1359.	3.5	44
38	Macronutrients modulate survival to infection and immunity in <i>Drosophila</i> . <i>Journal of Animal Ecology</i> , 2020, 89, 460-470.	2.8	44
39	Locusts increase carbohydrate consumption to protect against a fungal biopesticide. <i>Journal of Insect Physiology</i> , 2014, 69, 27-34.	2.0	38
40	Novel partiti-like viruses are conditional mutualistic symbionts in their normal lepidopteran host, African armyworm, but parasitic in a novel host, Fall armyworm. <i>PLoS Pathogens</i> , 2020, 16, e1008467.	4.7	34
41	Evaluation of <i>Spodoptera exempta</i> nucleopolyhedrovirus (SpexNPV) for the field control of African armyworm (<i>Spodoptera exempta</i>) in Tanzania. <i>Crop Protection</i> , 2008, 27, 17-24.	2.1	33
42	Male-killing <i>Wolbachia</i> and mitochondrial selective sweep in a migratory African insect. <i>BMC Evolutionary Biology</i> , 2012, 12, 204.	3.2	33
43	Survival costs of reproduction are mediated by parasite infection in wild Soay sheep. <i>Ecology Letters</i> , 2019, 22, 1203-1213.	6.4	30
44	Life history correlates of fecal bacterial species richness in a wild population of the blue tit <i>Cyanistes caeruleus</i> . <i>Ecology and Evolution</i> , 2015, 5, 821-835.	1.9	29
45	Seasonal and Geographical Variation in the Migratory Potential of Outbreak Populations of the African Armyworm Moth, <i>Spodoptera exempta</i> . <i>Journal of Animal Ecology</i> , 1993, 62, 169.	2.8	27
46	Density-related variation in vertical transmission of a virus in the African armyworm. <i>Oecologia</i> , 2008, 155, 237-246.	2.0	27
47	High levels of genetic diversity in <i>Spodoptera exempta</i> NPV from Tanzania. <i>Journal of Invertebrate Pathology</i> , 2010, 105, 190-193.	3.2	27
48	Updated assessment of potential biopesticide options for managing fall armyworm (<i>Spodoptera</i>) Tj ETQq 0 0 rgBT /Overlock 10 Tf 5	1.8	27
49	Evolution of clutch size in insects. II. A test of static optimality models using the beetle <i>Callosobruchus maculatus</i> (Coleoptera: Bruchidae). <i>Journal of Evolutionary Biology</i> , 1994, 7, 365-386.	1.7	25
50	Evidence for a pervasive "idling-mode" activity template in flying and pedestrian insects. <i>Royal Society Open Science</i> , 2015, 2, 150085.	2.4	24
51	Density-Dependent Prophylaxis in Insects. , 2009, , .		24
52	Modelling Density-Dependent Resistance in Insect-Pathogen Interactions. <i>Theoretical Population Biology</i> , 1999, 56, 163-181.	1.1	23
53	Climate change and the spread of infectious ideas. <i>Ecology</i> , 2009, 90, 901-902.	3.2	23
54	The effects of parasitic infection on the behaviour of an intermediate host, the American Cockroach, <i>Periplaneta americana</i> , infected with the Acanthocephalan, <i>Moniliformis moniliformis</i> . <i>Animal Behaviour</i> , 1986, 34, 942-944.	1.9	22

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55	Melanism in a larval Lepidoptera: repeatability and heritability of a dynamic trait. <i>Ecological Entomology</i> , 2006, 31, 196-205.	2.2	22
56	A novel formulation technology for baculoviruses protects biopesticide from degradation by ultraviolet radiation. <i>Scientific Reports</i> , 2020, 10, 13301.	3.3	22
57	Disease transmission in an extreme environment: Nematode parasites infect reindeer during the Arctic winter. <i>International Journal for Parasitology</i> , 2012, 42, 789-795.	3.1	20
58	Trade-offs and mixed infections in an obligate-killing insect pathogen. <i>Journal of Animal Ecology</i> , 2016, 85, 1200-1209.	2.8	20
59	Host-Parasite Interactions and the Evolution of Immune Defense. <i>Advances in the Study of Behavior</i> , 2013, , 81-174.	1.6	19
60	The Population Dynamical Implications of Male-Biased Parasitism in Different Mating Systems. <i>PLoS ONE</i> , 2007, 2, e624.	2.5	18
61	Pest Control: Biopesticides' Potential. <i>Science</i> , 2013, 342, 799-799.	12.6	17
62	Characterization of a novel member of genus Iflavirus in <i>Helicoverpa armigera</i> . <i>Journal of Invertebrate Pathology</i> , 2017, 144, 65-73.	3.2	17
63	Adaptations to the Arctic: low-temperature development and cold tolerance in the free-living stages of a parasitic nematode from Svalbard. <i>Polar Biology</i> , 2013, 36, 997-1005.	1.2	16
64	Migration and genetics of pre-reproductive period in the moth, <i>Spodoptera exempta</i> (African) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	2.6	14
65	Body condition constrains immune function in field populations of female Australian plague locust <i>Chortoicetes terminifera</i> . <i>Parasite Immunology</i> , 2015, 37, 233-241.	1.5	14
66	Wildlife disease ecology: from theory to policy. <i>Trends in Ecology and Evolution</i> , 1998, 13, 476-478.	8.7	12
67	Is <i>Heliothis virescens</i> (Lepidoptera: Noctuidae) a long-distance migrant?. <i>Bulletin of Entomological Research</i> , 2016, 106, 740-748.	1.0	12
68	Discovery and characterization of a novel picorna-like RNA virus in the cotton bollworm <i>Helicoverpa armigera</i> . <i>Journal of Invertebrate Pathology</i> , 2019, 160, 1-7.	3.2	12
69	Transgenerational effects modulate density-dependent prophylactic resistance to viral infection in a lepidopteran pest. <i>Biology Letters</i> , 2015, 11, 20150012.	2.3	11
70	Pollinator diseases: the <i>Bombus</i> - <i>Crithidia</i> system. , 2019, , 3-31.		11
71	Osmolality as a Novel Mechanism Explaining Diet Effects on the Outcome of Infection with a Blood Parasite. <i>Current Biology</i> , 2020, 30, 2459-2467.e3.	3.9	11
72	Development of a Real-Time qPCR Assay for Quantification of Covert Baculovirus Infections in a Major African Crop Pest. <i>Insects</i> , 2015, 6, 746-759.	2.2	10

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73	Reproductive effort influences intra-seasonal variation in parasite-specific antibody responses in wild Soay sheep. <i>Functional Ecology</i> , 2019, 33, 1307-1320.	3.6	10
74	Transparency and open processes in <i>Journal of Animal Ecology</i> . <i>Journal of Animal Ecology</i> , 2018, 87, 1-3.	2.8	9
75	Population dynamics in Soay sheep. , 2003, , 52-88.		8
76	Exposure to viral and bacterial pathogens among Soay sheep (<i>Ovis aries</i>) of the St Kilda archipelago. <i>Epidemiology and Infection</i> , 2016, 144, 1879-1888.	2.1	7
77	Structure and transcription of the <i>Helicoverpa armigera</i> densovirus (HaDV2) genome and its expression strategy in LD652 cells. <i>Virology Journal</i> , 2017, 14, 23.	3.4	7
78	Trans-generational viral transmission and immune priming are dose-dependent. <i>Journal of Animal Ecology</i> , 2021, 90, 1560-1569.	2.8	7
79	Development and application of a delayed-release anthelmintic intra-ruminal bolus system for experimental manipulation of nematode worm burdens. <i>Parasitology</i> , 2012, 139, 1086-1092.	1.5	6
80	Rapid spread of a densovirus in a major crop pest following wide-scale adoption of Bt-cotton in China. <i>ELife</i> , 2021, 10, .	6.0	6
81	Pest Control: Biopesticides' Potential. <i>Science</i> , 2013, 342, 799-799.	12.6	6
82	Little impact of overwinter parasitism on a free-ranging ungulate in the high Arctic. <i>Functional Ecology</i> , 2018, 32, 1046-1056.	3.6	5
83	Multi-trophic interactions and migration behaviour determine the ecology and evolution of parasite infection in monarch butterflies. , 2019, , 480-510.		5
84	Evolutionary ecology of insect host-parasite interactions: an ecological immunology perspective.. , 2005, , 289-246.		5
85	Origin of an Insular Population of the Wood Mouse Based on Parasitological Evidence. <i>Journal of Wildlife Diseases</i> , 1998, 34, 150-154.	0.8	4
86	Evolutionary Ecology: Old Ideas Percolate into Ecology. <i>Current Biology</i> , 2009, 19, R21-R23.	3.9	4
87	Publishing the best original research in animal ecology: looking forward from 2013. <i>Journal of Animal Ecology</i> , 2013, 82, 1-2.	2.8	4
88	Sexually transmitted infections in natural populations: what have we learnt from beetles and beyond?. , 2019, , 187-222.		4
89	Partitilike viruses from African armyworm increase larval and pupal mortality of a novel host: the Egyptian cotton leafworm. <i>Pest Management Science</i> , 2022, 78, 1529-1537.	3.4	4
90	The distribution of covert microbial natural enemies of a globally invasive crop pest, fall armyworm, in Africa: Enemy release and spillover events. <i>Journal of Animal Ecology</i> , 2022, 91, 1826-1841.	2.8	4

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91	Characterisation of a nucleopolyhedrovirus and Spiroplasma sp. bacterium associated with outbreaking populations of the Antler moth <i>Cerapteryx graminis</i> . <i>Journal of Invertebrate Pathology</i> , 2011, 107, 90-93.	3.2	3
92	Like a rolling stone: the dynamic world of animal ecology publishing. <i>Journal of Animal Ecology</i> , 2017, 86, 1-3.	2.8	3
93	Microsatellites reveal that genetic mixing commonly occurs between invasive fall armyworm populations in Africa. <i>Scientific Reports</i> , 2021, 11, 20757.	3.3	3
94	The times they are a'changing': evolution and revolution in animal ecology publishing. <i>Journal of Animal Ecology</i> , 2014, 83, 1-4.	2.8	2
95	And the winner of the inaugural Sidnie Manton Award is... <i>Journal of Animal Ecology</i> , 2018, 87, 527-529.	2.8	2
96	Genomic features of the polyphagous cotton leafworm <i>Spodoptera littoralis</i> . <i>BMC Genomics</i> , 2022, 23, 353.	2.8	2
97	A Novel method for estimating the pre-reproductive period of female african armyworm moths, <i>Spodoptera Exempta</i> . <i>International Journal of Tropical Insect Science</i> , 1993, 14, 325-331.	1.0	1
98	From population to individual host scale and back again: testing theories of infection and defence in the Soay sheep of St Kilda. , 2019, , 91-128.		1
99	Using insect baculoviruses to understand how population structure affects disease spread. , 2019, , 225-261.		1
100	Manipulating parasites in an Arctic herbivore: gastrointestinal nematodes and the population regulation of Svalbard reindeer. , 2019, , 397-426.		1
101	Correction: male-killing <i>Wolbachia</i> and mitochondrial selective sweep in a migratory African insect. <i>BMC Evolutionary Biology</i> , 2013, 13, 6.	3.2	0
102	Goodbye and farewell to print. <i>Journal of Animal Ecology</i> , 2019, 88, 4-7.	2.8	0