

Ary Anthony Hoffmann

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2154026/ary-anthony-hoffmann-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

800
papers

41,826
citations

94
h-index

175
g-index

863
ext. papers

49,448
ext. citations

4.9
avg, IF

7.97
L-index

#	Paper	IF	Citations
800	Climate change and evolutionary adaptation. <i>Nature</i> , 2011 , 470, 479-85	50.4	1862
799	Successful establishment of Wolbachia in Aedes populations to suppress dengue transmission. <i>Nature</i> , 2011 , 476, 454-7	50.4	984
798	The wMel Wolbachia strain blocks dengue and invades caged Aedes aegypti populations. <i>Nature</i> , 2011 , 476, 450-3	50.4	841
797	Adaptation of Drosophila to temperature extremes: bringing together quantitative and molecular approaches. <i>Journal of Thermal Biology</i> , 2003 , 28, 175-216	2.9	763
796	Towards an integrated framework for assessing the vulnerability of species to climate change. <i>PLoS Biology</i> , 2008 , 6, 2621-6	9.7	692
795	Assessing species vulnerability to climate change. <i>Nature Climate Change</i> , 2015 , 5, 215-224	21.4	576
794	The broad footprint of climate change from genes to biomes to people. <i>Science</i> , 2016 , 354,	33.3	573
793	Limits to the Adaptive Potential of Small Populations. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2006 , 37, 433-458	13.5	565
792	Heritable variation and evolution under favourable and unfavourable conditions. <i>Trends in Ecology and Evolution</i> , 1999 , 14, 96-101	10.9	551
791	Rapid spread of an inherited incompatibility factor in California Drosophila. <i>Nature</i> , 1991 , 353, 440-2	50.4	519
790	Assessing the benefits and risks of translocations in changing environments: a genetic perspective. <i>Evolutionary Applications</i> , 2011 , 4, 709-725	4.8	515
789	Building evolutionary resilience for conserving biodiversity under climate change. <i>Evolutionary Applications</i> , 2011 , 4, 326-37	4.8	491
788	A REASSESSMENT OF GENETIC LIMITS TO EVOLUTIONARY CHANGE. <i>Ecology</i> , 2005 , 86, 1371-1384	4.6	444
787	Revisiting the Impact of Inversions in Evolution: From Population Genetic Markers to Drivers of Adaptive Shifts and Speciation?. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2008 , 39, 21-42	13.5	414
786	Species borders: ecological and evolutionary perspectives. <i>Trends in Ecology and Evolution</i> , 1994 , 9, 223-7	10.9	413
785	Genetic isolation by environment or distance: which pattern of gene flow is most common?. <i>Evolution; International Journal of Organic Evolution</i> , 2014 , 68, 1-15	3.8	403
784	Upper thermal limits in terrestrial ectotherms: how constrained are they?. <i>Functional Ecology</i> , 2013 , 27, 934-949	5.6	397

783	Detecting genetic responses to environmental change. <i>Nature Reviews Genetics</i> , 2008 , 9, 421-32	30.1	372
782	Opposing clines for high and low temperature resistance in <i>Drosophila melanogaster</i> . <i>Ecology Letters</i> , 2002 , 5, 614-618	10	358
781	Geographical limits to species-range shifts are suggested by climate velocity. <i>Nature</i> , 2014 , 507, 492-5	50.4	343
780	Upper thermal limits of <i>Drosophila</i> are linked to species distributions and strongly constrained phylogenetically. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 16228-33	11.5	339
779	Adapting to climate change: a perspective from evolutionary physiology. <i>Climate Research</i> , 2010 , 43, 3-15	1.6	337
778	Fundamental evolutionary limits in ecological traits drive <i>Drosophila</i> species distributions. <i>Science</i> , 2009 , 325, 1244-6	33.3	327
777	From parasite to mutualist: rapid evolution of <i>Wolbachia</i> in natural populations of <i>Drosophila</i> . <i>PLoS Biology</i> , 2007 , 5, e114	9.7	312
776	A rapid shift in a classic clinal pattern in <i>Drosophila</i> reflecting climate change. <i>Science</i> , 2005 , 308, 691-3	33.3	309
775	UNIDIRECTIONAL INCOMPATIBILITY BETWEEN POPULATIONS OF <i>DROSOPHILA SIMULANS</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1986 , 40, 692-701	3.8	304
774	Integrating biophysical models and evolutionary theory to predict climatic impacts on species ranges: the dengue mosquito <i>Aedes aegypti</i> in Australia. <i>Functional Ecology</i> , 2009 , 23, 528-538	5.6	302
773	Genetic correlations, tradeoffs and environmental variation. <i>Heredity</i> , 2004 , 93, 241-8	3.6	294
772	Ecologically relevant measures of tolerance to potentially lethal temperatures. <i>Journal of Experimental Biology</i> , 2011 , 214, 3713-25	3	286
771	Low potential for climatic stress adaptation in a rainforest <i>Drosophila</i> species. <i>Science</i> , 2003 , 301, 100-2	33.3	271
770	Physiological climatic limits in <i>Drosophila</i> : patterns and implications. <i>Journal of Experimental Biology</i> , 2010 , 213, 870-80	3	264
769	Male size and mating success in <i>Drosophila melanogaster</i> and <i>D. pseudoobscura</i> under field conditions. <i>Animal Behaviour</i> , 1987 , 35, 468-476	2.8	263
768	What Can Plasticity Contribute to Insect Responses to Climate Change?. <i>Annual Review of Entomology</i> , 2016 , 61, 433-51	21.8	262
767	Predicting the effects of climate change on natural enemies of agricultural pests. <i>Biological Control</i> , 2010 , 52, 296-306	3.8	256
766	Genetics of climate change adaptation. <i>Annual Review of Genetics</i> , 2012 , 46, 185-208	14.5	252

765	Value of long-term ecological studies. <i>Austral Ecology</i> , 2012 , 37, 745-757	1.5	240
764	Incompatible and sterile insect techniques combined eliminate mosquitoes. <i>Nature</i> , 2019 , 572, 56-61	50.4	228
763	Environmental Stress as an Evolutionary Force. <i>BioScience</i> , 2000 , 50, 217	5.7	223
762	Climatic selection on genes and traits after a 100 year-old invasion: a critical look at the temperate-tropical clines in <i>Drosophila melanogaster</i> from eastern Australia. <i>Genetica</i> , 2007 , 129, 133-47	1.5	206
761	Desiccation and starvation resistance in <i>Drosophila</i> : patterns of variation at the species, population and intrapopulation levels. <i>Heredity</i> , 1999 , 83 (Pt 6), 637-43	3.6	205
760	Stability of the wMel Wolbachia Infection following invasion into <i>Aedes aegypti</i> populations. <i>PLoS Neglected Tropical Diseases</i> , 2014 , 8, e3115	4.8	204
759	Laboratory selection experiments using <i>Drosophila</i> : what do they really tell us?. <i>Trends in Ecology and Evolution</i> , 2000 , 15, 32-36	10.9	199
758	Naturally-occurring Wolbachia infection in <i>Drosophila simulans</i> that does not cause cytoplasmic incompatibility. <i>Heredity</i> , 1996 , 76 (Pt 1), 1-8	3.6	196
757	Phylogenetic constraints in key functional traits behind species' climate niches: patterns of desiccation and cold resistance across 95 <i>Drosophila</i> species. <i>Evolution; International Journal of Organic Evolution</i> , 2012 , 66, 3377-89	3.8	194
756	Local adaptation and cogradient selection in the alpine plant, <i>Poa hiemata</i> , along a narrow altitudinal gradient. <i>Evolution; International Journal of Organic Evolution</i> , 2007 , 61, 2925-41	3.8	189
755	Temporal expression of heat shock genes during cold stress and recovery from chill coma in adult <i>Drosophila melanogaster</i> . <i>FEBS Journal</i> , 2010 , 277, 174-85	5.7	186
754	Population dynamics of the Wolbachia infection causing cytoplasmic incompatibility in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 1998 , 148, 221-31	4	185
753	Costs and benefits of cold acclimation in field-released <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 216-21	11.5	184
752	Thermal tolerance in widespread and tropical <i>Drosophila</i> species: does phenotypic plasticity increase with latitude?. <i>American Naturalist</i> , 2011 , 178 Suppl 1, S80-96	3.7	182
751	Relative importance of plastic vs genetic factors in adaptive differentiation: geographical variation for stress resistance in <i>Drosophila melanogaster</i> from eastern Australia. <i>Functional Ecology</i> , 2005 , 19, 222-227	5.6	181
750	Chromosomal inversion polymorphisms and adaptation. <i>Trends in Ecology and Evolution</i> , 2004 , 19, 482-8	10.9	171
749	Evolution of phenotypic plasticity in extreme environments. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017 , 372,	5.8	162
748	Male age, host effects and the weak expression or non-expression of cytoplasmic incompatibility in <i>Drosophila</i> strains infected by maternally transmitted Wolbachia. <i>Genetical Research</i> , 2002 , 80, 79-87	1.1	161

747	An integrated approach to environmental stress tolerance and life-history variation: desiccation tolerance in <i>Drosophila</i> . <i>Biological Journal of the Linnean Society</i> , 1989 , 37, 117-136	1.9	161
746	Levels of variation in stress resistance in <i>Drosophila</i> among strains, local populations, and geographic regions: patterns for desiccation, starvation, cold resistance, and associated traits. <i>Evolution; International Journal of Organic Evolution</i> , 2001 , 55, 1621-30	3.8	159
745	Local introduction and heterogeneous spatial spread of dengue-suppressing <i>Wolbachia</i> through an urban population of <i>Aedes aegypti</i> . <i>PLoS Biology</i> , 2017 , 15, e2001894	9.7	155
744	Environmental monitoring using next generation sequencing: rapid identification of macroinvertebrate bioindicator species. <i>Frontiers in Zoology</i> , 2013 , 10, 45	2.8	153
743	Sensitivity to thermal extremes in Australian <i>Drosophila</i> implies similar impacts of climate change on the distribution of widespread and tropical species. <i>Global Change Biology</i> , 2014 , 20, 1738-50	11.4	151
742	Biological invasions, climate change and genomics. <i>Evolutionary Applications</i> , 2015 , 8, 23-46	4.8	150
741	A comprehensive assessment of geographic variation in heat tolerance and hardening capacity in populations of <i>Drosophila melanogaster</i> from eastern Australia. <i>Journal of Evolutionary Biology</i> , 2010 , 23, 2484-93	2.3	147
740	Environmental effects on cytoplasmic incompatibility and bacterial load in <i>Wolbachia</i> -infected <i>Drosophila simulans</i> . <i>Entomologia Experimentalis Et Applicata</i> , 1998 , 86, 13-24	2.1	139
739	Complexity of the cold acclimation response in <i>Drosophila melanogaster</i> . <i>Journal of Insect Physiology</i> , 2006 , 52, 94-104	2.4	139
738	Maternal and grandmaternal age influence offspring fitness in <i>Drosophila</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2000 , 267, 2105-10	4.4	138
737	Microbe-induced cytoplasmic incompatibility as a mechanism for introducing transgenes into arthropod populations. <i>Insect Molecular Biology</i> , 1999 , 8, 243-55	3.4	138
736	Consequences of heat hardening on a field fitness component in <i>Drosophila</i> depend on environmental temperature. <i>American Naturalist</i> , 2007 , 169, 175-83	3.7	137
735	Dynamics of the "popcorn" <i>Wolbachia</i> infection in outbred <i>Aedes aegypti</i> informs prospects for mosquito vector control. <i>Genetics</i> , 2011 , 187, 583-95	4	133
734	Comparing phenotypic effects and molecular correlates of developmental, gradual and rapid cold acclimation responses in <i>Drosophila melanogaster</i> . <i>Functional Ecology</i> , 2012 , 26, 84-93	5.6	131
733	Geographical variation in the acclimation responses of <i>Drosophila</i> to temperature extremes. <i>American Naturalist</i> , 1993 , 142 Suppl 1, S93-113	3.7	131
732	Thermal ramping rate influences evolutionary potential and species differences for upper thermal limits in <i>Drosophila</i> . <i>Functional Ecology</i> , 2010 , 24, 694-700	5.6	130
731	Incorporating evolutionary adaptation in species distribution modelling reduces projected vulnerability to climate change. <i>Ecology Letters</i> , 2016 , 19, 1468-1478	10	128
730	Field evaluation of the establishment potential of wMelPop <i>Wolbachia</i> in Australia and Vietnam for dengue control. <i>Parasites and Vectors</i> , 2015 , 8, 563	4	128

729	Establishment of Wolbachia Strain wAlbB in Malaysian Populations of <i>Aedes aegypti</i> for Dengue Control. <i>Current Biology</i> , 2019 , 29, 4241-4248.e5	6.3	128
728	Wolbachia dynamics and host effects: what has (and has not) been demonstrated?. <i>Trends in Ecology and Evolution</i> , 2002 , 17, 257-262	10.9	126
727	Wolbachia strains for disease control: ecological and evolutionary considerations. <i>Evolutionary Applications</i> , 2015 , 8, 751-68	4.8	124
726	Selection for starvation resistance in <i>Drosophila melanogaster</i> : physiological correlates, enzyme activities and multiple stress responses. <i>Journal of Evolutionary Biology</i> , 1999 , 12, 370-379	2.3	124
725	Unidirectional Incompatibility between Populations of <i>Drosophila simulans</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1986 , 40, 692	3.8	124
724	Wolbachia Infections in <i>Aedes aegypti</i> Differ Markedly in Their Response to Cyclical Heat Stress. <i>PLoS Pathogens</i> , 2017 , 13, e1006006	7.6	123
723	Climate change vulnerability assessment of species. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2019 , 10, e551	8.4	122
722	Rapid sequential spread of two Wolbachia variants in <i>Drosophila simulans</i> . <i>PLoS Pathogens</i> , 2013 , 9, e1003607	10.3	121
721	Rapid loss of stress resistance in <i>Drosophila melanogaster</i> under adaptation to laboratory culture. <i>Evolution; International Journal of Organic Evolution</i> , 2001 , 55, 436-8	3.8	119
720	A laboratory study of male territoriality in the sibling species <i>Drosophila melanogaster</i> and <i>D. simulans</i> . <i>Animal Behaviour</i> , 1987 , 35, 807-818	2.8	118
719	Genome-wide SNPs lead to strong signals of geographic structure and relatedness patterns in the major arbovirus vector, <i>Aedes aegypti</i> . <i>BMC Genomics</i> , 2014 , 15, 275	4.5	116
718	Clinal variation in <i>Drosophila serrata</i> for stress resistance and body size. <i>Genetical Research</i> , 2002 , 79, 141-8	1.1	115
717	Response of two heat shock genes to selection for knockdown heat resistance in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 1996 , 143, 1615-27	4	114
716	A framework for incorporating evolutionary genomics into biodiversity conservation and management. <i>Climate Change Responses</i> , 2015 , 2,		110
715	Revisiting Adaptive Potential, Population Size, and Conservation. <i>Trends in Ecology and Evolution</i> , 2017 , 32, 506-517	10.9	108
714	Comparing Different Measures of Heat Resistance in Selected Lines of <i>Drosophila melanogaster</i> . <i>Journal of Insect Physiology</i> , 1997 , 43, 393-405	2.4	104
713	The Wolbachia strain wAu provides highly efficient virus transmission blocking in <i>Aedes aegypti</i> . <i>PLoS Pathogens</i> , 2018 , 14, e1006815	7.6	103
712	Quantitative trait symmetry independent of Hsp90 buffering: distinct modes of genetic canalization and developmental stability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 13396-401	11.5	102

711	Geographic variation for wing shape in <i>Drosophila serrata</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2002 , 56, 1068-73	3.8	99
710	Identification of a candidate adaptive polymorphism for <i>Drosophila</i> life history by parallel independent clines on two continents. <i>Molecular Ecology</i> , 2010 , 19, 760-74	5.7	98
709	Demographic factors and genetic variation influence population persistence under environmental change. <i>Journal of Evolutionary Biology</i> , 2009 , 22, 124-33	2.3	96
708	DNA sequence variation and latitudinal associations in hsp23, hsp26 and hsp27 from natural populations of <i>Drosophila melanogaster</i> . <i>Molecular Ecology</i> , 2003 , 12, 2025-32	5.7	96
707	The effects of host age, host nuclear background and temperature on phenotypic effects of the virulent <i>Wolbachia</i> strain popcorn in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2003 , 164, 1027-34	4	95
706	Postponed reproduction as an adaptation to winter conditions in <i>Drosophila melanogaster</i> : evidence for clinal variation under semi-natural conditions. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2001 , 268, 2163-8	4.4	94
705	Direct and correlated responses to selection for desiccation resistance: a comparison of <i>Drosophila melanogaster</i> and <i>D. simulans</i> . <i>Journal of Evolutionary Biology</i> , 1993 , 6, 643-657	2.3	94
704	Microclimate modelling at macro scales: a test of a general microclimate model integrated with gridded continental-scale soil and weather data. <i>Methods in Ecology and Evolution</i> , 2014 , 5, 273-286	7.7	93
703	Dissecting adaptive clinal variation: markers, inversions and size/stress associations in <i>Drosophila melanogaster</i> from a central field population. <i>Ecology Letters</i> , 2002 , 5, 756-763	10	93
702	Clinal variation and laboratory adaptation in the rainforest species <i>Drosophila birchii</i> for stress resistance, wing size, wing shape and development time. <i>Journal of Evolutionary Biology</i> , 2005 , 18, 213-223	2.3	92
701	A c-Rel subdomain responsible for enhanced DNA-binding affinity and selective gene activation. <i>Genes and Development</i> , 2005 , 19, 2138-51	12.6	92
700	Evidence for a robust sex-specific trade-off between cold resistance and starvation resistance in <i>Drosophila melanogaster</i> . <i>Journal of Evolutionary Biology</i> , 2005 , 18, 804-10	2.3	91
699	Partial cytoplasmic incompatibility between two Australian populations of <i>Drosophila melanogaster</i> . <i>Entomologia Experimentalis Et Applicata</i> , 1988 , 48, 61-67	2.1	91
698	The Impact of Climate Change on Fertility. <i>Trends in Ecology and Evolution</i> , 2019 , 34, 249-259	10.9	91
697	Salinized rivers: degraded systems or new habitats for salt-tolerant faunas?. <i>Biology Letters</i> , 2016 , 12, 20151072	3.6	90
696	Plasticity versus environmental canalization: population differences in thermal responses along a latitudinal gradient in <i>Drosophila serrata</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2009 , 63, 1954-63	3.8	90
695	The latitudinal cline in the In(3R)Payne inversion polymorphism has shifted in the last 20 years in Australian <i>Drosophila melanogaster</i> populations. <i>Molecular Ecology</i> , 2005 , 14, 851-8	5.7	90
694	Response to natural and laboratory selection at the <i>Drosophila</i> hsp70 genes. <i>Evolution; International Journal of Organic Evolution</i> , 2002 , 56, 1796-801	3.8	89

693	Wolbachia-like organisms and cytoplasmic incompatibility in <i>Drosophila simulans</i> . <i>Journal of Invertebrate Pathology</i> , 1989 , 54, 344-352	2.6	89
692	Nonclinality of molecular variation implicates selection in maintaining a morphological cline of <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2001 , 158, 319-23	4	89
691	Establishment of Mel in mosquitoes and reduction of local dengue transmission in Cairns and surrounding locations in northern Queensland, Australia. <i>Gates Open Research</i> , 2019 , 3, 1547	2.4	88
690	Genetic divergence under uniform selection. II. Different responses to selection for knockdown resistance to ethanol among <i>Drosophila melanogaster</i> populations and their replicate lines. <i>Genetics</i> , 1986 , 114, 145-64	4	85
689	Acclimation for desiccation resistance in <i>Drosophila melanogaster</i> and the association between acclimation responses and genetic variation. <i>Journal of Insect Physiology</i> , 1990 , 36, 885-891	2.4	83
688	Very low additive genetic variance and evolutionary potential in multiple populations of two rainforest <i>Drosophila</i> species. <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 1104-8	3.8	82
687	Response to selection for rapid chill-coma recovery in <i>Drosophila melanogaster</i> : physiology and life-history traits. <i>Genetical Research</i> , 2005 , 85, 15-22	1.1	82
686	Thermal tolerance trade-offs associated with the right arm of chromosome 3 and marked by the <i>hsr-omega</i> gene in <i>Drosophila melanogaster</i> . <i>Heredity</i> , 2003 , 90, 195-202	3.6	81
685	Vegetation increases the abundance of natural enemies in vineyards. <i>Biological Control</i> , 2009 , 49, 259-269	3.8	80
684	HSP90 AND THE QUANTITATIVE VARIATION OF WING SHAPE IN <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 2529-2538	3.8	80
683	Rapid Global Spread of wRi-like Wolbachia across Multiple <i>Drosophila</i> . <i>Current Biology</i> , 2018 , 28, 963-971	3.8	79
682	Matching the genetics of released and local <i>Aedes aegypti</i> populations is critical to assure Wolbachia invasion. <i>PLoS Neglected Tropical Diseases</i> , 2019 , 13, e0007023	4.8	77
681	Effects of ground cover (straw and compost) on the abundance of natural enemies and soil macro invertebrates in vineyards. <i>Agricultural and Forest Entomology</i> , 2007 , 9, 173-179	1.9	75
680	Selection for adult desiccation resistance in <i>Drosophila melanogaster</i> : fitness components, larval resistance and stress correlations. <i>Biological Journal of the Linnean Society</i> , 1993 , 48, 43-54	1.9	75
679	Uniform Selection as a Diversifying Force in Evolution: Evidence from <i>Drosophila</i> . <i>American Naturalist</i> , 1989 , 134, 613-637	3.7	75
678	Establishment of wMel Wolbachia in <i>Aedes aegypti</i> mosquitoes and reduction of local dengue transmission in Cairns and surrounding locations in northern Queensland, Australia. <i>Gates Open Research</i> , 2019 , 3, 1547	2.4	75
677	Candidate genes and thermal phenotypes: identifying ecologically important genetic variation for thermotolerance in the Australian <i>Drosophila melanogaster</i> cline. <i>Molecular Ecology</i> , 2007 , 16, 2948-57	5.7	74
676	Persistence of a Wolbachia infection frequency cline in <i>Drosophila melanogaster</i> and the possible role of reproductive dormancy. <i>Evolution; International Journal of Organic Evolution</i> , 2016 , 70, 979-97	3.8	73

675	A predicted niche shift corresponds with increased thermal resistance in an invasive mite, <i>Halotydeus destructor</i> . <i>Global Ecology and Biogeography</i> , 2013 , 22, 942-951	6.1	73
674	VERY LOW ADDITIVE GENETIC VARIANCE AND EVOLUTIONARY POTENTIAL IN MULTIPLE POPULATIONS OF TWO RAINFOREST DROSOPHILA SPECIES. <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 1104-1108	3.8	73
673	The effects of soil tillage on beneficial invertebrates within the vineyard. <i>Agricultural and Forest Entomology</i> , 2008 , 10, 233-243	1.9	72
672	THE ASSOCIATION BETWEEN FLUCTUATING ASYMMETRY, TRAIT VARIABILITY, TRAIT HERITABILITY, AND STRESS: A MULTIPLY REPLICATED EXPERIMENT ON COMBINED STRESSES IN DROSOPHILA MELANOGASTER. <i>Evolution; International Journal of Organic Evolution</i> , 1999 , 53, 493-505	3.8	72
671	Conservation of genetic uniqueness of populations may increase extinction likelihood of endangered species: the case of Australian mammals. <i>Frontiers in Zoology</i> , 2016 , 13, 31	2.8	71
670	Stress Resistance and Environmental Dependency of Inbreeding Depression in <i>Drosophila melanogaster</i> . <i>Conservation Biology</i> , 2000 , 14, 1187-1192	6	71
669	A next-generation sequencing method for overcoming the multiple gene copy problem in polyploid phylogenetics, applied to <i>Poa</i> grasses. <i>BMC Biology</i> , 2011 , 9, 19	7.3	70
668	The response of Chironomidae to sediment pollution and other environmental characteristics in urban wetlands. <i>Freshwater Biology</i> , 2007 , 52, 2444-2462	3.1	70
667	A new set of laboratory-selected <i>Drosophila melanogaster</i> lines for the analysis of desiccation resistance: response to selection, physiology and correlated responses. <i>Journal of Experimental Biology</i> , 2006 , 209, 1837-47	3	70
666	Patterns of diversity and linkage disequilibrium within the cosmopolitan inversion In(3R)Payne in <i>Drosophila melanogaster</i> are indicative of coadaptation. <i>Genetics</i> , 2006 , 172, 1655-63	4	70
665	THE GENETICS OF CENTRAL AND MARGINAL POPULATIONS OF DROSOPHILA SERRATA. I. GENETIC VARIATION FOR STRESS RESISTANCE AND SPECIES BORDERS. <i>Evolution; International Journal of Organic Evolution</i> , 1993 , 47, 1255-1270	3.8	70
664	Fitness of wAlbB Wolbachia Infection in <i>Aedes aegypti</i> : Parameter Estimates in an Outcrossed Background and Potential for Population Invasion. <i>American Journal of Tropical Medicine and Hygiene</i> , 2016 , 94, 507-16	3.2	70
663	Effects of small Hsp genes on developmental stability and microenvironmental canalization. <i>BMC Evolutionary Biology</i> , 2010 , 10, 284	3	69
662	Application of wMelPop Wolbachia Strain to Crash Local Populations of <i>Aedes aegypti</i> . <i>PLoS Neglected Tropical Diseases</i> , 2015 , 9, e0003930	4.8	68
661	High-throughput PCR assays to monitor Wolbachia infection in the dengue mosquito (<i>Aedes aegypti</i>) and <i>Drosophila simulans</i> . <i>Applied and Environmental Microbiology</i> , 2012 , 78, 4740-3	4.8	68
660	Genetic rescue increases fitness and aids rapid recovery of an endangered marsupial population. <i>Nature Communications</i> , 2017 , 8, 1071	17.4	67
659	Overwintering in <i>Drosophila melanogaster</i> : outdoor field cage experiments on clinal and laboratory selected populations help to elucidate traits under selection. <i>Journal of Evolutionary Biology</i> , 2003 , 16, 614-23	2.3	66
658	A field cage test of the effects of the endosymbiont Wolbachia on <i>Drosophila melanogaster</i> . <i>Heredity</i> , 2001 , 86, 731-7	3.6	66

657	Night warming on hot days produces novel impacts on development, survival and reproduction in a small arthropod. <i>Journal of Animal Ecology</i> , 2014 , 83, 769-78	4.7	65
656	Field validation of the gravid Aedes trap (GAT) for collection of Aedes aegypti (Diptera: Culicidae). <i>Journal of Medical Entomology</i> , 2014 , 51, 210-9	2.2	64
655	Making decisions to conserve species under climate change. <i>Climatic Change</i> , 2013 , 119, 239-246	4.5	64
654	Effect of altitude on the genetic structure of an Alpine grass, Poa hiemata. <i>Annals of Botany</i> , 2009 , 103, 885-99	4.1	64
653	Costs and benefits of acclimation to elevated temperature in Trichogramma carverae. <i>Entomologia Experimentalis Et Applicata</i> , 1997 , 85, 211-219	2.1	64
652	Shifting clinal patterns and microsatellite variation in Drosophila serrata populations: a comparison of populations near the southern border of the species range. <i>Journal of Evolutionary Biology</i> , 2002 , 15, 763-774	2.3	64
651	Wolbachia effects in Drosophila melanogaster: in search of fitness benefits. <i>Journal of Invertebrate Pathology</i> , 2004 , 87, 45-50	2.6	64
650	The influence of age and experience with conspecifics on territorial behavior in Drosophila melanogaster. <i>Journal of Insect Behavior</i> , 1990 , 3, 1-12	1.1	64
649	Selection for cold resistance alters gene transcript levels in Drosophila melanogaster. <i>Journal of Insect Physiology</i> , 2009 , 55, 549-55	2.4	63
648	Behavior of Wolbachia endosymbionts from Drosophila simulans in Drosophila serrata, a novel host. <i>American Naturalist</i> , 1997 , 149, 975-88	3.7	63
647	Effects of methoxyfenozide, indoxacarb, and other insecticides on the beneficial egg parasitoid Trichogramma nr. brassicae (Hymenoptera: Trichogrammatidae) under laboratory and field conditions. <i>Journal of Economic Entomology</i> , 2003 , 96, 1083-90	2.2	63
646	Hardening capacity in the Drosophila melanogaster species group is constrained by basal thermotolerance. <i>Functional Ecology</i> , 2005 , 19, 853-858	5.6	63
645	Molecular markers indicate that the wheat curl mite, Aceria tosichella Keifer, may represent a species complex in Australia. <i>Bulletin of Entomological Research</i> , 2009 , 99, 479-86	1.7	62
644	Fine-scale landscape genomics helps explain the slow spatial spread of Wolbachia through the Aedes aegypti population in Cairns, Australia. <i>Heredity</i> , 2018 , 120, 386-395	3.6	61
643	Knocking down expression of Hsp22 and Hsp23 by RNA interference affects recovery from chill coma in Drosophila melanogaster. <i>Journal of Experimental Biology</i> , 2010 , 213, 4146-50	3	61
642	Natural enemy responses and pest control: Importance of local vegetation. <i>Biological Control</i> , 2010 , 52, 160-166	3.8	60
641	Towards genetic markers in animal populations as biomonitors for human-induced environmental change. <i>Ecology Letters</i> , 2007 , 10, 63-76	10	60
640	Effects of Experience on Oviposition and Attraction in Drosophila: Comparing Apples and Oranges. <i>American Naturalist</i> , 1985 , 126, 41-51	3.7	60

639	Effects of native grass cover crops on beneficial and pest invertebrates in Australian vineyards. <i>Environmental Entomology</i> , 2010 , 39, 970-8	2.1	59
638	Characterizing the <i>Aedes aegypti</i> population in a Vietnamese village in preparation for a Wolbachia-based mosquito control strategy to eliminate dengue. <i>PLoS Neglected Tropical Diseases</i> , 2009 , 3, e552	4.8	59
637	Dissecting chill coma recovery as a measure of cold resistance: evidence for a biphasic response in <i>Drosophila melanogaster</i> . <i>Journal of Insect Physiology</i> , 2004 , 50, 695-700	2.4	59
636	What can livestock breeders learn from conservation genetics and vice versa?. <i>Frontiers in Genetics</i> , 2015 , 6, 38	4.5	58
635	Rates and Patterns of Laboratory Adaptation in (Mostly) Insects. <i>Journal of Economic Entomology</i> , 2018 , 111, 501-509	2.2	58
634	Phenotypic plasticity in upper thermal limits is weakly related to <i>Drosophila</i> species distributions. <i>Functional Ecology</i> , 2011 , 25, 661-670	5.6	58
633	Species status and population genetic structure of grapevine eriophyoid mites. <i>Entomologia Experimentalis Et Applicata</i> , 2004 , 111, 87-96	2.1	57
632	Impacts of recent climate change on terrestrial flora and fauna: Some emerging Australian examples. <i>Austral Ecology</i> , 2019 , 44, 3-27	1.5	57
631	Evolutionary Ecology of Releases for Disease Control. <i>Annual Review of Genetics</i> , 2019 , 53, 93-116	14.5	56
630	Spatial scale of benefits from adjacent woody vegetation on natural enemies within vineyards. <i>Biological Control</i> , 2013 , 64, 57-65	3.8	56
629	Can artificially selected phenotypes influence a component of field fitness? Thermal selection and fly performance under thermal extremes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007 , 274, 771-8	4.4	56
628	Loss of cytoplasmic incompatibility in Wolbachia-infected <i>Aedes aegypti</i> under field conditions. <i>PLoS Neglected Tropical Diseases</i> , 2019 , 13, e0007357	4.8	55
627	Association between Three Mutations, F1565C, V1023G and S996P, in the Voltage-Sensitive Sodium Channel Gene and Knockdown Resistance in <i>Aedes aegypti</i> from Yogyakarta, Indonesia. <i>Insects</i> , 2015 , 6, 658-85	2.8	55
626	A field-based microcosm method to assess the effects of polluted urban stream sediments on aquatic macroinvertebrates. <i>Environmental Toxicology and Chemistry</i> , 2005 , 24, 170-80	3.8	55
625	Evolutionary potential of multiple measures of upper thermal tolerance in <i>Drosophila melanogaster</i> . <i>Functional Ecology</i> , 2016 , 30, 442-452	5.6	55
624	Impact of hot events at different developmental stages of a moth: the closer to adult stage, the less reproductive output. <i>Scientific Reports</i> , 2015 , 5, 10436	4.9	54
623	Assessing quality of life-shortening Wolbachia-infected <i>Aedes aegypti</i> mosquitoes in the field based on capture rates and morphometric assessments. <i>Parasites and Vectors</i> , 2014 , 7, 58	4	54
622	The molecular genetics of clinal variation: a case study of ebony and thoracic trident pigmentation in <i>Drosophila melanogaster</i> from eastern Australia. <i>Molecular Ecology</i> , 2011 , 20, 2100-10	5.7	54

621	Wing shape versus asymmetry as an indicator of changing environmental conditions in insects. <i>Australian Journal of Entomology</i> , 2005 , 44, 233-243		53
620	Mission Accomplished? We Need a Guide to the 'Post Release' World of Wolbachia for Aedes-borne Disease Control. <i>Trends in Parasitology</i> , 2018 , 34, 217-226	6.4	52
619	Body size and wing shape measurements as quality indicators of <i>Aedes aegypti</i> mosquitoes destined for field release. <i>American Journal of Tropical Medicine and Hygiene</i> , 2013 , 89, 78-92	3.2	52
618	Assessing population and environmental effects on thermal resistance in <i>Drosophila melanogaster</i> using ecologically relevant assays. <i>Journal of Thermal Biology</i> , 2011 , 36, 409-416	2.9	52
617	DNA identification of urban Tanytarsini chironomids (Diptera:Chironomidae). <i>Journal of the North American Benthological Society</i> , 2007 , 26, 587-600		52
616	Territoriality in <i>Drosophila melanogaster</i> as a conditional strategy. <i>Animal Behaviour</i> , 1990 , 40, 526-537	2.8	52
615	Extending spatial modelling of climate change responses beyond the realized niche: estimating, and accommodating, physiological limits and adaptive evolution. <i>Global Ecology and Biogeography</i> , 2015 , 24, 1192-1202	6.1	51
614	Population bottlenecks increase additive genetic variance but do not break a selection limit in rain forest <i>Drosophila</i> . <i>Genetics</i> , 2008 , 179, 2135-46	4	51
613	Cross-generation effects due to cold exposure in <i>Drosophila serrata</i> . <i>Functional Ecology</i> , 2003 , 17, 664-676		51
612	Acclimation for desiccation resistance in <i>Drosophila</i> : Species and population comparisons. <i>Journal of Insect Physiology</i> , 1991 , 37, 757-762	2.4	51
611	Heritable variation for territorial success in two <i>Drosophila melanogaster</i> populations. <i>Animal Behaviour</i> , 1988 , 36, 1180-1189	2.8	51
610	Phylogenetic analyses reveal extensive cryptic speciation and host specialization in an economically important mite taxon. <i>Molecular Phylogenetics and Evolution</i> , 2013 , 66, 928-40	4.1	50
609	ACCLIMATION, CROSS-GENERATION EFFECTS, AND THE RESPONSE TO SELECTION FOR INCREASED COLD RESISTANCE IN DROSOPHILA. <i>Evolution; International Journal of Organic Evolution</i> , 1996 , 50, 1182-1192	3.8	50
608	Phenological changes in six Australian subalpine plants in response to experimental warming and year-to-year variation. <i>Journal of Ecology</i> , 2010 , 98, 927-937	6	49
607	Eriophyoid mite damage in <i>Vitis vinifera</i> (grapevine) in Australia: <i>Calepitrimerus vitis</i> and <i>Colomerus vitis</i> (Acari: Eriophyidae) as the common cause of the widespread 'Restricted Spring Growth' syndrome. <i>Experimental and Applied Acarology</i> , 2005 , 35, 83-109	2.1	49
606	Field validation of laboratory-derived IOBC toxicity ratings for natural enemies in commercial vineyards. <i>Biological Control</i> , 2006 , 39, 507-515	3.8	48
605	Altitudinal patterns for latitudinally varying traits and polymorphic markers in <i>Drosophila melanogaster</i> from eastern Australia. <i>Journal of Evolutionary Biology</i> , 2006 , 19, 473-82	2.3	48
604	Territorial encounters between <i>Drosophila</i> males of different sizes. <i>Animal Behaviour</i> , 1987 , 35, 1899-1908		48

603	Climate-induced phenology shifts linked to range expansions in species with multiple reproductive cycles per year. <i>Nature Communications</i> , 2019 , 10, 4455	17.4	48
602	Trait variability and stress: canalization, developmental stability and the need for a broad approach. <i>Ecology Letters</i> , 2001 , 4, 97-101	10	47
601	Costs of Three Wolbachia Infections on the Survival of <i>Aedes aegypti</i> Larvae under Starvation Conditions. <i>PLoS Neglected Tropical Diseases</i> , 2016 , 10, e0004320	4.8	47
600	A clinally varying promoter polymorphism associated with adaptive variation in wing size in <i>Drosophila</i> . <i>Molecular Ecology</i> , 2010 , 19, 775-84	5.7	46
599	Clonal reproduction and population genetic structure of grape phylloxera, <i>Daktulosphaira vitifoliae</i> , in Australia. <i>Heredity</i> , 2002 , 88, 203-11	3.6	46
598	Are wing size, wing shape and asymmetry related to field fitness of <i>Trichogramma</i> egg parasitoids?. <i>Oikos</i> , 2003 , 100, 563-573	4	46
597	Density-dependent population dynamics in <i>Aedes aegypti</i> slow the spread of wMel Wolbachia. <i>Journal of Applied Ecology</i> , 2016 , 53, 785-793	5.8	46
596	Daily temperature extremes play an important role in predicting thermal effects. <i>Journal of Experimental Biology</i> , 2015 , 218, 2289-96	3	45
595	Effects of Methoxyfenozide, Indoxacarb, and Other Insecticides on the Beneficial Egg Parasitoid <i>Trichogramma nr. brassicae</i> (Hymenoptera: Trichogrammatidae) Under Laboratory and Field Conditions. <i>Journal of Economic Entomology</i> , 2003 , 96, 1083-1090	2.2	45
594	The Association between Fluctuating Asymmetry, Trait Variability, Trait Heritability, and Stress: A Multiply Replicated Experiment on Combined Stresses in <i>Drosophila melanogaster</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1999 , 53, 493	3.8	45
593	Hybridization as a conservation management tool. <i>Conservation Letters</i> , 2019 , 12, e12652	6.9	44
592	Ecological evidence links adverse biological effects to pesticide and metal contamination in an urban Australian watershed. <i>Journal of Applied Ecology</i> , 2014 , 51, 426-439	5.8	44
591	Larval competition extends developmental time and decreases adult size of wMelPop Wolbachia-infected <i>Aedes aegypti</i> . <i>American Journal of Tropical Medicine and Hygiene</i> , 2014 , 91, 198-205 ^{3.2}		44
590	Both allelic variation and expression of nuclear and cytoplasmic transcripts of Hsr-omega are closely associated with thermal phenotype in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 2423-8	11.5	44
589	Understanding niche shifts: using current and historical data to model the invasive redlegged earth mite, <i>Halotydeus destructor</i> . <i>Diversity and Distributions</i> , 2012 , 18, 191-203	5	43
588	Acclimation for heat resistance in <i>Trichogramma nr. brassicae</i> : can it occur without costs?. <i>Functional Ecology</i> , 2000 , 14, 55-60	5.6	43
587	Genetic structure of <i>Halotydeus destructor</i> and <i>Penthaleus major</i> populations in Victoria (Acari: Penthaleidae). <i>Experimental and Applied Acarology</i> , 1995 , 19, 633-646	2.1	43
586	Distribution of <i>Drosophila melanogaster</i> on Alternative Resources: Effects of Experience and Starvation. <i>American Naturalist</i> , 1985 , 126, 662-679	3.7	43

585	Wolbachia supplement biotin and riboflavin to enhance reproduction in planthoppers. <i>ISME Journal</i> , 2020 , 14, 676-687	11.9	43
584	Genetic, molecular and physiological basis of variation in <i>Drosophila</i> gut immunocompetence. <i>Nature Communications</i> , 2015 , 6, 7829	17.4	42
583	Detection of Low-Level Cardinium and Wolbachia Infections in Culicoides. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 6177-88	4.8	42
582	Evidence of genomic adaptation to climate in <i>Eucalyptus microcarpa</i> : Implications for adaptive potential to projected climate change. <i>Molecular Ecology</i> , 2017 , 26, 6002-6020	5.7	42
581	Novel estimates of <i>Aedes aegypti</i> (Diptera: Culicidae) population size and adult survival based on Wolbachia releases. <i>Journal of Medical Entomology</i> , 2013 , 50, 624-31	2.2	42
580	Functional characterization of the Frost gene in <i>Drosophila melanogaster</i> : importance for recovery from chill coma. <i>PLoS ONE</i> , 2010 , 5, e10925	3.7	42
579	Isolating the impact of sediment toxicity in urban streams. <i>Environmental Pollution</i> , 2010 , 158, 1716-25	9.3	42
578	Effects of cold storage on field and laboratory performance of <i>Trichogramma carverae</i> (Hymenoptera: Trichogrammatidae) and the response of three <i>Trichogramma</i> spp. (<i>T. carverae</i> , <i>T. nr. brassicae</i> , and <i>T. funiculatum</i>) to cold. <i>Journal of Economic Entomology</i> , 2004 , 97, 213-21	2.2	42
577	Limits to the Southern Border of <i>Drosophila serrata</i> : Cold Resistance, Heritable Variation, and Trade-Offs. <i>Evolution; International Journal of Organic Evolution</i> , 1999 , 53, 1823	3.8	42
576	The effect of virus-blocking Wolbachia on male competitiveness of the dengue vector mosquito, <i>Aedes aegypti</i> . <i>PLoS Neglected Tropical Diseases</i> , 2014 , 8, e3294	4.8	41
575	Developing a Commercially Viable System for Biological Control of Light Brown Apple Moth (Lepidoptera: Tortricidae) in Grapes Using Endemic <i>Trichogramma</i> (Hymenoptera: Trichogrammatidae). <i>Journal of Economic Entomology</i> , 1997 , 90, 370-382	2.2	41
574	The changing status of invertebrate pests and the future of pest management in the Australian grains industry. <i>Australian Journal of Experimental Agriculture</i> , 2008 , 48, 1481		41
573	Cytoplasmic incompatibility in <i>Drosophila simulans</i> : evolving complexity. <i>Trends in Ecology and Evolution</i> , 1996 , 11, 145-6	10.9	41
572	Selection for territoriality in <i>Drosophila melanogaster</i> : correlated responses in mating success and other fitness components. <i>Animal Behaviour</i> , 1989 , 38, 23-34	2.8	41
571	Stable establishment of wMel Wolbachia in <i>Aedes aegypti</i> populations in Yogyakarta, Indonesia. <i>PLoS Neglected Tropical Diseases</i> , 2020 , 14, e0008157	4.8	41
570	A single hot event that does not affect survival but decreases reproduction in the diamondback moth, <i>Plutella xylostella</i> . <i>PLoS ONE</i> , 2013 , 8, e75923	3.7	40
569	Antagonistic selection between adult thorax and wing size in field released <i>Drosophila melanogaster</i> independent of thermal conditions. <i>Journal of Evolutionary Biology</i> , 2007 , 20, 2219-27	2.3	40
568	Identifying chironomids (Diptera: Chironomidae) for biological monitoring with PCR-RFLP. <i>Bulletin of Entomological Research</i> , 2003 , 93, 483-90	1.7	40

567	Effects of Cold Storage on Field and Laboratory Performance of <i>Trichogramma carverae</i> (Hymenoptera: Trichogrammatidae) and the Response of Three <i>Trichogramma</i> spp. (<i>T. carverae</i> , <i>T. nr. brassicae</i> , and <i>T. funiculatum</i>) to Cold. <i>Journal of Economic Entomology</i> , 2004 , 97, 213-221	2.2	40
566	Acclimation, Cross-Generation Effects, and the Response to Selection for Increased Cold Resistance in <i>Drosophila</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1996 , 50, 1182	3.8	40
565	Genetic divergence under uniform selection. III. Selection for knockdown resistance to ethanol in <i>Drosophila pseudoobscura</i> populations and their replicate lines. <i>Heredity</i> , 1987 , 58 (Pt 3), 425-33	3.6	40
564	ENVIRONMENTAL EFFECTS ON REMATING IN <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1988 , 42, 312-321	3.8	40
563	Detoxifying enzyme complements and host use phenotypes in 160 insect species. <i>Current Opinion in Insect Science</i> , 2019 , 31, 131-138	5.1	40
562	Cover crops in Victorian apple orchards: Effects on production, natural enemies and pests across a season. <i>Crop Protection</i> , 2009 , 28, 675-683	2.7	39
561	A high incidence of parthenogenesis in agricultural pests. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008 , 275, 2473-81	4.4	39
560	Tolerance of cryptic species of blue oat mites (<i>Penthaleus</i> spp.) and the redlegged earth mite (<i>Halotydeus destructor</i>) to pesticides. <i>Australian Journal of Experimental Agriculture</i> , 1999 , 39, 621		39
559	Hsp90 and the quantitative variation of wing shape in <i>Drosophila melanogaster</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 2529-38	3.8	39
558	Phylogenetic signals and ecotoxicological responses: potential implications for aquatic biomonitoring. <i>Ecotoxicology</i> , 2011 , 20, 595-606	2.9	38
557	Changes in the genetic structure of <i>Aedes aegypti</i> (Diptera: Culicidae) populations in Queensland, Australia, across two seasons: implications for potential mosquito releases. <i>Journal of Medical Entomology</i> , 2011 , 48, 999-1007	2.2	38
556	Shelterbelts in agricultural landscapes suppress invertebrate pests. <i>Australian Journal of Experimental Agriculture</i> , 2006 , 46, 1379		38
555	Effects of stress combinations on the expression of additive genetic variation for fecundity in <i>Drosophila melanogaster</i> . <i>Genetical Research</i> , 1998 , 72, 13-8	1.1	38
554	No detectable effect of Mel on the prevalence and abundance of the RNA virome of. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018 , 285,	4.4	37
553	Polymorphism in the couch potato gene clines in eastern Australia but is not associated with ovarian dormancy in <i>Drosophila melanogaster</i> . <i>Molecular Ecology</i> , 2011 , 20, 2973-84	5.7	37
552	HSP90 AND THE QUANTITATIVE VARIATION OF WING SHAPE IN <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 2529	3.8	37
551	The association between inversion In(3R)Payne and clinally varying traits in <i>Drosophila melanogaster</i> . <i>Genetica</i> , 2006 , 128, 373-84	1.5	37
550	Plant host associations of <i>Penthaleus</i> species and <i>Halotydeus destructor</i> (Acari: Penthaleidae) and implications for integrated pest management. <i>Experimental and Applied Acarology</i> , 2004 , 33, 1-20	2.1	37

549	Biology, ecology and control of the <i>Penthaeus</i> species complex (Acari: Penthaeidae). <i>Experimental and Applied Acarology</i> , 2004 , 34, 211-37	2.1	37
548	Field and laboratory evidence for acclimation without costs in an egg parasitoid. <i>Functional Ecology</i> , 2001 , 15, 217-221	5.6	37
547	Genomic evidence for role of inversion 3RP of <i>Drosophila melanogaster</i> in facilitating climate change adaptation. <i>Molecular Ecology</i> , 2015 , 24, 2423-32	5.7	36
546	Population genetic structure of <i>Aedes (Stegomyia) aegypti</i> (L.) at a micro-spatial scale in Thailand: implications for a dengue suppression strategy. <i>PLoS Neglected Tropical Diseases</i> , 2013 , 7, e1913	4.8	36
545	Genetic structure of <i>Aedes aegypti</i> in Australia and Vietnam revealed by microsatellite and exon primed intron crossing markers suggests feasibility of local control options. <i>Journal of Medical Entomology</i> , 2009 , 46, 1074-83	2.2	36
544	Is there genetic structure in populations of <i>Helicoverpa armigera</i> from Australia?. <i>Entomologia Experimentalis Et Applicata</i> , 2007 , 122, 253-263	2.1	36
543	Habitat selection: Olfactory response of <i>Drosophila melanogaster</i> depends on resources. <i>Heredity</i> , 1984 , 53, 139-143	3.6	36
542	Olfactory response and resource utilization in <i>Drosophila</i> : interspecific comparisons. <i>Biological Journal of the Linnean Society</i> , 1984 , 22, 43-53	1.9	36
541	Interspecific Hybridization May Provide Novel Opportunities for Coral Reef Restoration. <i>Frontiers in Marine Science</i> , 2018 , 5,	4.5	35
540	Adult heat tolerance variation in <i>Drosophila melanogaster</i> is not related to Hsp70 expression. <i>Journal of Experimental Zoology</i> , 2010 , 313, 35-44		35
539	Limitations to reproductive output and genetic rescue in populations of the rare shrub <i>Grevillea repens</i> (Proteaceae). <i>Annals of Botany</i> , 2008 , 102, 1031-41	4.1	35
538	Mapping regions within cosmopolitan inversion In(3R)Payne associated with natural variation in body size in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2007 , 177, 549-56	4	35
537	High levels of variation despite genetic fragmentation in populations of the endangered mountain pygmy-possum, <i>Burramys parvus</i> , in alpine Australia. <i>Molecular Ecology</i> , 2007 , 16, 75-87	5.7	35
536	Effects of sulfur on <i>Trichogramma</i> egg parasitoids in vineyards: measuring toxic effects and establishing release windows. <i>Australian Journal of Experimental Agriculture</i> , 2000 , 40, 1165		35
535	MITOCHONDRIAL DNA POLYMORPHISM AND CYTOPLASMIC INCOMPATIBILITY IN NATURAL POPULATIONS OF <i>DROSOPHILA SIMULANS</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1990 , 44, 1383-1386	3.8	35
534	Desiccation resistance in interspecific <i>Drosophila</i> crosses. Genetic interactions and trait correlations. <i>Genetics</i> , 1999 , 151, 1493-502	4	35
533	A comprehensive assessment of inbreeding and laboratory adaptation in mosquitoes. <i>Evolutionary Applications</i> , 2019 , 12, 572-586	4.8	35
532	Life stages of an aphid living under similar thermal conditions differ in thermal performance. <i>Journal of Insect Physiology</i> , 2017 , 99, 1-7	2.4	34

531	Heatwaves cause fluctuations in wMel Wolbachia densities and frequencies in <i>Aedes aegypti</i> . <i>PLoS Neglected Tropical Diseases</i> , 2020 , 14, e0007958	4.8	34
530	Predicting Wolbachia invasion dynamics in <i>Aedes aegypti</i> populations using models of density-dependent demographic traits. <i>BMC Biology</i> , 2016 , 14, 96	7.3	34
529	Using Wolbachia-based release for suppression of <i>Aedes</i> mosquitoes: insights from genetic data and population simulations 2014 , 24, 1226-34		34
528	Balancing genetic uniqueness and genetic variation in determining conservation and translocation strategies: a comprehensive case study of threatened dwarf galaxias, <i>Galaxiella pusilla</i> (Mack) (Pisces: Galaxiidae). <i>Molecular Ecology</i> , 2013 , 22, 1820-35	5.7	34
527	Thermal sensitivity of <i>Aedes aegypti</i> from Australia: empirical data and prediction of effects on distribution. <i>Journal of Medical Entomology</i> , 2011 , 48, 914-23	2.2	34
526	Testing evolutionary hypotheses about species borders: patterns of genetic variation towards the southern borders of two rainforest <i>Drosophila</i> and a related habitat generalist. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009 , 276, 1517-26	4.4	34
525	Candidate genes detected in transcriptome studies are strongly dependent on genetic background. <i>PLoS ONE</i> , 2011 , 6, e15644	3.7	34
524	Identifying signature of chemical applications on indigenous and invasive nontarget arthropod communities in vineyards 2010 , 20, 1693-703		34
523	Mechanistic models for predicting insect responses to climate change. <i>Current Opinion in Insect Science</i> , 2016 , 17, 81-86	5.1	34
522	Genomic Trajectories to Desiccation Resistance: Convergence and Divergence Among Replicate Selected <i>Drosophila</i> Lines. <i>Genetics</i> , 2017 , 205, 871-890	4	33
521	Incidence of Facultative Bacterial Endosymbionts in Spider Mites Associated with Local Environments and Host Plants. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	33
520	Plasticity for desiccation tolerance across species is affected by phylogeny and climate in complex ways. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018 , 285,	4.4	33
519	A re-examination of Wolbachia-induced cytoplasmic incompatibility in California <i>Drosophila simulans</i> . <i>PLoS ONE</i> , 2011 , 6, e22565	3.7	33
518	The effects of local selection versus dispersal on insecticide resistance patterns: longitudinal evidence from diamondback moth (<i>Plutella xylostella</i> (Lepidoptera: Plutellidae)) in Australia evolving resistance to pyrethroids. <i>Bulletin of Entomological Research</i> , 2008 , 98, 145-57	1.7	33
517	Persistence of experience effects in the parasitoid <i>Trichogramma nr. brassicae</i> . <i>Ecological Entomology</i> , 1998 , 23, 110-117	2.1	33
516	A genomic approach to inferring kinship reveals limited intergenerational dispersal in the yellow fever mosquito. <i>Molecular Ecology Resources</i> , 2019 , 19, 1254-1264	8.4	32
515	Experimental warming and long-term vegetation dynamics in an alpine heathland. <i>Australian Journal of Botany</i> , 2013 , 61, 36	1.2	32
514	Gene and protein expression of <i>Drosophila</i> Starvin during cold stress and recovery from chill coma. <i>Insect Biochemistry and Molecular Biology</i> , 2010 , 40, 425-8	4.5	32

513	Molecular, morphological and behavioural data reveal the presence of a cryptic species in the widely studied <i>Drosophila serrata</i> species complex. <i>Journal of Evolutionary Biology</i> , 2004 , 17, 430-42	2.3	32
512	The Utility of DNA Markers in Classical Taxonomy: Using Cytochrome Oxidase I Markers to Differentiate Australian <i>Cladopelma</i> (Diptera: Chironomidae) Midges. <i>Annals of the Entomological Society of America</i> , 2005 , 98, 587-594	2	32
511	The pest status and distribution of three cryptic blue oat mite species (<i>Penthaleus</i> spp.) and redlegged earth mite (<i>Halotydeus destructor</i>) in southeastern Australia. <i>Experimental and Applied Acarology</i> , 2001 , 25, 699-716	2.1	32
510	LIMITS TO THE SOUTHERN BORDER OF <i>DROSOPHILA SERRATA</i> : COLD RESISTANCE, HERITABLE VARIATION, AND TRADE-OFFS. <i>Evolution; International Journal of Organic Evolution</i> , 1999 , 53, 1823-1834	3.8	32
509	Early adult experience in <i>Drosophila melanogaster</i> . <i>Journal of Insect Physiology</i> , 1988 , 34, 197-204	2.4	32
508	Low evolutionary potential for egg-to-adult viability in <i>Drosophila melanogaster</i> at high temperatures. <i>Evolution; International Journal of Organic Evolution</i> , 2015 , 69, 803-14	3.8	31
507	Predicting the spread of <i>Aedes albopictus</i> in Australia under current and future climates: Multiple approaches and datasets to incorporate potential evolutionary divergence. <i>Austral Ecology</i> , 2014 , 39, 469-478	1.5	31
506	Monitoring long-term evolutionary changes following <i>Wolbachia</i> introduction into a novel host: the <i>Wolbachia</i> popcorn infection in <i>Drosophila simulans</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010 , 277, 2059-68	4.4	31
505	The distribution of wheat curl mite (<i>Aceria tosichella</i>) lineages in Australia and their potential to transmit wheat streak mosaic virus. <i>Annals of Applied Biology</i> , 2009 , 155, 371-379	2.6	31
504	Effect of remnant vegetation, pesticides, and farm management on abundance of the beneficial predator <i>Notonomus gravis</i> (Chaudoir) (Coleoptera: Carabidae). <i>Biological Control</i> , 2008 , 46, 83-93	3.8	31
503	Strategies for control of the redlegged earth mite in Australia. <i>Australian Journal of Experimental Agriculture</i> , 2008 , 48, 1506		31
502	Overwintering of <i>Trichogramma funiculatum</i> Carver (Hymenoptera: Trichogrammatidae) Under Semi-Natural Conditions. <i>Environmental Entomology</i> , 2003 , 32, 290-298	2.1	31
501	INTENSE SELECTION OF MITE CLONES IN A HETEROGENEOUS ENVIRONMENT. <i>Evolution; International Journal of Organic Evolution</i> , 1998 , 52, 1325-1333	3.8	31
500	Cross-Generation Effects for Cold Resistance in Tropical Populations of <i>Drosophila-Melanogaster</i> and <i>Drosophila-Simulans</i> . <i>Australian Journal of Zoology</i> , 1995 , 43, 51	0.5	31
499	Genomic variation predicts adaptive evolutionary responses better than population bottleneck history. <i>PLoS Genetics</i> , 2019 , 15, e1008205	6	30
498	An elusive endosymbiont: Does occur naturally in ?. <i>Ecology and Evolution</i> , 2020 , 10, 1581-1591	2.8	30
497	Gene arrangement and sequence of mitochondrial genomes yield insights into the phylogeny and evolution of bees and sphecid wasps (Hymenoptera: Apoidea). <i>Molecular Phylogenetics and Evolution</i> , 2018 , 124, 1-9	4.1	30
496	<i>Aedes aegypti</i> has spatially structured and seasonally stable populations in Yogyakarta, Indonesia. <i>Parasites and Vectors</i> , 2015 , 8, 610	4	30

495	Pests of germinating grain crops in southern Australia: an overview of their biology and management options. <i>Australian Journal of Experimental Agriculture</i> , 2008 , 48, 1560		30
494	Effects of aphid feeding and associated virus injury on grain crops in Australia. <i>Austral Entomology</i> , 2015 , 54, 292-305	1.1	29
493	Limited benefits of non-crop vegetation on spiders in Australian vineyards: regional or crop differences?. <i>BioControl</i> , 2012 , 57, 541-552	2.3	29
492	Characterizing Trichogramma (Hymenoptera: Trichogrammatidae) Species for Biocontrol of Light Brown Apple Moth (Lepidoptera: Tortricidae) in Grapevines in Australia. <i>Annals of the Entomological Society of America</i> , 1997 , 90, 128-137	2	29
491	The response of the major crop and pasture pest, the red-legged earth mite (Halotydeus destructor) to pesticides: dose-response curves and evidence for tolerance. <i>Experimental and Applied Acarology</i> , 1997 , 21, 151-162	2.1	29
490	Correlations between measures of heat resistance and acclimation in two species of Drosophila and their hybrids. <i>Biological Journal of the Linnean Society</i> , 1998 , 64, 449-462	1.9	29
489	Toxicity of chemicals commonly used in Indonesian vegetable crops to Liriomyza huidobrensis populations and the Indonesian parasitoids Hemiptarsenus varicornis, Opius sp., and Gronotoma micromorpha, as well as the Australian parasitoids Hemiptarsenus varicornis and Diglyphus isaea. <i>Journal of Economic Entomology</i> , 2004 , 97, 1191-7	2.2	29
488	Diapause and implications for control of Penthaleus species and Halotydeus destructor (Acari: Penthaleidae) in southeastern Australia. <i>Experimental and Applied Acarology</i> , 2003 , 31, 209-23	2.1	29
487	Wing Shape and Wing Size Changes as Indicators of Environmental Stress in Helicoverpa punctigera (Lepidoptera: Noctuidae) Moths: Comparing Shifts in Means, Variances, and Asymmetries. <i>Environmental Entomology</i> , 2002 , 31, 965-971	2.1	29
486	The detrimental acclimation hypothesis. <i>Trends in Ecology and Evolution</i> , 2002 , 17, 407-408	10.9	29
485	Effects of pre-adult and adult experience on host acceptance in choice and non-choice tests in two strains of Trichogramma. <i>Entomologia Experimentalis Et Applicata</i> , 1995 , 76, 49-58	2.1	29
484	Heritable Variation for Territorial Success in Field-Collected Drosophila melanogaster. <i>American Naturalist</i> , 1991 , 138, 668-679	3.7	29
483	Genetic mixing for population management: From genetic rescue to provenancing. <i>Evolutionary Applications</i> , 2021 , 14, 634-652	4.8	29
482	Assessing the relative importance of environmental effects, carry-over effects and species differences in thermal stress resistance: a comparison of Drosophilids across field and laboratory generations. <i>Journal of Experimental Biology</i> , 2013 , 216, 3790-8	3	28
481	Contrasting genetic structure between mitochondrial and nuclear markers in the dengue fever mosquito from Rio de Janeiro: implications for vector control. <i>Evolutionary Applications</i> , 2015 , 8, 901-15	4.8	28
480	Effects of long-chain hydrocarbon-polluted sediment on freshwater macroinvertebrates. <i>Environmental Toxicology and Chemistry</i> , 2005 , 24, 2500-8	3.8	28
479	Intense Selection of Mite Clones in a Heterogeneous Environment. <i>Evolution; International Journal of Organic Evolution</i> , 1998 , 52, 1325	3.8	28
478	Can non-destructive DNA extraction of bulk invertebrate samples be used for metabarcoding?. <i>PeerJ</i> , 2018 , 6, e4980	3.1	28

477	Climate adaptation and ecological restoration in eucalypts. <i>Proceedings of the Royal Society of Victoria</i> , 2016 , 128, 40	1.1	27
476	Insecticide resistance status of <i>Aedes aegypti</i> and <i>Aedes albopictus</i> mosquitoes in Papua New Guinea. <i>Parasites and Vectors</i> , 2019 , 12, 333	4	27
475	Experimental Evolution under Fluctuating Thermal Conditions Does Not Reproduce Patterns of Adaptive Clinal Differentiation in <i>Drosophila melanogaster</i> . <i>American Naturalist</i> , 2015 , 186, 582-93	3.7	27
474	Frequency-dependent selection maintains clonal diversity in an asexual organism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 17872-7	11.5	27
473	A microcosm test of adaptation and species specific responses to polluted sediments applicable to indigenous chironomids (Diptera). <i>Environmental Pollution</i> , 2006 , 139, 550-60	9.3	27
472	In search of clinal variation in the period and clock timing genes in Australian <i>Drosophila melanogaster</i> populations. <i>Journal of Evolutionary Biology</i> , 2006 , 19, 551-7	2.3	27
471	Developing an ecotoxicological testing standard for predatory mites in Australia: acute and sublethal effects of fungicides on <i>Euseius victoriensis</i> and <i>Galendromus occidentalis</i> (Acarina: Phytoseiidae). <i>Journal of Economic Entomology</i> , 2004 , 97, 891-9	2.2	27
470	Stable Introduction of Plant-Virus-Inhibiting <i>Wolbachia</i> into Planthoppers for Rice Protection. <i>Current Biology</i> , 2020 , 30, 4837-4845.e5	6.3	27
469	Climatic warming strengthens a positive feedback between alpine shrubs and fire. <i>Global Change Biology</i> , 2017 , 23, 3249-3258	11.4	26
468	A multi-platform metabolomics approach demonstrates changes in energy metabolism and the transsulfuration pathway in <i>Chironomus tepperi</i> following exposure to zinc. <i>Aquatic Toxicology</i> , 2015 , 162, 54-65	5.1	26
467	Laboratory selection for resistance to sulfoxaflor and fitness costs in the green peach aphid <i>Myzus persicae</i> . <i>Journal of Asia-Pacific Entomology</i> , 2018 , 21, 408-412	1.4	26
466	Pyrethroid Susceptibility Has Been Maintained in the Dengue Vector, <i>Aedes aegypti</i> (Diptera: Culicidae), in Queensland, Australia. <i>Journal of Medical Entomology</i> , 2017 , 54, 1649-1658	2.2	26
465	Facilitating <i>Wolbachia</i> introductions into mosquito populations through insecticide-resistance selection. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013 , 280, 20130371	4.4	26
464	Molecular basis of adaptive shift in body size in <i>Drosophila melanogaster</i> : functional and sequence analyses of the <i>Dca</i> gene. <i>Molecular Biology and Evolution</i> , 2011 , 28, 2393-402	8.3	26
463	Low diversity and high levels of population genetic structuring in introduced eastern mosquitofish (<i>Gambusia holbrooki</i>) in the greater Melbourne area, Australia. <i>Biological Invasions</i> , 2010 , 12, 3727-3744	2.7	26
462	Effect of woody vegetation at the landscape scale on the abundance of natural enemies in Australian vineyards. <i>Biological Control</i> , 2010 , 54, 248-254	3.8	26
461	Consistent heritability changes under poor growth conditions. <i>Trends in Ecology and Evolution</i> , 1997 , 12, 460-1	10.9	26
460	Fluctuating asymmetry, fecundity and development time in <i>Drosophila</i> : is there an association under optimal and stress conditions?. <i>Journal of Evolutionary Biology</i> , 2002 , 15, 146-157	2.3	26

459	Identification and characterization of <i>Trichogramma</i> species from south-eastern Australia using the internal transcribed spacer 2 (ITS-2) region of the ribosomal gene complex. <i>Entomologia Experimentalis Et Applicata</i> , 2003 , 106, 235-240	2.1	26
458	Effect of E(sev) and Su(Raf) Hsp83 mutants and trans-heterozygotes on bristle trait means and variation in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2005 , 171, 119-30	4	26
457	Changes in the Heritability of Five Morphological Traits Under Combined Environmental Stresses in <i>Drosophila melanogaster</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1998 , 52, 1207	3.8	26
456	Comparative studies of critical physiological limits and vulnerability to environmental extremes in small ectotherms: How much environmental control is needed?. <i>Integrative Zoology</i> , 2018 , 13, 355-371	1.9	26
455	Climate contributes to the evolution of pesticide resistance. <i>Global Ecology and Biogeography</i> , 2018 , 27, 223-232	6.1	26
454	Genome-wide SNPs reveal the drivers of gene flow in an urban population of the Asian Tiger Mosquito, <i>Aedes albopictus</i> . <i>PLoS Neglected Tropical Diseases</i> , 2017 , 11, e0006009	4.8	25
453	Heritability and evolvability of fitness and nonfitness traits: Lessons from livestock. <i>Evolution; International Journal of Organic Evolution</i> , 2016 , 70, 1770-9	3.8	25
452	Emergence of the overwintering generation of peach fruit moth (<i>Carposina sasakii</i>) depends on diapause and spring soil temperatures. <i>Journal of Insect Physiology</i> , 2016 , 86, 32-9	2.4	25
451	Extensive Genetic Differentiation between Homomorphic Sex Chromosomes in the Mosquito Vector, <i>Aedes aegypti</i> . <i>Genome Biology and Evolution</i> , 2017 , 9, 2322-2335	3.9	25
450	A genetic perspective on insect climate specialists. <i>Australian Journal of Entomology</i> , 2010 , 49, 93-103		25
449	A naturally occurring variant of Hsp90 that is associated with decanalization. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010 , 277, 2049-57	4.4	25
448	High resolution mapping of candidate alleles for desiccation resistance in <i>Drosophila melanogaster</i> under selection. <i>Molecular Biology and Evolution</i> , 2012 , 29, 1335-51	8.3	25
447	Linking inbreeding effects in captive populations with fitness in the wild: release of replicated <i>Drosophila melanogaster</i> lines under different temperatures. <i>Conservation Biology</i> , 2008 , 22, 189-99	6	25
446	Effective trapping methods for assessing invertebrates in vineyards. <i>Australian Journal of Experimental Agriculture</i> , 2004 , 44, 947		25
445	Laboratory fecundity as predictor of field success in <i>Trichogramma carverae</i> (Hymenoptera: Trichogrammatidae). <i>Journal of Economic Entomology</i> , 2002 , 95, 912-7	2.2	25
444	Additional tests on the effects of pesticides on cryptic species of blue oat mite (<i>Penthaleus</i> spp.) and the redlegged earth mite (<i>Halotydeus destructor</i>). <i>Australian Journal of Experimental Agriculture</i> , 2000 , 40, 671		25
443	ESTIMATING THE HERITABILITY OF FLUCTUATING ASYMMETRY IN FIELD DROSOPHILA. <i>Evolution; International Journal of Organic Evolution</i> , 1998 , 52, 816-824	3.8	25
442	The biology of <i>Penthaleus</i> species in southeastern Australia. <i>Entomologia Experimentalis Et Applicata</i> , 1999 , 92, 179-189	2.1	25

441	Inbreeding and incompatibility in <i>Trichogramma</i> nr. brassicae: evidence and implications for quality control. <i>Entomologia Experimentalis Et Applicata</i> , 1996 , 78, 283-290	2.1	25
440	Testing for local adaptation and evolutionary potential along altitudinal gradients in rainforest <i>Drosophila</i> : beyond laboratory estimates. <i>Global Change Biology</i> , 2017 , 23, 1847-1860	11.4	24
439	Rapid genetic structuring of populations of the invasive fall webworm in relation to spatial expansion and control campaigns. <i>Diversity and Distributions</i> , 2016 , 22, 1276-1287	5	24
438	Validation of in vivo magnetic resonance imaging blood-brain barrier permeability measurements by comparison with gold standard histology. <i>Stroke</i> , 2011 , 42, 2054-60	6.7	24
437	A combination of molecular and morphological approaches resolves species in the taxonomically difficult genus <i>Procladius</i> Skuse (Diptera: Chironomidae) despite high intra-specific morphological variation. <i>Bulletin of Entomological Research</i> , 2011 , 101, 505-19	1.7	24
436	Identification of aphid species (Hemiptera: Aphididae: Aphidinae) using a rapid polymerase chain reaction restriction fragment length polymorphism method based on the cytochrome oxidase subunit I gene. <i>Australian Journal of Entomology</i> , 2007 , 46, 305-312		24
435	Evidence for host-associated clones of grape phylloxera <i>Daktulosphaira vitifoliae</i> (Hemiptera: Phylloxeridae) in Australia. <i>Bulletin of Entomological Research</i> , 2003 , 93, 193-201	1.7	24
434	Dispersal patterns of pest earth mites (Acari: Penthaleidae) in pastures and crops. <i>Journal of Economic Entomology</i> , 2000 , 93, 1415-23	2.2	24
433	HERITABLE VARIATION FOR FECUNDITY IN FIELD-COLLECTED <i>DROSOPHILA MELANOGASTER</i> AND THEIR OFFSPRING REARED UNDER DIFFERENT ENVIRONMENTAL TEMPERATURES. <i>Evolution; International Journal of Organic Evolution</i> , 1998 , 52, 134-143	3.8	24
432	Resistance to Pyrethroids in <i>Helicoverpa armigera</i> (Lepidoptera: Noctuidae) from Corn: Adult Resistance, Larval Resistance, and Fitness Effects. <i>Journal of Economic Entomology</i> , 1994 , 87, 1165-1171	2.2	24
431	Vertical Transmission of Is Associated With Host Vitellogenin in. <i>Frontiers in Microbiology</i> , 2018 , 9, 2016	5.7	24
430	Tracking genetic invasions: Genome-wide single nucleotide polymorphisms reveal the source of pyrethroid-resistant (yellow fever mosquito) incursions at international ports. <i>Evolutionary Applications</i> , 2019 , 12, 1136-1146	4.8	23
429	Rapid loss of genetic variation in an endangered possum. <i>Biology Letters</i> , 2008 , 4, 134-8	3.6	23
428	Environmental Effects on Remating in <i>Drosophila melanogaster</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1988 , 42, 312	3.8	23
427	Does thermal variability experienced at the egg stage influence life history traits across life cycle stages in a small invertebrate?. <i>PLoS ONE</i> , 2014 , 9, e99500	3.7	23
426	Rapid adaptation of invertebrate pests to climatic stress?. <i>Current Opinion in Insect Science</i> , 2017 , 21, 7-13	5.1	22
425	Wolbachia-induced apoptosis associated with increased fecundity in <i>Laodelphax striatellus</i> (Hemiptera: Delphacidae). <i>Insect Molecular Biology</i> , 2018 , 27, 796-807	3.4	22
424	Divergent levels of genetic variation and ploidy among populations of the rare shrub, <i>Grevillea repens</i> (Proteaceae). <i>Conservation Genetics</i> , 2009 , 10, 827-837	2.6	22

423	The popcorn Wolbachia infection of <i>Drosophila melanogaster</i> : can selection alter Wolbachia longevity effects?. <i>Evolution; International Journal of Organic Evolution</i> , 2009 , 63, 2648-57	3.8	22
422	Lack of genetic structure among ecologically adapted populations of an Australian rainforest <i>Drosophila</i> species as indicated by microsatellite markers and mitochondrial DNA sequences. <i>Molecular Ecology</i> , 2007 , 16, 1687-700	5.7	22
421	Global warming: fly populations are responding rapidly to climate change. <i>Current Biology</i> , 2007 , 17, R16-8	6.3	22
420	Does mass rearing of field collected <i>Trichogramma brassicae</i> wasps influence acceptance of European corn borer eggs?. <i>Entomologia Experimentalis Et Applicata</i> , 2003 , 109, 197-203	2.1	22
419	Distribution of <i>Drosophila serrata</i> Malloch (Diptera: Drosophilidae) in Australia with particular reference to the southern border. <i>Australian Journal of Entomology</i> , 2001 , 40, 41-48		22
418	LEVELS OF VARIATION IN STRESS RESISTANCE IN DROSOPHILA AMONG STRAINS, LOCAL POPULATIONS, AND GEOGRAPHIC REGIONS: PATTERNS FOR DESICCATION, STARVATION, COLD RESISTANCE, AND ASSOCIATED TRAITS. <i>Evolution; International Journal of Organic Evolution</i> , 2001 , 55, 1121	3.8	22
417	Can high-throughput sequencing detect macroinvertebrate diversity for routine monitoring of an urban river?. <i>Ecological Indicators</i> , 2018 , 85, 440-450	5.8	22
416	Low genetic diversity but strong population structure reflects multiple introductions of western flower thrips (Thysanoptera: Thripidae) into China followed by human-mediated spread. <i>Evolutionary Applications</i> , 2017 , 10, 391-401	4.8	21
415	Bioclimatic transect networks: Powerful observatories of ecological change. <i>Ecology and Evolution</i> , 2017 , 7, 4607-4619	2.8	21
414	An International Union for the Conservation of Nature Red List ecosystems risk assessment for alpine snow patch herbfields, South-Eastern Australia. <i>Austral Ecology</i> , 2015 , 40, 433-443	1.5	21
413	Hsp90 inhibition and the expression of phenotypic variability in the rainforest species <i>Drosophila birchii</i> . <i>Biological Journal of the Linnean Society</i> , 2007 , 92, 457-465	1.9	21
412	Competitive interactions between two pest species of earth mites, <i>Halotydeus destructor</i> and <i>Penthaleus major</i> (Acarina: Penthaleidae). <i>Journal of Economic Entomology</i> , 2000 , 93, 1183-91	2.2	21
411	CHANGES IN THE HERITABILITY OF FIVE MORPHOLOGICAL TRAITS UNDER COMBINED ENVIRONMENTAL STRESSES IN DROSOPHILA MELANOGASTER. <i>Evolution; International Journal of Organic Evolution</i> , 1998 , 52, 1207-1212	3.8	21
410	The effects of acclimation and rearing conditions on the response of tropical and temperate populations of <i>Drosophila melanogaster</i> and <i>D. simulans</i> to a temperature gradient (Diptera: Drosophilidae). <i>Journal of Insect Behavior</i> , 1994 , 7, 279-288	1.1	21
409	Local thermal adaptation and limited gene flow constrain future climate responses of a marine ecosystem engineer. <i>Evolutionary Applications</i> , 2020 , 13, 918-934	4.8	21
408	Tropical <i>Drosophila pandora</i> carry Wolbachia infections causing cytoplasmic incompatibility or male killing. <i>Evolution; International Journal of Organic Evolution</i> , 2016 , 70, 1791-802	3.8	21
407	Cross-Study Comparison Reveals Common Genomic, Network, and Functional Signatures of Desiccation Resistance in <i>Drosophila melanogaster</i> . <i>Molecular Biology and Evolution</i> , 2016 , 33, 1053-67	8.3	21
406	Rapid spread of a Wolbachia infection that does not affect host reproduction in <i>Drosophila simulans</i> cage populations. <i>Evolution; International Journal of Organic Evolution</i> , 2018 , 72, 1475	3.8	21

405	Wolbachia-induced loss of male fertility is likely related to branch chain amino acid biosynthesis and iLVE in <i>Laodelphax striatellus</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2017 , 85, 11-20	4.5	20
404	A cryptic diapause strategy in <i>Halotydeus destructor</i> (Tucker) (Trombidiformes: Penthalidae) induced by multiple cues. <i>Pest Management Science</i> , 2018 , 74, 2618-2625	4.6	20
403	Mitochondrial DNA variants help monitor the dynamics of Wolbachia invasion into host populations. <i>Heredity</i> , 2016 , 116, 265-76	3.6	20
402	Delineating closely related species with DNA barcodes for routine biological monitoring. <i>Freshwater Biology</i> , 2015 , 60, 1545-1560	3.1	20
401	A single hot event stimulates adult performance but reduces egg survival in the oriental fruit moth, <i>Grapholitha molesta</i> . <i>PLoS ONE</i> , 2014 , 9, e116339	3.7	20
400	Invasion of Wolbachia at the residential block level is associated with local abundance of <i>Stegomyia aegypti</i> , yellow fever mosquito, populations and property attributes. <i>Medical and Veterinary Entomology</i> , 2014 , 28 Suppl 1, 90-7	2.4	20
399	New levels of transcriptome complexity at upper thermal limits in wild <i>Drosophila</i> revealed by exon expression analysis. <i>Genetics</i> , 2013 , 195, 809-30	4	20
398	Mortality of Australian alpine grasses (<i>Poa</i> spp.) after drought: species differences and ecological patterns. <i>Journal of Plant Ecology</i> , 2012 , 5, 121-133	1.7	20
397	The effects of sediment quality on benthic macroinvertebrates in the River Murray, Australia. <i>Marine and Freshwater Research</i> , 2009 , 60, 70	2.2	20
396	Separating the Effects of Experience, Size, Egg Load, and Genotype on Host Response in <i>Trichogramma</i> (Hymenoptera: Trichogrammatidae). <i>Journal of Insect Behavior</i> , 1998 , 11, 129-148	1.1	20
395	Ecologically Sustainable Chemical Recommendations for Agricultural Pest Control?. <i>Journal of Economic Entomology</i> , 2007 , 100, 1741-1750	2.2	20
394	Pesticide applications on Java potato fields are ineffective in controlling leafminers, and have antagonistic effects on natural enemies of leafminers. <i>International Journal of Pest Management</i> , 2005 , 51, 181-187	1.5	20
393	Is the heritability for courtship and mating speed in <i>Drosophila</i> (fruit fly) low?. <i>Heredity</i> , 1999 , 82 (Pt 2), 158-62	3.6	20
392	Mitochondrial DNA Polymorphism and Cytoplasmic Incompatibility in Natural Populations of <i>Drosophila simulans</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1990 , 44, 1383	3.8	20
391	A field cage test of the effects of the endosymbiont Wolbachia on <i>Drosophila melanogaster</i>		20
390	Interspecific Variation in the Response of <i>Drosophila</i> to Chemicals and Fruit Odours in a Wind Tunnel.. <i>Australian Journal of Zoology</i> , 1985 , 33, 451	0.5	20
389	The Effect of Resource Subdivision on Genetic Variation in <i>Drosophila</i> . <i>American Naturalist</i> , 1985 , 125, 421-430	3.7	20
388	Contrasting patterns of population connectivity between regions in a commercially important mollusc <i>Haliotis rubra</i> : integrating population genetics, genomics and marine LiDAR data. <i>Molecular Ecology</i> , 2016 , 25, 3845-64	5.7	20

387	Escalating insecticide resistance in Australian grain pests: contributing factors, industry trends and management opportunities. <i>Pest Management Science</i> , 2019 , 75, 1494-1506	4.6	20
386	Cross-Generational Effects of Heat Stress on Fitness and Wolbachia Density in <i>Aedes aegypti</i> Mosquitoes. <i>Tropical Medicine and Infectious Disease</i> , 2019 , 4,	3.5	20
385	Microgeographic adaptation linked to forest fragmentation and habitat quality in the tropical fruit fly <i>Drosophila birchii</i> . <i>Oikos</i> , 2012 , 121, 1627-1637	4	19
384	Distribution of cryptic blue oat mite species in Australia: current and future climate conditions. <i>Agricultural and Forest Entomology</i> , 2012 , 14, 127-137	1.9	19
383	Patterns of genetic variation across inversions: geographic variation in the In(2L)t inversion in populations of <i>Drosophila melanogaster</i> from eastern Australia. <i>BMC Evolutionary Biology</i> , 2013 , 13, 100	3	19
382	Comparative phylogeography of alpine invertebrates indicates deep lineage diversification and historical refugia in the Australian Alps. <i>Journal of Biogeography</i> , 2015 , 42, 89-102	4.1	19
381	Female encounter rates and fighting costs of males are associated with lek size in <i>Drosophila mycetophaga</i> . <i>Behavioral Ecology and Sociobiology</i> , 1998 , 42, 163-169	2.5	19
380	Beneficial organisms as bioindicators for environmental sustainability in the grape industry in Australia. <i>Australian Journal of Experimental Agriculture</i> , 2007 , 47, 404		19
379	Fine-scale genetic structure of grape phylloxera from the roots and leaves of <i>Vitis</i> . <i>Heredity</i> , 2004 , 92, 118-27	3.6	19
378	Thermal adaptation in <i>Drosophila serrata</i> under conditions linked to its southern border: unexpected patterns from laboratory selection suggest limited evolutionary potential. <i>Journal of Genetics</i> , 2003 , 82, 179-89	1.2	19
377	Monitoring salt stress in grapevines: are measures of plant trait variability useful?. <i>Journal of Applied Ecology</i> , 2003 , 40, 928-937	5.8	19
376	Geographic variation in the territorial success of <i>Drosophila melanogaster</i> males. <i>Behavior Genetics</i> , 1989 , 19, 241-55	3.2	19
375	Temperatures that sterilize males better match global species distributions than lethal temperatures. <i>Nature Climate Change</i> , 2021 , 11, 481-484	21.4	19
374	Landscape genomics reveals altered genome wide diversity within revegetated stands of <i>Eucalyptus microcarpa</i> (Grey Box). <i>New Phytologist</i> , 2016 , 212, 992-1006	9.8	18
373	Maintaining <i>Aedes aegypti</i> Mosquitoes Infected with Wolbachia. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	18
372	Environmental stress-dependent effects of deletions encompassing Hsp70Ba on canalization and quantitative trait asymmetry in <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2011 , 6, e17295	3.7	18
371	Impact of groundcover manipulations within windbreaks on mite pests and their natural enemies. <i>Australian Journal of Entomology</i> , 2011 , 50, 37-47		18
370	Did hybridization save the Norfolk Island boobook owl <i>Ninox novaeseelandiae undulata</i> ?. <i>Oryx</i> , 2011 , 45, 500-504	1.5	18

369	Changes in Grape Phylloxera Abundance in Ungrafted Vineyards. <i>Journal of Economic Entomology</i> , 2006 , 99, 1774-1783	2.2	18
368	Developing an Ecotoxicological Testing Standard for Predatory Mites in Australia: Acute and Sublethal Effects of Fungicides on <i>Euseius victoriensis</i> and <i>Galendromus occidentalis</i> (Acarina: Phytoseiidae). <i>Journal of Economic Entomology</i> , 2004 , 97, 891-899	2.2	18
367	Field dispersal and host location of <i>Trichogramma brassicae</i> is influenced by wing size but not wing shape. <i>Biological Control</i> , 2004 , 31, 1-10	3.8	18
366	Resistance to temperature extremes between and within life cycle stages in <i>Drosophila serrata</i> , <i>D. birchii</i> and their hybrids: intraspecific and interspecific comparisons. <i>Biological Journal of the Linnean Society</i> , 2000 , 71, 403-416	1.9	18
365	Plant cues influence searching behaviour and parasitism in the egg parasitoid <i>Trichogramma nr. brassicae</i> . <i>Ecological Entomology</i> , 1998 , 23, 355-362	2.1	18
364	A TEST OF THE ROLE OF EPISTASIS IN DIVERGENCE UNDER UNIFORM SELECTION. <i>Evolution; International Journal of Organic Evolution</i> , 1989 , 43, 766-774	3.8	18
363	Using invertebrate bioindicators to assess agricultural sustainability in Australia: proposals and current practices. <i>Australian Journal of Experimental Agriculture</i> , 2007 , 47, 379		18
362	Response of heat shock protein genes of the oriental fruit moth under diapause and thermal stress reveals multiple patterns dependent on the nature of stress exposure. <i>Cell Stress and Chaperones</i> , 2016 , 21, 653-63	4	18
361	Summer diapause intensity influenced by parental and offspring environmental conditions in the pest mite, <i>Halotydeus destructor</i> . <i>Journal of Insect Physiology</i> , 2019 , 114, 92-99	2.4	17
360	Heterogeneous genetic invasions of three insecticide resistance mutations in Indo-Pacific populations of <i>Aedes aegypti</i> (L.). <i>Molecular Ecology</i> , 2020 , 29, 1628-1641	5.7	17
359	A genomic approach to identify and monitor a novel pyrethroid resistance mutation in the redlegged earth mite, <i>Halotydeus destructor</i> . <i>Pesticide Biochemistry and Physiology</i> , 2018 , 144, 83-90	4.9	17
358	Warming Accelerates Carbohydrate Consumption in the Diapausing Overwintering Peach Fruit Moth <i>Carposina sasakii</i> (Lepidoptera: Carposinidae). <i>Environmental Entomology</i> , 2016 , 45, 1287-1293	2.1	17
357	Complexity of the genetic basis of ageing in nature revealed by a clinal study of lifespan and methuselah, a gene for ageing, in <i>Drosophila</i> from eastern Australia. <i>Molecular Ecology</i> , 2013 , 22, 3539-51	5.7	17
356	Influence of native ants on arthropod communities in a vineyard. <i>Agricultural and Forest Entomology</i> , 2010 , 12, 223	1.9	17
355	Population genetics of the wheat curl mite (<i>Aceria tosichella</i> Keifer) in Australia: implications for the management of wheat pathogens. <i>Bulletin of Entomological Research</i> , 2012 , 102, 199-212	1.7	17
354	Microsatellite markers and mtDNA data indicate two distinct groups in dwarf galaxias, <i>Galaxiella pusilla</i> (Mack) (Pisces: Galaxiidae), a threatened freshwater fish from south-eastern Australia. <i>Conservation Genetics</i> , 2010 , 11, 1911-1928	2.6	17
353	Slug control in Australian canola: monitoring, molluscicidal baits and economic thresholds. <i>Pest Management Science</i> , 2007 , 63, 851-9	4.6	17
352	Translational asymmetry as a sensitive indicator of cadmium stress in plants: a laboratory test with wild-type and mutant <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2003 , 159, 471-477	9.8	17

351	Laboratory Fecundity as Predictor of Field Success in <i>Trichogramma carverae</i> (Hymenoptera: Trichogrammatidae). <i>Journal of Economic Entomology</i> , 2002 , 95, 912-917	2.2	17
350	Estimating the Heritability of Fluctuating Asymmetry in Field <i>Drosophila</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1998 , 52, 816	3.8	17
349	HERITABLE VARIATION IN RESOURCE UTILIZATION AND RESPONSE IN A WINERY POPULATION OF <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1991 , 45, 1000-1015	3.8	17
348	Numerical Changes and Resource Utilization in Orchard Populations of <i>Drosophila</i> .. <i>Australian Journal of Zoology</i> , 1985 , 33, 875	0.5	17
347	Environmental variation partitioned into separate heritable components. <i>Evolution; International Journal of Organic Evolution</i> , 2018 , 72, 136-152	3.8	17
346	Local and regional scale habitat heterogeneity contribute to genetic adaptation in a commercially important marine mollusc (<i>Haliotis rubra</i>) from southeastern Australia. <i>Molecular Ecology</i> , 2019 , 28, 3053-3072	5.7	16
345	Chromosome-level assembly of the melon thrips genome yields insights into evolution of a sap-sucking lifestyle and pesticide resistance. <i>Molecular Ecology Resources</i> , 2020 , 20, 1110-1125	8.4	16
344	Recent infection by <i>Wolbachia</i> alters microbial communities in wild <i>Laodelphax striatellus</i> populations. <i>Microbiome</i> , 2020 , 8, 104	16.6	16
343	Continued Susceptibility of the Mel Infection in to Heat Stress Following Field Deployment and Selection. <i>Insects</i> , 2018 , 9,	2.8	16
342	A <i>Wolbachia</i> infection from <i>Drosophila</i> that causes cytoplasmic incompatibility despite low prevalence and densities in males. <i>Heredity</i> , 2019 , 122, 428-440	3.6	16
341	Detecting copper toxicity in sediments: from the subindividual level to the population level. <i>Journal of Applied Ecology</i> , 2017 , 54, 1331-1342	5.8	16
340	Food limitation in <i>Chironomus tepperi</i> : effects on survival, sex ratios and development across two generations. <i>Ecotoxicology and Environmental Safety</i> , 2012 , 84, 1-8	7	16
339	Effective invertebrate pest management in dryland cropping in southern Australia: The challenge of marginality. <i>Crop Protection</i> , 2012 , 42, 289-304	2.7	16
338	Polymorphism in the neurofibromin gene, <i>Nf1</i> , is associated with antagonistic selection on wing size and development time in <i>Drosophila melanogaster</i> . <i>Molecular Ecology</i> , 2013 , 22, 2716-25	5.7	16
337	Identifying factors determining the altitudinal distribution of the invasive pest leafminers <i>Liriomyza huidobrensis</i> and <i>Liriomyza sativae</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2010 , 135, 141-153	2.1	16
336	Lack of Strong Local Adaptation in the Alpine Forb <i>Craspedia lamicola</i> in Southeastern Australia. <i>International Journal of Plant Sciences</i> , 2009 , 170, 906-917	2.6	16
335	Effects of sediment quality on macroinvertebrates in the Sunraysia region of the Murray-Darling Rivers, Australia. <i>Environmental Pollution</i> , 2008 , 156, 689-98	9.3	16
334	Developing and testing a diagnostic probe for grape phylloxera applicable to soil samples. <i>Journal of Economic Entomology</i> , 2008 , 101, 1934-43	2.2	16

333	Fighting fly genes. <i>Trends in Genetics</i> , 2007 , 23, 51-4	8.5	16
332	Inversion frequencies in <i>Drosophila serrata</i> along an eastern Australian transect. <i>Genome</i> , 2004 , 47, 1144-53	5.3	16
331	Geographic patterns of clonal diversity in the earth mite species <i>Penthaeus major</i> with particular emphasis on species margins. <i>Evolution; International Journal of Organic Evolution</i> , 2002 , 56, 1160-7	3.8	16
330	Emerging pest mites of grains (<i>Balaustium medicagoense</i> and <i>Bryobia</i> sp.) show high levels of tolerance to currently registered pesticides. <i>Australian Journal of Experimental Agriculture</i> , 2008 , 48, 1126		16
329	Scale-dependent thermal tolerance variation in Australian mountain grasshoppers. <i>Ecography</i> , 2016 , 39, 572-582	6.5	16
328	Effects of <i>Lumbriculus variegatus</i> (Annelida, Oligochaete) bioturbation on zinc sediment chemistry and toxicity to the epi-benthic invertebrate <i>Chironomus tepperi</i> (Diptera: Chironomidae). <i>Environmental Pollution</i> , 2016 , 216, 198-207	9.3	16
327	Potential impact of climate change on parasitism efficiency of egg parasitoids: A meta-analysis of <i>Trichogramma</i> under variable climate conditions. <i>Agriculture, Ecosystems and Environment</i> , 2016 , 231, 143-155	5.7	16
326	The spread of resistance to imidacloprid is restricted by thermotolerance in natural populations of <i>Drosophila melanogaster</i> . <i>Nature Ecology and Evolution</i> , 2019 , 3, 647-656	12.3	15
325	Ground cover and floral resources in shelterbelts increase the abundance of beneficial hymenopteran families. <i>Agricultural and Forest Entomology</i> , 2015 , 17, 120-128	1.9	15
324	<i>Aedes aegypti</i> insecticide resistance underlies the success (and failure) of <i>Wolbachia</i> population replacement. <i>Scientific Reports</i> , 2020 , 10, 63	4.9	15
323	Biodiversity responds to increasing climatic extremes in a biome-specific manner. <i>Science of the Total Environment</i> , 2018 , 634, 382-393	10.2	15
322	Strong impact of thermal environment on the quantitative genetic basis of a key stress tolerance trait. <i>Heredity</i> , 2019 , 122, 315-325	3.6	15
321	Evidence of cryptic genetic lineages within <i>Aedes notoscriptus</i> (Skuse). <i>Infection, Genetics and Evolution</i> , 2013 , 18, 191-201	4.5	15
320	No inbreeding depression for low temperature developmental acclimation across multiple <i>Drosophila</i> species. <i>Evolution; International Journal of Organic Evolution</i> , 2011 , 65, 3195-201	3.8	15
319	Immunocontraception for population control: will resistance evolve?. <i>Immunology and Cell Biology</i> , 2003 , 81, 152-9	5	15
318	Desiccation and starvation resistance in <i>Drosophila</i> : patterns of variation at the species, population and intrapopulation levels		15
317	strain AlbB maintains high density and dengue inhibition following introduction into a field population of. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021 , 376, 20190809	5.8	15
316	Genetic analysis along an invasion pathway reveals endemic cryptic taxa, but a single species with little population structure in the introduced range. <i>Diversity and Distributions</i> , 2016 , 22, 57-72	5	15

315	Chromosome-level genome of the peach fruit moth <i>Carposina sasakii</i> (Lepidoptera: Carposinidae) provides a resource for evolutionary studies on moths. <i>Molecular Ecology Resources</i> , 2021 , 21, 834-848	8.4	15
314	The importance of timing of heat events for predicting the dynamics of aphid pest populations. <i>Pest Management Science</i> , 2019 , 75, 1866-1874	4.6	14
313	Modeling rates of life form cover change in burned and unburned alpine heathland subject to experimental warming. <i>Oecologia</i> , 2015 , 178, 615-28	2.9	14
312	How well do revegetation plantings capture genetic diversity?. <i>Biology Letters</i> , 2019 , 15, 20190460	3.6	14
311	Genes involved in cysteine metabolism of <i>Chironomus tepperi</i> are regulated differently by copper and by cadmium. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2014 , 162, 1-6	3.2	14
310	A collection of Australian <i>Drosophila</i> datasets on climate adaptation and species distributions. <i>Scientific Data</i> , 2015 , 2, 150067	8.2	14
309	The ReFuGe 2020 Consortium Using Omics Approaches to explore the adaptability and resilience of coral holobionts to environmental change. <i>Frontiers in Marine Science</i> , 2015 , 2,	4.5	14
308	Strong genetic structure corresponds to small-scale geographic breaks in the Australian alpine grasshopper <i>Kosciuscola tristis</i> . <i>BMC Evolutionary Biology</i> , 2014 , 14, 204	3	14
307	Effect of Wolbachia on insecticide susceptibility in lines of <i>Aedes aegypti</i> . <i>Bulletin of Entomological Research</i> , 2013 , 103, 269-77	1.7	14
306	Commercial Agrochemical Applications in Vineyards Do Not Influence Ant Communities. <i>Environmental Entomology</i> , 2007 , 36, 1374-1383	2.1	14
305	THE CONTRASTING GENETIC ARCHITECTURE OF WING SIZE, VIABILITY, AND DEVELOPMENT TIME IN A RAINFOREST SPECIES AND ITS MORE WIDELY DISTRIBUTED RELATIVE. <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 106-114	3.8	14
304	Reply from L.G. Harshman and A.A. Hoffmann. <i>Trends in Ecology and Evolution</i> , 2000 , 15, 207	10.9	14
303	Additional data on <i>Trypanosoma cruzi</i> isozymic strains encountered in Bolivian domestic transmission cycles. <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> , 1986 , 80, 442-7	2	14
302	Validating measurements of acclimation for climate change adaptation. <i>Current Opinion in Insect Science</i> , 2020 , 41, 7-16	5.1	14
301	The response to flooding of two overwintering rice stem borers likely accounts for their changing impacts. <i>Journal of Pest Science</i> , 2021 , 94, 451-461	5.5	14
300	Multiple refugia from penultimate glaciations in East Asia demonstrated by phylogeography and ecological modelling of an insect pest. <i>BMC Evolutionary Biology</i> , 2018 , 18, 152	3	14
299	Predicting the spatial dynamics of Wolbachia infections in <i>Aedes aegypti</i> arbovirus vector populations in heterogeneous landscapes. <i>Journal of Applied Ecology</i> , 2019 , 56, 1674-1686	5.8	13
298	Population analysis reveals genetic structure of an invasive agricultural thrips pest related to invasion of greenhouses and suitable climatic space. <i>Evolutionary Applications</i> , 2019 , 12, 1868-1880	4.8	13

297	Limited genetic divergence among Australian alpine <i>Poa</i> tussock grasses coupled with regional structuring points to ongoing gene flow and taxonomic challenges. <i>Annals of Botany</i> , 2014 , 113, 953-65	4.1	13
296	Transgenerational effects of parental nutritional status on offspring development time, survival, fecundity, and sensitivity to zinc in <i>Chironomus tepperi</i> midges. <i>Ecotoxicology and Environmental Safety</i> , 2014 , 110, 1-7	7	13
295	Stress Responses of Small Heat Shock Protein Genes in Lepidoptera Point to Limited Conservation of Function across Phylogeny. <i>PLoS ONE</i> , 2015 , 10, e0132700	3.7	13
294	Predicting the timing of first generation egg hatch for the pest redlegged earth mite <i>Halotydeus destructor</i> (Acari: Pentheleidae). <i>Experimental and Applied Acarology</i> , 2015 , 65, 259-76	2.1	13
293	Pest management challenges for biofuel crop production. <i>Current Opinion in Environmental Sustainability</i> , 2011 , 3, 95-99	7.2	13
292	Effectiveness of spring spraying targeting diapause egg production for controlling redlegged earth mites and other pests in pasture. <i>Australian Journal of Experimental Agriculture</i> , 2008 , 48, 1118		13
291	Genome-wide transcription analysis of clinal genetic variation in <i>Drosophila</i> . <i>PLoS ONE</i> , 2012 , 7, e34620	3.7	13
290	Toxicity of seven insecticides to different developmental stages of the whitefly <i>Bemisia tabaci</i> MED (Hemiptera: Aleyrodidae) in multiple field populations of China. <i>Ecotoxicology</i> , 2018 , 27, 742-751	2.9	13
289	Evidence for adaptive divergence of thermal responses among <i>Bemisia tabaci</i> populations from tropical Colombia following a recent invasion. <i>Journal of Evolutionary Biology</i> , 2014 , 27, 1160-71	2.3	12
288	Testing the niche-breadth-range-size hypothesis: habitat specialization vs. performance in Australian alpine daisies. <i>Ecology</i> , 2017 , 98, 2708-2724	4.6	12
287	A review of <i>Galaxiella pusilla</i> (Mack) (Teleostei: Galaxiidae) in south-eastern Australia with a description of a new species. <i>Zootaxa</i> , 2015 , 4021, 243-81	0.5	12
286	Facilitating <i>Wolbachia</i> invasions. <i>Austral Entomology</i> , 2014 , 53, 125-132	1.1	12
285	Genetic variation among <i>Helicoverpa armigera</i> populations as assessed by microsatellites: a cautionary tale about accurate allele scoring. <i>Bulletin of Entomological Research</i> , 2010 , 100, 445-50	1.7	12
284	Clone lineages of grape phylloxera differ in their performance on <i>Vitis vinifera</i> . <i>Bulletin of Entomological Research</i> , 2010 , 100, 671-8	1.7	12
283	Assaying the potential benefits of thiamethoxam and imidacloprid for phylloxera suppression and improvements to grapevine vigour. <i>Crop Protection</i> , 2008 , 27, 1229-1236	2.7	12
282	Heritable Variation for Fecundity in Field-Collected <i>Drosophila melanogaster</i> and Their Offspring Reared Under Different Environmental Temperatures. <i>Evolution; International Journal of Organic Evolution</i> , 1998 , 52, 134	3.8	12
281	Effects of starvation and experience on the response of <i>Drosophila</i> to alternative resources. <i>Oecologia</i> , 1988 , 77, 497-505	2.9	12
280	Habitat marking: males attracted to residual odors of two <i>Drosophila</i> species. <i>Experientia</i> , 1984 , 40, 763-765		12

279	Conservation genetics as a management tool: The five best-supported paradigms to assist the management of threatened species.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	12
278	Trait associations across evolutionary time within a drosophila phylogeny: correlated selection or genetic constraint?. <i>PLoS ONE</i> , 2013 , 8, e72072	3.7	12
277	Ecologically sustainable chemical recommendations for agricultural pest control?. <i>Journal of Economic Entomology</i> , 2007 , 100, 1741-50	2.2	12
276	Evidence for an Association between Nonadditive Genetic Variation and Extreme Expression of a Trait. <i>American Naturalist</i> , 1996 , 148, 576-587	3.7	12
275	Trichogramma parasitoids for control of Lepidopteran borers in Taiwan: species, life-history traits and Wolbachia infections. <i>Journal of Applied Entomology</i> , 2016 , 140, 353-363	1.7	12
274	A change in the bacterial community of spider mites decreases fecundity on multiple host plants. <i>MicrobiologyOpen</i> , 2019 , 8, e00743	3.4	12
273	Infertility and fecundity loss of Wolbachia-infected <i>Aedes aegypti</i> hatched from quiescent eggs is expected to alter invasion dynamics. <i>PLoS Neglected Tropical Diseases</i> , 2021 , 15, e0009179	4.8	12
272	Evolutionary divergence of mitochondrial genomes in two <i>Tetranychus</i> species distributed across different climates. <i>Insect Molecular Biology</i> , 2018 , 27, 698-709	3.4	12
271	Environmental Concentrations of Antibiotics May Diminish Wolbachia infections in <i>Aedes aegypti</i> (Diptera: Culicidae). <i>Journal of Medical Entomology</i> , 2019 , 56, 1078-1086	2.2	11
270	Field margins provide a refuge for pest genes beneficial to resistance management. <i>Journal of Pest Science</i> , 2019 , 92, 1017-1026	5.5	11
269	Genetic structure of the whitefly <i>Bemisia tabaci</i> populations in Colombia following a recent invasion. <i>Insect Science</i> , 2015 , 22, 483-94	3.6	11
268	Assessing the current and future biological control potential of <i>Trichogramma ostrinae</i> on its hosts <i>Ostrinia furnacalis</i> and <i>Ostrinia nubilalis</i> . <i>Pest Management Science</i> , 2018 , 74, 1513-1523	4.6	11
267	Comparing the impacts of sediment-bound bifenthrin on aquatic macroinvertebrates in laboratory bioassays and field microcosms. <i>Ecotoxicology and Environmental Safety</i> , 2016 , 133, 489-500	7	11
266	Identification of two lineages of host-associated eriophyoid mites predisposed to different levels of host diversification. <i>Molecular Phylogenetics and Evolution</i> , 2016 , 105, 235-240	4.1	11
265	Major range loss predicted from lack of heat adaptability in an alpine <i>Drosophila</i> species. <i>Science of the Total Environment</i> , 2019 , 695, 133753	10.2	11
264	Measuring the effects of reduced snow cover on Australia's alpine arthropods. <i>Austral Ecology</i> , 2017 , 42, 844-857	1.5	11
263	Phylogeny of the holly grevilleas (Proteaceae) based on nuclear ribosomal and chloroplast DNA. <i>Australian Systematic Botany</i> , 2014 , 27, 56	1	11
262	Synthetic pesticides in agro-ecosystems: are they as detrimental to nontarget invertebrate fauna as we suspect?. <i>Journal of Economic Entomology</i> , 2013 , 106, 756-75	2.2	11

261	Patterns of Genetic Variation and Host Adaptation in an Invasive Population of <i>Rhopalosiphum padi</i> (Hemiptera: Aphididae). <i>Annals of the Entomological Society of America</i> , 2010 , 103, 886-897	2	11
260	Toxicity of Chemicals Commonly Used in Indonesian Vegetable Crops to <i>Liriomyza huidobrensis</i> Populations and the Indonesian Parasitoids <i>Hemiptarsenus varicornis</i> , <i>Opius</i> sp., and <i>Gronotoma micromorpha</i> , as well as the Australian parasitoids <i>Hemiptarsenus varicornis</i> and <i>Diglyphus isaea</i> . <i>Journal of Economic Entomology</i> , 2011 , 44, 1121-1127	2.2	11
259	Does interspecific hybridization influence evolutionary rates? An experimental study of laboratory adaptation in hybrids between <i>Drosophila serrata</i> and <i>Drosophila birchii</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1999 , 266, 2195-200	4.4	11
258	Environmental stress and the expression of genetic variation. <i>Exs</i> , 1997 , 83, 79-96		11
257	The queenslandensis and the type Form of the Dengue Fever Mosquito (<i>Aedes aegypti</i> L.) Are Genomically Indistinguishable. <i>PLoS Neglected Tropical Diseases</i> , 2016 , 10, e0005096	4.8	11
256	Novel applications of thermocyclers for phenotyping invertebrate thermal responses. <i>Methods in Ecology and Evolution</i> , 2016 , 7, 1201-1208	7.7	11
255	Does membrane feeding compromise the quality of <i>Aedes aegypti</i> mosquitoes?. <i>PLoS ONE</i> , 2019 , 14, e0224268	3.7	11
254	Pyrethroid resistance in the pest mite, <i>Halotydeus destructor</i> : Dominance patterns and a new method for resistance screening. <i>Pesticide Biochemistry and Physiology</i> , 2019 , 159, 9-16	4.9	10
253	A transcriptional and functional analysis of heat hardening in two invasive fruit fly species, and. <i>Evolutionary Applications</i> , 2019 , 12, 1147-1163	4.8	10
252	Independently evolved and gene flow-accelerated pesticide resistance in two-spotted spider mites. <i>Ecology and Evolution</i> , 2019 , 9, 2206-2219	2.8	10
251	Orthonome - a new pipeline for predicting high quality orthologue gene sets applicable to complete and draft genomes. <i>BMC Genomics</i> , 2017 , 18, 673	4.5	10
250	A Meta-Analysis Evaluating the Relationship between Aquatic Contaminants and Chironomid Larval Deformities in Laboratory Studies. <i>Environmental Science & Technology</i> , 2016 , 50, 12903-12911	10.3	10
249	Spatial and Temporal Variation in <i>Aedes aegypti</i> and <i>Aedes albopictus</i> (Diptera: Culicidae) Numbers in the Yogyakarta Area of Java, Indonesia, With Implications for Wolbachia Releases. <i>Journal of Medical Entomology</i> , 2016 , 53, 188-98	2.2	10
248	Foundations for the future: A long-term plan for Australian ecosystem science. <i>Austral Ecology</i> , 2014 , 39, 739-748	1.5	10
247	A proline repeat polymorphism of the Frost gene of <i>Drosophila melanogaster</i> showing clinal variation but not associated with cold resistance. <i>Insect Molecular Biology</i> , 2012 , 21, 437-45	3.4	10
246	Is body size variation in the platypus (<i>Ornithorhynchus anatinus</i>) associated with environmental variables?. <i>Australian Journal of Zoology</i> , 2011 , 59, 201	0.5	10
245	Does <i>Bdellodes lapidaria</i> (Acari: Bdellidae) have a role in biological control of the springtail pest, <i>Sminthurus viridis</i> (Collembola: Sminthuridae) in south-eastern Australia?. <i>Biological Control</i> , 2011 , 58, 222-229	3.8	10
244	Physical and Linkage Maps for <i>Drosophila serrata</i> , a Model Species for Studies of Clinal Adaptation and Sexual Selection. <i>G3: Genes, Genomes, Genetics</i> , 2012 , 2, 287-97	3.2	10

243	Selective control of mite and collembolan pests of pastures and grain crops in Australia. <i>Crop Protection</i> , 2010 , 29, 190-196	2.7	10
242	An independent non-linear latitudinal cline for the sn-glycerol-3-phosphate (alpha- Gpdh) polymorphism of <i>Drosophila melanogaster</i> from eastern Australia. <i>Genetical Research</i> , 2006 , 87, 13-21	1.1	10
241	Composite asymmetry as an indicator of quality in the beneficial wasp <i>Trichogramma nr. brassicae</i> (Hymenoptera: Trichogrammatidae). <i>Journal of Economic Entomology</i> , 2001 , 94, 826-30	2.2	10
240	Contrasting Patterns of Virus Protection and Functional Incompatibility Genes in Two Conspecific Strains from. <i>Applied and Environmental Microbiology</i> , 2019 , 85,	4.8	10
239	Induced expression of small heat shock proteins is associated with thermotolerance in female <i>Laodelphax striatellus</i> planthoppers. <i>Cell Stress and Chaperones</i> , 2019 , 24, 115-123	4	10
238	Impacts of Low Temperatures on <i>Wolbachia</i> (Rickettsiales: Rickettsiaceae)-Infected <i>Aedes aegypti</i> (Diptera: Culicidae). <i>Journal of Medical Entomology</i> , 2020 , 57, 1567-1574	2.2	10
237	Persistent deleterious effects of a deleterious <i>Wolbachia</i> infection. <i>PLoS Neglected Tropical Diseases</i> , 2020 , 14, e0008204	4.8	10
236	Interactions Between Facultative Symbionts <i>Hamiltonella</i> and <i>Cardinium</i> in <i>Bemisia tabaci</i> (Hemiptera: Aleyrodoidea): Cooperation or Conflict?. <i>Journal of Economic Entomology</i> , 2018 , 111, 2660-2666	2.2	10
235	Detecting invertebrate species in archived collections using next-generation sequencing. <i>Molecular Ecology Resources</i> , 2017 , 17, 915-930	8.4	9
234	Genomic changes associated with adaptation to arid environments in cactophilic <i>Drosophila</i> species. <i>BMC Genomics</i> , 2019 , 20, 52	4.5	9
233	Are adult life history traits in oriental fruit moth affected by a mild pupal heat stress?. <i>Journal of Insect Physiology</i> , 2017 , 102, 36-41	2.4	9
232	Toxicant mixtures in sediment alter gene expression in the cysteine metabolism of <i>Chironomus tepperi</i> . <i>Environmental Toxicology and Chemistry</i> , 2017 , 36, 691-698	3.8	9
231	Patterns of genetic variation among geographic and host-plant associated populations of the peach fruit moth <i>Carposina sasakii</i> (Lepidoptera: Carposinidae). <i>BMC Evolutionary Biology</i> , 2017 , 17, 265 ³		9
230	Genetic structure and diversity of introduced eastern mosquitofish (<i>Gambusia holbrooki</i>) in south-eastern Australia. <i>Marine and Freshwater Research</i> , 2012 , 63, 1206	2.2	9
229	Inconsistent responses of alpine arthropod communities to experimental warming and thermal gradients. <i>Climate Research</i> , 2013 , 55, 227-237	1.6	9
228	The capacity of <i>Drosophila</i> to heat harden associates with low rates of heat-shocked protein synthesis. <i>Journal of Thermal Biology</i> , 2009 , 34, 327-331	2.9	9
227	Nucleotide diversity in the Hsp90 gene in natural populations of <i>Drosophila melanogaster</i> from Australia. <i>Insect Molecular Biology</i> , 2008 , 17, 685-97	3.4	9
226	High molecular weight petroleum hydrocarbons differentially affect freshwater benthic macroinvertebrate assemblages. <i>Environmental Toxicology and Chemistry</i> , 2008 , 27, 1077-83	3.8	9

225	Revisiting Heritable Variation and Limits to Species Distribution: Recent Developments. <i>Israel Journal of Ecology and Evolution</i> , 2006 , 52, 247-261	0.8	9
224	GEOGRAPHIC VARIATION FOR WING SHAPE IN DROSOPHILA SERRATA. <i>Evolution; International Journal of Organic Evolution</i> , 2002 , 56, 1068	3.8	9
223	Laboratory Adaptation and Inbreeding in <i>Helicoverpa-Punctigera</i> (Lepidoptera, Noctuidae). <i>Australian Journal of Zoology</i> , 1995 , 43, 83	0.5	9
222	Heritable variation in the attraction of <i>Drosophila melanogaster</i> to fruit in the field. <i>Biological Journal of the Linnean Society</i> , 1992 , 47, 147-159	1.9	9
221	A comparison of inbreeding depression in tropical and widespread <i>Drosophila</i> species. <i>PLoS ONE</i> , 2013 , 8, e51176	3.7	9
220	Genome Stability and mtDNA Variants in Field Populations Eight Years after Release. <i>iScience</i> , 2020 , 23, 101572	6.1	9
219	How is epigenetics predicted to contribute to climate change adaptation? What evidence do we need?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021 , 376, 20200119	5.8	9
218	Detoxification Genes Differ Between Cactus-, Fruit-, and Flower-Feeding <i>Drosophila</i> . <i>Journal of Heredity</i> , 2019 , 110, 80-91	2.4	9
217	Origin of resistance to pyrethroids in the redlegged earth mite (<i>Halotydeus destructor</i>) in Australia: repeated local evolution and migration. <i>Pest Management Science</i> , 2020 , 76, 509-519	4.6	9
216	<i>Wolbachia</i> dominate <i>Spiroplasma</i> in the co-infected spider mite <i>Tetranychus truncatus</i> . <i>Insect Molecular Biology</i> , 2020 , 29, 19-37	3.4	9
215	How useful are thermal vulnerability indices?. <i>Trends in Ecology and Evolution</i> , 2021 , 36, 1000-1010	10.9	9
214	Vitellogenin from planthopper oral secretion acts as a novel effector to impair plant defenses. <i>New Phytologist</i> , 2021 , 232, 802-817	9.8	9
213	Taking advantage of adaptations when managing threatened species within variable environments: the case of the dwarf galaxias, <i>Galaxiella pusilla</i> (Teleostei, Galaxiidae). <i>Marine and Freshwater Research</i> , 2017 , 68, 175	2.2	8
212	Wide diurnal temperature variation inhibits larval development and adult reproduction in the diamondback moth. <i>Journal of Thermal Biology</i> , 2019 , 84, 8-15	2.9	8
211	Life History Effects Linked to an Advantage for Au in. <i>Insects</i> , 2019 , 10,	2.8	8
210	Incursion pathways of the Asian tiger mosquito (<i>Aedes albopictus</i>) into Australia contrast sharply with those of the yellow fever mosquito (<i>Aedes aegypti</i>). <i>Pest Management Science</i> , 2020 , 76, 4202-4209	4.6	8
209	Influence of previous host plants on the reproductive success of a polyphagous mite pest, <i>Halotydeus destructor</i> (Trombidiformes: Penthaleidae). <i>Journal of Economic Entomology</i> , 2018 , 111, 680-688	2.3	8
208	Extensive variation, but not local adaptation in an Australian alpine daisy. <i>Ecology and Evolution</i> , 2016 , 6, 5459-72	2.8	8

207	Is temperature preference in the laboratory ecologically relevant for the field? The case of <i>Drosophila nigrosarsa</i> . <i>Global Ecology and Conservation</i> , 2019 , 18, e00638	2.8	8
206	Linking thermal adaptation and life-history theory explains latitudinal patterns of voltinism. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019 , 374, 20180547	5.8	8
205	Potential new sources of wheat curl mite resistance in wheat to prevent the spread of yield-reducing pathogens. <i>Experimental and Applied Acarology</i> , 2014 , 64, 1-19	2.1	8
204	A replicated comparison of breeding-container suitability for the dengue vector <i>Aedes aegypti</i> in tropical and temperate Australia. <i>Austral Ecology</i> , 2013 , 38, 219-229	1.5	8
203	A Framework for Identifying Selective Chemical Applications for IPM in Dryland Agriculture. <i>Insects</i> , 2015 , 6, 988-1012	2.8	8
202	The tolerance of the lucerne flea, <i>Sminthurus viridis</i> (Collembola: Sminthuridae), to currently registered pesticides in Australia. <i>Australian Journal of Entomology</i> , 2009 , 48, 241-246		8
201	Clinal variation in post-winter male fertility retention; an adaptive overwintering strategy in <i>Drosophila melanogaster</i> . <i>Journal of Evolutionary Biology</i> , 2009 , 22, 2438-44	2.3	8
200	Population dynamics and diapause response of the springtail pest <i>Sminthurus viridis</i> (Collembola: Sminthuridae) in southeastern Australia. <i>Journal of Economic Entomology</i> , 2011 , 104, 465-73	2.2	8
199	Male Effects on Fecundity in <i>Drosophila melanogaster</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1985 , 39, 638	3.8	8
198	Into the wild-a field study on the evolutionary and ecological importance of thermal plasticity in ectotherms across temperate and tropical regions.. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022 , 377, 20210004	5.8	8
197	Commercial agrochemical applications in vineyards do not influence ant communities. <i>Environmental Entomology</i> , 2007 , 36, 1374-83	2.1	8
196	Phenotypic Plasticity for Desiccation Resistance, Climate Change, and Future Species Distributions: Will Plasticity Have Much Impact?. <i>American Naturalist</i> , 2020 , 196, 306-315	3.7	8
195	Population genomics of two invasive mosquitoes (<i>Aedes aegypti</i> and <i>Aedes albopictus</i>) from the Indo-Pacific. <i>PLoS Neglected Tropical Diseases</i> , 2020 , 14, e0008463	4.8	8
194	Extreme climate shifts pest dominance hierarchy through thermal evolution and transgenerational plasticity. <i>Functional Ecology</i> , 2021 , 35, 1524-1537	5.6	8
193	Preference and performance of the two-spotted spider mite <i>Tetranychus urticae</i> (Acari: Tetranychidae) on strawberry cultivars. <i>Experimental and Applied Acarology</i> , 2018 , 76, 185-196	2.1	8
192	Crop Seedling Susceptibility to <i>Armadillidium vulgare</i> (Isopoda: Armadillidiidae) and <i>Ommatoiulus moreletii</i> (Diplopoda: Iulidae). <i>Journal of Economic Entomology</i> , 2017 , 110, 2679-2685	2.2	7
191	Geographical and interspecific variation in susceptibility of three common thrips species to the insecticide, spinetoram. <i>Journal of Pest Science</i> , 2019 , 94, 93	5.5	7
190	The Parthenogenetic Cosmopolitan Chironomid, <i>Paratanytarsus grimmii</i> , as a New Standard Test Species for Ecotoxicology: Culturing Methodology and Sensitivity to Aqueous Pollutants. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2015 , 95, 350-6	2.7	7

189	Variable resistance to spinetoram in populations of across a small area unconnected to genetic similarity. <i>Evolutionary Applications</i> , 2020 , 13, 2234-2245	4.8	7
188	Rapid and strong population genetic differentiation and genomic signatures of climatic adaptation in an invasive mealybug. <i>Diversity and Distributions</i> , 2020 , 26, 610-622	5	7
187	Potential for biological control of the vegetable leafminer, <i>Liriomyza sativae</i> (Diptera: Agromyzidae), in Australia with parasitoid wasps. <i>Austral Entomology</i> , 2020 , 59, 16-36	1.1	7
186	Behavioral thermoregulation in a small herbivore avoids direct UVB damage. <i>Journal of Insect Physiology</i> , 2018 , 107, 276-283	2.4	7
185	Influence of Wolbachia infection on mitochondrial DNA variation in the genus <i>Polytremis</i> (Lepidoptera: HesperIIDae). <i>Molecular Phylogenetics and Evolution</i> , 2018 , 129, 158-170	4.1	7
184	Climate change expected to drive habitat loss for two key herbivore species in an alpine environment. <i>Journal of Biogeography</i> , 2015 , 42, 1210-1221	4.1	7
183	Genetic mapping of adaptive wing size variation in <i>Drosophila simulans</i> . <i>Heredity</i> , 2011 , 107, 22-9	3.6	7
182	Variation in morphological characters of two invasive leafminers, <i>Liriomyza huidobrensis</i> and <i>L. sativae</i> , across a tropical elevation gradient. <i>Journal of Insect Science</i> , 2011 , 11, 69	2	7
181	Morphological variation and floral abnormalities in a trigger plant across a narrow altitudinal gradient. <i>Austral Ecology</i> , 2009 , 34, 780-792	1.5	7
180	Survival and reproduction of the pest mites <i>Balaustium medicagoense</i> and <i>Bryobia</i> spp. on winter grain crops. <i>Experimental and Applied Acarology</i> , 2010 , 52, 141-53	2.1	7
179	<i>Notonomus gravis</i> (Chaudoir) (Coleoptera: Carabidae) predation of <i>Deroceras reticulatum</i> Müller (Gastropoda: Agriolimacidae), an example of fortuitous biological control. <i>Biological Control</i> , 2008 , 47, 328-334	3.8	7
178	Developmental Stability as a Potential Tool in the Early Detection of Salinity Stress in Wheat. <i>International Journal of Plant Sciences</i> , 2003 , 164, 325-331	2.6	7
177	Isolation of a <i>Drosophila melanogaster</i> desiccation resistant mutant. <i>Journal of Insect Physiology</i> , 2003 , 49, 1013-20	2.4	7
176	RAPID LOSS OF STRESS RESISTANCE IN <i>DROSOPHILA MELANOGASTER</i> UNDER ADAPTATION TO LABORATORY CULTURE. <i>Evolution; International Journal of Organic Evolution</i> , 2001 , 55, 436	3.8	7
175	A Test of the Role of Epistasis in Divergence Under Uniform Selection. <i>Evolution; International Journal of Organic Evolution</i> , 1989 , 43, 766	3.8	7
174	Climate, human influence and the distribution limits of the invasive European earwig, <i>Forficula auricularia</i> , in Australia. <i>Pest Management Science</i> , 2019 , 75, 134-143	4.6	7
173	Effects of Alternative Blood Sources on Infected Females within and across Generations. <i>Insects</i> , 2018 , 9,	2.8	7
172	Different genetic structures revealed resident populations of a specialist parasitoid wasp in contrast to its migratory host. <i>Ecology and Evolution</i> , 2017 , 7, 5400-5409	2.8	6

171	A Re-Evaluation of Chironomid Deformities as an Environmental Stress Response: Avoiding Survivorship Bias and Testing Noncontaminant Biological Factors. <i>Environmental Toxicology and Chemistry</i> , 2019 , 38, 1658-1667	3.8	6
170	Summer egg diapause in a matchstick grasshopper synchronizes the life cycle and buffers thermal extremes. <i>Integrative Zoology</i> , 2018 , 13, 437-449	1.9	6
169	Life-history traits and physiological limits of the alpine fly (Diptera: Drosophilidae): A comparative study. <i>Ecology and Evolution</i> , 2018 , 8, 2006-2020	2.8	6
168	Small females prefer small males: size assortative mating in <i>Aedes aegypti</i> mosquitoes. <i>Parasites and Vectors</i> , 2018 , 11, 445	4	6
167	The roles of age, parentage and environment on bacterial and algal endosymbiont communities in <i>Acropora</i> corals. <i>Molecular Ecology</i> , 2019 , 28, 3830-3843	5.7	6
166	Challenges in devising economic spray thresholds for a major pest of Australian canola, the redlegged earth mite (<i>Halotydeus destructor</i>). <i>Pest Management Science</i> , 2015 , 71, 1462-70	4.6	6
165	MRI blood-brain barrier permeability measurements to predict hemorrhagic transformation in a rat model of ischemic stroke. <i>Translational Stroke Research</i> , 2012 , 3, 508-16	7.8	6
164	Genetic Structure of <i>Carex</i> Species from the Australian Alpine Region along Elevation Gradients: Patterns of Reproduction and Gene Flow. <i>International Journal of Plant Sciences</i> , 2013 , 174, 189-199	2.6	6
163	Soft scale insects (Hemiptera: Coccoidea: Coccidae) on grapevines in Australia. <i>Australian Journal of Entomology</i> , 2013 , 52, 371-378		6
162	The distribution, abundance and life cycle of the pest mites <i>Balaustium medicagoense</i> (Prostigmata: Erythraeidae) and <i>Bryobia</i> spp. (Prostigmata: Tetranychidae) in Australia. <i>Australian Journal of Entomology</i> , 2011 , 50, 22-36		6
161	Combining rapid bioassessment and field-based microcosms for identifying impacts in an urban river. <i>Environmental Toxicology and Chemistry</i> , 2010 , 29, 1773-80	3.8	6
160	Individual level trade-offs and artifacts in the egg parasitoid <i>Trichogramma carverae</i> (Hymenoptera: Trichogrammatidae). <i>Annals of the Entomological Society of America</i> , 2002 , 95, 695-700	2	6
159	Olfactory responses of <i>Drosophila melanogaster</i> selected for knockdown resistance to ethanol. <i>Behavior Genetics</i> , 1987 , 17, 307-12	3.2	6
158	A phylogeny for the <i>Drosophila montium</i> species group: A model clade for comparative analyses. <i>Molecular Phylogenetics and Evolution</i> , 2021 , 158, 107061	4.1	6
157	A LAMP assay for the rapid and robust assessment of <i>Wolbachia</i> infection in <i>Aedes aegypti</i> under field and laboratory conditions. <i>PLoS ONE</i> , 2019 , 14, e0225321	3.7	6
156	Spatial patterns of genetic diversity among Australian alpine flora communities revealed by comparative phylogenomics. <i>Journal of Biogeography</i> , 2018 , 45, 177-189	4.1	6
155	A AlbB Transinfection Displays Stable Phenotypic Effects across Divergent <i>Aedes aegypti</i> Mosquito Backgrounds. <i>Applied and Environmental Microbiology</i> , 2021 , 87, e0126421	4.8	6
154	The contrasting genetic architecture of wing size, viability, and development time in a rainforest species and its more widely distributed relative. <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 106-14	3.8	6

153	Soil moisture conditions determine phenology and success of larval escape in the peach fruit moth, <i>Carposina sasakii</i> (Lepidoptera, Carposinidae): Implications for predicting drought effects on a diapausing insect. <i>Applied Soil Ecology</i> , 2017 , 110, 65-72	5	5
152	Mitochondrial variation in small brown planthoppers linked to multiple traits and probably reflecting a complex evolutionary trajectory. <i>Molecular Ecology</i> , 2019 , 28, 3306-3323	5.7	5
151	Molecular Phylogeny and Historical Biogeography of the Butterfly Tribe Aeromachini Tutt (Lepidoptera: HesperIIDae) from China. <i>Cells</i> , 2019 , 8,	7.9	5
150	Coccinellid abundance in shelterbelts is affected more by adjacent crop type and aphid abundance than vegetation characteristics. <i>Biological Control</i> , 2015 , 87, 47-55	3.8	5
149	Developing Exon-Primed Intron-Crossing (EPIC) markers for population genetic studies in three <i>Aedes</i> disease vectors. <i>Insect Science</i> , 2015 , 22, 409-23	3.6	5
148	Background-dependent Wolbachia-mediated insecticide resistance in <i>Laodelphax striatellus</i> . <i>Environmental Microbiology</i> , 2020 , 22, 2653-2663	5.2	5
147	Mitochondrial DNA suggests a single maternal origin for the widespread triploid parthenogenetic pest species, <i>Paratanytarsus grimmii</i> , but microsatellite variation shows local endemism. <i>Insect Science</i> , 2013 , 20, 345-57	3.6	5
146	Separating multiple sources of variation on heat resistance in <i>Drosophila hydei</i> . <i>Journal of Insect Physiology</i> , 2017 , 96, 122-127	2.4	5
145	Correlations between measures of heat resistance and acclimation in two species of <i>Drosophila</i> and their hybrids. <i>Biological Journal of the Linnean Society</i> , 1998 , 64, 449-462	1.9	5
144	RESPONSE TO NATURAL AND LABORATORY SELECTION AT THE <i>DROSOPHILA</i> HSP70 GENES. <i>Evolution; International Journal of Organic Evolution</i> , 2002 , 56, 1796	3.8	5
143	Inter- and intraspecific variation in the response of <i>Drosophila melanogaster</i> and <i>D. simulans</i> to larval cues. <i>Behavior Genetics</i> , 1986 , 16, 295-306	3.2	5
142	Changes in grape phylloxera abundance in ungrafted vineyards. <i>Journal of Economic Entomology</i> , 2006 , 99, 1774-83	2.2	5
141	Measuring the Host-Seeking Ability of Destined for Field Release. <i>American Journal of Tropical Medicine and Hygiene</i> , 2020 , 102, 223-231	3.2	5
140	Stable Establishment of spp. in the Brown Planthopper <i>Nilaparvata lugens</i> despite Decreased Host Fitness. <i>Applied and Environmental Microbiology</i> , 2020 , 86,	4.8	5
139	Population genomic data in spider mites point to a role for local adaptation in shaping range shifts. <i>Evolutionary Applications</i> , 2020 , 13, 2821-2835	4.8	5
138	An endangered flightless grasshopper with strong genetic structure maintains population genetic variation despite extensive habitat loss. <i>Ecology and Evolution</i> , 2021 , 11, 5364-5380	2.8	5
137	Bees of the Victorian Alps: Network structure and interactions of introduced species. <i>Austral Ecology</i> , 2019 , 44, 245-254	1.5	5
136	Spatial population genomics of a recent mosquito invasion. <i>Molecular Ecology</i> , 2021 , 30, 1174-1189	5.7	5

135	Reply to: Issues with combining incompatible and sterile insect techniques. <i>Nature</i> , 2021 , 590, E3-E5	50.4	5
134	Opportunities and challenges in assessing climate change vulnerability through genomics. <i>Cell</i> , 2021 , 184, 1420-1425	56.2	5
133	Understanding the biology of species' ranges: when and how does evolution change the rules of ecological engagement?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022 , 377, 20210027	5.8	5
132	Estimating Densities of the Pest <i>Halotydeus destructor</i> (Acari: Pentheleidae) in Canola. <i>Journal of Economic Entomology</i> , 2014 , 107, 2204-12	2.2	4
131	III.8. Evolutionary Limits and Constraints 2013 , 247-252		4
130	Impact of <i>Halotydeus destructor</i> on crop seedlings at different plant developmental stages and levels of moisture stress. <i>Environmental Entomology</i> , 2013 , 42, 998-1012	2.1	4
129	High diversity of ants in Australian vineyards. <i>Australian Journal of Entomology</i> , 2011 , 50, 7-21		4
128	Robust clines and robust sampling: a reply to Kyriacou et al. <i>Journal of Evolutionary Biology</i> , 2007 , 20, 1652-4	2.3	4
127	Distribution and spacing of <i>Drosophila mycetophaga</i> flies on bracket fungi used as mating arenas. <i>Ecological Entomology</i> , 1995 , 20, 203-207	2.1	4
126	Heritable Variation in Resource Utilization and Response in a Winery Population of <i>Drosophila melanogaster</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1991 , 45, 1000	3.8	4
125	The dangers of irreversibility in an age of increased uncertainty: revisiting plasticity in invertebrates. <i>Oikos</i> ,	4	4
124	Fine-scale landscape genomics helps explain the slow spread of <i>Wolbachia</i> through the <i>Aedes aegypti</i> population in Cairns, Australia		4
123	Unbiased population heterozygosity estimates from genome-wide sequence data. <i>Methods in Ecology and Evolution</i> , 2021 , 12, 1888	7.7	4
122	Development of novel microsatellites for population genetic analysis of <i>Phenacoccus solenopsis</i> Tinsley (Hemiptera: Pseudococcidae) based on genomic analysis. <i>International Journal of Biological Macromolecules</i> , 2019 , 121, 1135-1144	7.9	4
121	Hymenopteran Parasitoids of Aphid Pests within Australian Grain Production Landscapes. <i>Insects</i> , 2021 , 12,	2.8	4
120	Enhancing Common Associations With a Regulatory Haplotype for Thoracic Pigmentation in a Japanese Population and Australian Populations. <i>Frontiers in Physiology</i> , 2018 , 9, 822	4.6	4
119	Heritable Variation in Resource Use in <i>Drosophila</i> in the Field 1990 , 177-193		4
118	Functional Analysis of a Putative Target of Spatially Varying Selection in the Gene of. <i>G3: Genes, Genomes, Genetics</i> , 2019 , 9, 73-80	3.2	3

117	Increased density of endosymbiotic Buchnera related to pesticide resistance in yellow morph of melon aphid. <i>Journal of Pest Science</i> , 2020 , 93, 1281-1294	5.5	3
116	A short work-flow to effectively source faecal pollution in recreational waters - A case study. <i>Science of the Total Environment</i> , 2018 , 644, 1503-1510	10.2	3
115	Factors Influencing Damage by the Portuguese Millipede, <i>Ommatoiulus moreleti</i> (Julida: Julidae), to Crop Seedlings. <i>Journal of Economic Entomology</i> , 2019 , 112, 2695-2702	2.2	3
114	Natural enemies of soft scale insects (Hemiptera: Coccoidea: Coccidae) in Australian vineyards. <i>Australian Journal of Grape and Wine Research</i> , 2015 , 21, 302-310	2.4	3
113	Local-scale spatial dynamics of ants in a temperate agroecosystem. <i>Austral Ecology</i> , 2011 , 36, 413-424	1.5	3
112	The genetic architecture of wing size divergence at varying spatial scales along a body size cline in <i>Drosophila melanogaster</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2010 , 64, 1935-43	3.8	3
111	Absence of clinal variation in virgin retention capacity in Australian <i>Drosophila melanogaster</i> . <i>Evolutionary Ecology</i> , 2006 , 20, 407-413	1.8	3
110	Biology, ecology and control of the <i>Penthaleus</i> species complex (Acari: Penthaleidae). <i>Experimental and Applied Acarology</i> , 2004 , 34, 211-237	2.1	3
109	A Comment on In-Group/Out-Group Comparisons for Fluctuating Asymmetry Based on Trait Values from the Left or Right Sides of an Individual. <i>American Naturalist</i> , 1999 , 153, 140-142	3.7	3
108	Habitat marking: Parallel genetic divergence in two <i>Drosophila</i> species. <i>Heredity</i> , 1985 , 54, 203-207	3.6	3
107	Phylogenomic analyses of the genus <i>Drosophila</i> reveals genomic signals of climate adaptation. <i>Molecular Ecology Resources</i> , 2021 ,	8.4	3
106	The detection and significance of emerging insecticide resistance in mosquitoes. <i>Microbiology Australia</i> , 2018 , 39, 80	0.8	3
105	<i>Wolbachia</i> infections in <i>Aedes aegypti</i> differ markedly in their response to cyclical heat stress		3
104	Similar Gut Bacterial Microbiota in Two Fruit-Feeding Moth Pests Collected from Different Host Species and Locations. <i>Insects</i> , 2020 , 11,	2.8	3
103	Learnings from over a decade of increasing pesticide resistance in the redlegged earth mite, <i>Halotydeus destructor</i> (Tucker). <i>Pest Management Science</i> , 2021 , 77, 3013-3024	4.6	3
102	Comparative mitogenomics and phylogenetics of the stinging wasps (Hymenoptera: Aculeata). <i>Molecular Phylogenetics and Evolution</i> , 2021 , 159, 107119	4.1	3
101	Spider Mites Singly Infected With Either or Have Reduced Thermal Tolerance. <i>Frontiers in Microbiology</i> , 2021 , 12, 706321	5.7	3
100	Taiwanese <i>Trichogramma</i> of Asian Corn Borer: Morphology, ITS-2 rDNA Characterization, and Natural <i>Wolbachia</i> Infection. <i>Journal of Insect Science</i> , 2016 , 16,	2	3

99	Inbreeding depression as a compromising factor in ecotoxicological assays. <i>Integrated Environmental Assessment and Management</i> , 2016 , 12, 595-7	2.5	3
98	Distribution and influence of grazing on wheat curl mites (<i>Aceria tosichella</i> Keifer) within a wheat field. <i>Journal of Applied Entomology</i> , 2016 , 140, 426-433	1.7	3
97	Migration trajectories of the diamondback moth <i>Plutella xylostella</i> in China inferred from population genomic variation. <i>Pest Management Science</i> , 2021 , 77, 1683-1693	4.6	3
96	Microhabitat separation between the pest aphids <i>Rhopalosiphum padi</i> and <i>Sitobion avenae</i> : food resource or microclimate selection?. <i>Journal of Pest Science</i> , 2021 , 94, 795-804	5.5	3
95	Empowering Australian insecticide resistance research with genetic information: the road ahead. <i>Austral Entomology</i> , 2021 , 60, 147-162	1.1	3
94	Anthropogenic and natural barriers affect genetic connectivity in an Alpine butterfly. <i>Molecular Ecology</i> , 2021 , 30, 114-130	5.7	3
93	Changes in lipid classes of <i>Drosophila melanogaster</i> in response to selection for three stress traits. <i>Journal of Insect Physiology</i> , 2019 , 117, 103890	2.4	2
92	Morphological and Molecular Analysis of Australian Earwigs (Dermaptera) Points to Unique Species and Regional Endemism in the Anisolabididae Family. <i>Insects</i> , 2019 , 10,	2.8	2
91	Identifying critical research gaps that limit control options for invertebrate pests in Australian grain production systems. <i>Austral Entomology</i> , 2019 , 58, 9-26	1.1	2
90	Patterns of environmental variance across environments and traits in domestic cattle. <i>Evolutionary Applications</i> , 2020 , 13, 1090-1102	4.8	2
89	Metabolomic Profiles of a Midge (<i>Procladius villosimanus</i> , Kieffer) Are Associated with Sediment Contamination in Urban Wetlands. <i>Metabolites</i> , 2017 , 7,	5.6	2
88	Efficacy of carbon dioxide treatments for the control of the two-spotted spider mite, <i>Tetranychus urticae</i> , and treatment impact on plant seedlings. <i>Experimental and Applied Acarology</i> , 2018 , 75, 143-153 ^{2.1}	2.1	2
87	The effects of individual nonheritable variation on fitness estimation and coexistence. <i>Ecology and Evolution</i> , 2019 , 9, 8995-9004	2.8	2
86	Measuring the plasticity of developmental rate across insect populations: comment on Rocha and Klaczko (2012). <i>Evolution; International Journal of Organic Evolution</i> , 2014 , 68, 1544-7	3.8	2
85	<i>Drosophila</i> and Selection in Nature: From Laboratory Fitness Components to Field Assessments 2009 , 169-182		2
84	Mutation and Phenotypic Variation: Where is the Connection? Capacitators, Stressors, Phenotypic Variability, and Evolutionary Change 2005 , 159-189		2
83	Sensitivity of pupae of lightbrown apple moth, <i>Epiphyas postvittana</i> (Walker) (Lepidoptera: Tortricidae), to combinations of abiotic stresses. <i>Australian Journal of Entomology</i> , 2000 , 39, 78-82		2
82	Making monitoring work: insights and lessons from Australia's Long Term Ecological Research Network. <i>Australian Zoologist</i> , 2018 , 39, 755-768	0.7	2

81	Limonene Emissions: Do Different Types Have Different Biological Effects?. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	2
80	Fitness effects of competition within and between species change across species ranges, and reveal limited local adaptation in rainforest <i>Drosophila</i>		2
79	RNA virome diversity and infection in individual flies. <i>Journal of General Virology</i> , 2021 , 102,	4.9	2
78	The queenslandensis and the type form of the dengue fever mosquito (<i>Aedes aegypti</i> L.) are genomically indistinguishable		2
77	Population genomics of two invasive mosquitoes (<i>Aedes aegypti</i> and <i>Aedes albopictus</i>) from the Indo-Pacific		2
76	A comprehensive assessment of inbreeding and laboratory adaptation in <i>Aedes aegypti</i> mosquitoes		2
75	A genomic approach to inferring kinship reveals limited intergenerational dispersal in the yellow fever mosquito		2
74	Extensive genetic differentiation between homomorphic sex chromosomes in the mosquito vector, <i>Aedes aegypti</i>		2
73	Characterization of Sodium Channel Mutations in the Dengue Vector Mosquitoes and within the Context of Ongoing Releases in Kuala Lumpur, Malaysia. <i>Insects</i> , 2020 , 11,	2.8	2
72	Fitness Costs Associated with Pyrethroid Resistance in <i>Halotydeus destructor</i> (Tucker) (Acari: Pentheleidae) Elucidated Through Semi-field Trials. <i>Journal of Economic Entomology</i> , 2021 , 114, 1270-1281	2.2	2
71	Are extreme high temperatures at low or high latitudes more likely to inhibit the population growth of a globally distributed aphid?. <i>Journal of Thermal Biology</i> , 2021 , 98, 102936	2.9	2
70	Vector control: Discovery of <i>Wolbachia</i> in malaria vectors. <i>Current Biology</i> , 2021 , 31, R738-R740	6.3	2
69	Supporting the adaptive capacity of species through more effective knowledge exchange with conservation practitioners. <i>Evolutionary Applications</i> , 2021 , 14, 1969-1979	4.8	2
68	Digenean trematode cysts within the heads of threatened <i>Galaxiella</i> species (Teleostei : Galaxiidae) from south-eastern Australia. <i>Australian Journal of Zoology</i> , 2016 , 64, 285	0.5	2
67	Maternal effects in gene expression of interspecific coral hybrids. <i>Molecular Ecology</i> , 2021 , 30, 517-527	5.7	2
66	Estimating dispersal using close kin dyads: The kindisperse R package. <i>Molecular Ecology Resources</i> , 2021 ,	8.4	2
65	Lifecycle of the invasive omnivore, <i>Forficula auricularia</i> , in Australian grain growing environments. <i>Pest Management Science</i> , 2021 , 77, 1818-1828	4.6	2
64	Parthenogenesis without costs in a grasshopper with hybrid origins. <i>Science</i> , 2022 , 376, 1110-1114	33.3	2

63	Variability in development of the striped rice borer, <i>Chilo suppressalis</i> (Lepidoptera: Pyralidae), due to instar number and last instar duration. <i>Scientific Reports</i> , 2016 , 6, 35231	4.9	1
62	Genetic correlations and their dependence on environmental similarity-Insights from livestock data. <i>Evolution; International Journal of Organic Evolution</i> , 2019 , 73, 1672-1678	3.8	1
61	GEOGRAPHIC PATTERNS OF CLONAL DIVERSITY IN THE EARTH MITE SPECIES PENTHALEUS MAJOR WITH PARTICULAR EMPHASIS ON SPECIES MARGINS. <i>Evolution; International Journal of Organic Evolution</i> , 2002 , 56, 1160	3.8	1
60	Residual influences on fecundity in drosophilid species. <i>Experientia</i> , 1987 , 43, 213-5		1
59	Biological Invasions, Climate Change, and Genomics 2016 , 37-70		1
58	Incursion pathways of the Asian tiger mosquito (<i>Aedes albopictus</i>) into Australia contrast sharply with those of the yellow fever mosquito (<i>Aedes aegypti</i>)		1
57	Infertility and fecundity loss of Wolbachia-infected <i>Aedes aegypti</i> hatched from quiescent eggs is expected to alter invasion dynamics		1
56	The Effect of Nonrandom Mating on Dynamics: Implications for Population Replacement and Sterile Releases in Mosquitoes. <i>American Journal of Tropical Medicine and Hygiene</i> , 2018 , 99, 608-617	3.2	1
55	Measuring the host-seeking ability of <i>Aedes aegypti</i> destined for field release		1
54	Heterogeneous genetic invasions of three insecticide resistance mutations in Indo-Pacific populations of <i>Aedes aegypti</i> (L.)		1
53	Unbiased population heterozygosity estimates from genome-wide sequence data		1
52	Temperatures that sterilise males better predict global species distributions than lethal temperatures		1
51	Wolbachia. <i>Current Biology</i> , 2020 , 30, R1113-R1114	6.3	1
50	Combined Analyses of Phenotype, Genotype and Climate Implicate Local Adaptation as a Driver of Diversity in <i>Eucalyptus microcarpa</i> (Grey Box). <i>Forests</i> , 2020 , 11, 495	2.8	1
49	Phylogeny and Density Dynamics of Infection of the Health Pest Curtis (Coleoptera: Staphylinidae). <i>Insects</i> , 2020 , 11,	2.8	1
48	Frequency of <i>kdr</i> mutations in the voltage-sensitive sodium channel (<i>V</i>) gene in <i>Aedes aegypti</i> from Yogyakarta and implications for Wolbachia-infected mosquito trials. <i>Parasites and Vectors</i> , 2020 , 13, 429 ⁴		1
47	Is what you see what you get? The relationship between field observed and actual aphid parasitism rates in canola crops		1
46	Strip spraying delays pyrethroid resistance in the redlegged earth mite, <i>Halotydeus destructor</i> : a novel refuge strategy. <i>Pest Management Science</i> , 2021 , 77, 4572-4582	4.6	1

45	Flexible habitat choice by aphids exposed to multiple cues reflecting present and future benefits. <i>Behavioral Ecology</i> , 2021 , 32, 286-296	2.3	1
44	Toxicity of Insecticides and Miticides to Natural Enemies in Australian Grains: A Review. <i>Insects</i> , 2021 , 12,	2.8	1
43	Field associations of first generation densities of the pest mites <i>Halotydeus destructor</i> and <i>Penthaleus major</i> in pasture. <i>Experimental and Applied Acarology</i> , 2018 , 76, 487-506	2.1	1
42	Local climate adaptation and gene flow in the native range of two co-occurring fruit moths with contrasting invasiveness. <i>Molecular Ecology</i> , 2021 , 30, 4204-4219	5.7	1
41	Predicting species and community responses to global change using structured expert judgement: An Australian mountain ecosystems case study. <i>Global Change Biology</i> , 2021 , 27, 4420-4434	11.4	1
40	Reducing mosquito-borne disease transmission to humans: A systematic review of cluster randomised controlled studies that assess interventions other than non-targeted insecticide. <i>PLoS Neglected Tropical Diseases</i> , 2021 , 15, e0009601	4.8	1
39	Population bottlenecks constrain microbiome diversity and host genetic variation impeding fitness		1
38	Comparative genome and transcriptome analyses reveal innate differences in response to host plants by two color forms of the two-spotted spider mite <i>Tetranychus urticae</i> . <i>BMC Genomics</i> , 2021 , 22, 569	4.5	1
37	Establishing a climate-ready revegetation trial in central Victoria: A case study. <i>Ecological Management and Restoration</i> , 2021 , 22, 256	1.4	1
36	Predicted responses to selection across the climatic range of a rainforest <i>Drosophila</i> without local adaptation: environmental variation limits trait divergence along ecological gradients		1
35	Using unsorted sweep-net samples to rapidly assess macroinvertebrate biodiversity. <i>Freshwater Science</i> , 2021 , 40, 551-565	2	1
34	Two Newly Introduced Endosymbionts Induce Cell Host Differences in Competitiveness and Metabolic Responses. <i>Applied and Environmental Microbiology</i> , 2021 , 87, e0147921	4.8	1
33	Improving mosquito control strategies with population genomics. <i>Trends in Parasitology</i> , 2021 , 37, 907-921	9.1	1
32	Population genomic signatures of the oriental fruit moth related to the Pleistocene climates.. <i>Communications Biology</i> , 2022 , 5, 142	6.7	1
31	A decade of stability for wMel Wolbachia in natural <i>Aedes aegypti</i> populations.. <i>PLoS Pathogens</i> , 2022 , 18, e1010256	7.6	1
30	Genetic stability of <i>Aedes aegypti</i> populations following invasion by wMel Wolbachia.. <i>BMC Genomics</i> , 2021 , 22, 894	4.5	1
29	Does increased heat resistance result in higher susceptibility to predation? A test using <i>Drosophila melanogaster</i> selection and hardening. <i>Journal of Evolutionary Biology</i> , 2017 , 30, 1153-1164	2.3	0
28	Climate warming threatens critically endangered wingless stonefly <i>Riekoperla darlingtoni</i> (Illies, 1968) (Plecoptera: Gripopterygidae). <i>Journal of Insect Conservation</i> , 1	2.1	0

27	Effects of chlorantraniliprole and chromafenozide on mortality and feeding cessation of the fall webworm, <i>Hyphantria cunea</i> (Lepidoptera: Arctiidae). <i>Journal of Asia-Pacific Entomology</i> , 2020 , 23, 1067-1072	1.4	○
26	Voltage-sensitive sodium channel (Vssc) mutations associated with pyrethroid insecticide resistance in <i>Aedes aegypti</i> (L.) from two districts of Jeddah, Kingdom of Saudi Arabia: baseline information for a <i>Wolbachia</i> release program. <i>Parasites and Vectors</i> , 2021 , 14, 361	4	○
25	Variation in sex ratio of the leafminer <i>Phytomyza plantaginis</i> Goureau (Diptera: Agromyzidae) from Australia. <i>Austral Entomology</i> , 2021 , 60, 610-620	1.1	○
24	Phylogenetic signals in pest abundance and distribution range of spider mites. <i>BMC Evolutionary Biology</i> , 2019 , 19, 223	3	○
23	Options for managing pesticide resistance in the redlegged earth mite (<i>Halotydeus destructor</i> Tucker): an experimental test involving altered selection pressures and alternative chemicals. <i>Crop and Pasture Science</i> , 2021 , 72, 474	2.2	○
22	Association Between Susceptibility of Thrips <i>palmi</i> to Spinetoram and Frequency of G275E Mutation Provides Basis for Molecular Quantification of Field-Evolved Resistance. <i>Journal of Economic Entomology</i> , 2021 , 114, 339-347	2.2	○
21	Low levels of genetic differentiation with isolation by geography and environment in populations of <i>Drosophila melanogaster</i> from across China. <i>Heredity</i> , 2021 , 126, 942-954	3.6	○
20	Molecular Identification of Leafmining Flies From Australia Including New <i>Liriomyza</i> Outbreaks. <i>Journal of Economic Entomology</i> , 2021 , 114, 1983-1990	2.2	○
19	The mitogenome of (Tucker) and its relationships with other trombidiform mites as inferred from nucleotide sequences and gene arrangements. <i>Ecology and Evolution</i> , 2021 , 11, 14162-14174	2.8	○
18	Large- and small-scale geographic structures affecting genetic patterns across populations of an Alpine butterfly. <i>Ecology and Evolution</i> , 2021 , 11, 14697-14714	2.8	○
17	Study of aphid parasitoids (Hymenoptera: Braconidae) in Australian grain production landscapes. <i>Austral Entomology</i> , 2021 , 60, 722	1.1	○
16	A diagnostic primer pair to distinguish between wMel and wAlbB <i>Wolbachia</i> infections. <i>PLoS ONE</i> , 2021 , 16, e0257781	3.7	○
15	Forecasting impacts of biological control under future climates: mechanistic modelling of an aphid pest and a parasitic wasp. <i>Ecological Modelling</i> , 2021 , 457, 109679	3	○
14	Genomic knockout of hsp23 both decreases and increases fitness under opposing thermal extremes in <i>Drosophila melanogaster</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2021 , 139, 103652	4.5	○
13	Endosymbionts Reduce Microbiome Diversity and Modify Host Metabolism and Fecundity in the Planthopper .. <i>MSystems</i> , 2022 , e0151621	7.6	○
12	Sex-specific distribution and classification of <i>Wolbachia</i> infections and mitochondrial DNA haplogroups in <i>Aedes albopictus</i> from the Indo-Pacific.. <i>PLoS Neglected Tropical Diseases</i> , 2022 , 16, e0101139	4.8	○
11	Population bottlenecks constrain host microbiome diversity and genetic variation impeding fitness. <i>PLoS Genetics</i> , 2022 , 18, e1010206	6	○
10	Genetic structure of <i>Gahnia radula</i> (Cyperaceae), a key sedge for revegetation. <i>Australian Journal of Botany</i> , 2017 , 65, 128	1.2	○

- 9 Quantitative tools and simultaneous actions needed for species conservation under climate change-Reply to Shoo et al. (2013). *Climatic Change*, **2015**, 129, 9-11 4.5
- 8 Testing the environmental warming responses of *Brachyscome* daisy species using a common garden approach. *Austral Ecology*, **2020**, 45, 717 1.5
- 7 THE CONTRASTING GENETIC ARCHITECTURE OF WING SIZE, VIABILITY, AND DEVELOPMENT TIME IN A RAINFOREST SPECIES AND ITS MORE WIDELY DISTRIBUTED RELATIVE. *Evolution; International Journal of Organic Evolution*, **2006**, 60, 106 3.8
- 6 Differential toxicological effects of natural and synthetic sources and enantiomeric forms of limonene on mosquito larvae. *Air Quality, Atmosphere and Health*, 1 5.6
- 5 Life stages of the non-native *Ommatoiulus moreleti* (Lucas, 1860) (Julida, Julidae) in Australian small grain systems. *Agricultural and Forest Entomology*, **2021**, 23, 429 1.9
- 4 Distribution of *Culicoides* biting midges (Diptera: Ceratopogonidae) in southern Australia and insight into the *Culicoides victoriae* morpho-variants. *Austral Entomology*, **2021**, 60, 525-534 1.1
- 3 Environmental Stress and Evolutionary Change **2019**, 197-203
- 2 Population differentiation and intraspecific genetic admixture in two weevils (Coleoptera: Curculionidae) across northern China.. *Ecology and Evolution*, **2022**, 12, e8806 2.8
- 1 Using laboratory-cultured nonbiting midge larvae (*Chironomus tepperi*) to identify early metabolic changes following exposure to zinc **2022**, 291-306