

Allen G Gibbs

List of Publications by Citations

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

70
papers

3,523
citations

31
h-index

59
g-index

76
ext. papers

3,991
ext. citations

3.1
avg. IF

5.46
L-index

#	Paper	IF	Citations
70	Water-Proofing Properties of Cuticular Lipids. <i>American Zoologist</i> , 1998 , 38, 471-482		323
69	Lipid melting and cuticular permeability: new insights into an old problem. <i>Journal of Insect Physiology</i> , 2002 , 48, 391-400	2.4	232
68	Evolution of water conservation mechanisms in <i>Drosophila</i> . <i>Journal of Experimental Biology</i> , 2003 , 206, 1183-92	3	196
67	Gene transcription during exposure to, and recovery from, cold and desiccation stress in <i>Drosophila melanogaster</i> . <i>Insect Molecular Biology</i> , 2007 , 16, 435-43	3.4	163
66	Effects of starvation and desiccation on energy metabolism in desert and mesic <i>Drosophila</i> . <i>Journal of Insect Physiology</i> , 2003 , 49, 261-70	2.4	156
65	Physical properties of insect cuticular hydrocarbons: The effects of chain length, methyl-branching and unsaturation. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1995 , 112, 243-249	2.3	152
64	Evolution of water balance in the genus <i>Drosophila</i> . <i>Journal of Experimental Biology</i> , 2001 , 204, 2331-2338		146
63	Discontinuous gas exchange in insects: a clarification of hypotheses and approaches. <i>Physiological and Biochemical Zoology</i> , 2006 , 79, 333-43	2	138
62	RESOURCE ACQUISITION AND THE EVOLUTION OF STRESS RESISTANCE IN <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1998 , 52, 1342-1352	3.8	136
61	The role of larval fat cells in adult <i>Drosophila melanogaster</i> . <i>Journal of Experimental Biology</i> , 2007 , 210, 956-63	3	123
60	Natural variation in food acquisition mediated via a <i>Drosophila</i> cGMP-dependent protein kinase. <i>Journal of Experimental Biology</i> , 2007 , 210, 3547-58	3	91
59	The role of discontinuous gas exchange in insects: the chthonic hypothesis does not hold water. <i>Journal of Experimental Biology</i> , 2004 , 207, 3477-82	3	81
58	Water balance in desert <i>Drosophila</i> : lessons from non-charismatic microfauna. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2002 , 133, 781-9	2.6	77
57	Cuticular lipids and water balance		76
56	No place to hide: microclimates of Sonoran Desert <i>Drosophila</i> . <i>Journal of Thermal Biology</i> , 2003 , 28, 353-362		70
55	Energetics of metamorphosis in <i>Drosophila melanogaster</i> . <i>Journal of Insect Physiology</i> , 2011 , 57, 1437-45	2.4	65
54	Physical properties of insect cuticular hydrocarbons: Model mixtures and lipid interactions. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1995 , 112, 667-672	2.3	64

53	Resource Acquisition and The Evolution of Stress Resistance in <i>Drosophila melanogaster</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1998 , 52, 1342	3.8	63
52	Genetic and acclimatory variation in biophysical properties of insect cuticle lipids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991 , 88, 7257-60	11.5	63
51	Selection for desiccation resistance in adult <i>Drosophila melanogaster</i> affects larval development and metabolite accumulation. <i>Journal of Experimental Biology</i> , 2006 , 209, 3293-300	3	60
50	Discontinuous gas exchange in insects. <i>Respiratory Physiology and Neurobiology</i> , 2006 , 154, 18-29	2.8	60
49	Chemical and physical analyses of wax ester properties. <i>Journal of Insect Science</i> , 2001 , 1, 4		58
48	Intra-individual variation in cuticular lipids studied using Fourier transform infrared spectroscopy. <i>Journal of Insect Physiology</i> , 1991 , 37, 743-748	2.4	48
47	Altered regulation of sleep and feeding contributes to starvation resistance in <i>Drosophila melanogaster</i> . <i>Journal of Experimental Biology</i> , 2014 , 217, 3122-32	3	47
46	Contribution of larval nutrition to adult reproduction in <i>Drosophila melanogaster</i> . <i>Journal of Experimental Biology</i> , 2013 , 216, 399-406	3	44
45	Thermodynamics of cuticular transpiration. <i>Journal of Insect Physiology</i> , 2011 , 57, 1066-9	2.4	39
44	Effect of mating stage on water balance, cuticular hydrocarbons and metabolism in the desert harvester ant, <i>Pogonomyrmex barbatus</i> . <i>Journal of Insect Physiology</i> , 2004 , 50, 943-53	2.4	38
43	Effects of temperature on physiology and reproductive success of a montane leaf beetle: implications for persistence of native populations enduring climate change. <i>Physiological and Biochemical Zoology</i> , 2008 , 81, 718-32	2	37
42	Pressure adaptation of teleost gill Na ⁺ /K ⁺ -adenosine triphosphatase: role of the lipid and protein moieties. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1990 , 160, 431-439	2.2	37
41	The Role of Lipid Physical Properties in Lipid Barriers. <i>American Zoologist</i> , 1998 , 38, 268-279		32
40	Thermal Acclimation and Genetic Variation in Cuticular Lipids of the Lesser Migratory Grasshopper (<i>Melanoplus sanguinipes</i>): Effects of Lipid Composition on Biophysical Properties. <i>Physiological Zoology</i> , 1994 , 67, 1523-1543		32
39	Effects of age on water balance in <i>Drosophila</i> species. <i>Physiological and Biochemical Zoology</i> , 2001 , 74, 520-30	2	31
38	Functional genomic and phenotypic responses to desiccation in natural populations of a desert drosophilid. <i>Molecular Ecology</i> , 2013 , 22, 2698-715	5.7	30
37	Thermal acclimation of metabolism in salamanders: Fact or artefact?. <i>Journal of Thermal Biology</i> , 1984 , 9, 255-260	2.9	30
36	Enhanced Sleep Is an Evolutionarily Adaptive Response to Starvation Stress in <i>Drosophila</i> . <i>PLoS ONE</i> , 2015 , 10, e0131275	3.7	30

35	Sex- and age-related changes in the biophysical properties of cuticular lipids of the housefly, <i>Musca domestica</i> . <i>Archives of Insect Biochemistry and Physiology</i> , 1995 , 29, 87-97	2.3	29
34	Genome-Wide Analysis of Starvation-Selected <i>Drosophila melanogaster</i> -A Genetic Model of Obesity. <i>Molecular Biology and Evolution</i> , 2018 , 35, 50-65	8.3	27
33	Relationship Between Tissue-specific Hydrocarbon Profiles and Lipid Melting Temperatures in the Cockroach <i>Blattella germanica</i> . <i>Journal of Chemical Ecology</i> , 2000 , 26, 1245-1263	2.7	25
32	Spatiotemporal dynamics and genome-wide association genome-wide association analysis of desiccation tolerance in <i>Drosophila melanogaster</i> . <i>Molecular Ecology</i> , 2018 , 27, 3525-3540	5.7	23
31	Toll mediated infection response is altered by gravity and spaceflight in <i>Drosophila</i> . <i>PLoS ONE</i> , 2014 , 9, e86485	3.7	23
30	Synchrotron x-ray visualisation of ice formation in insects during lethal and non-lethal freezing. <i>PLoS ONE</i> , 2009 , 4, e8259	3.7	23
29	Conglobation in the pill bug, <i>Armadillidium vulgare</i> , as a water conservation mechanism. <i>Journal of Insect Science</i> , 2008 , 8, 1-9	2	23
28	The effect of selection for desiccation resistance on cold tolerance of <i>Drosophila melanogaster</i> . <i>Physiological Entomology</i> , 2007 , 32, 322-327	1.9	22
27	Meta-analysis of geographical clines in desiccation tolerance of Indian drosophilids. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2013 , 164, 391-8	2.6	21
26	Interactions between environmental stress and male mating success may enhance evolutionary divergence of stress-resistant <i>Drosophila</i> populations. <i>Evolution; International Journal of Organic Evolution</i> , 2009 , 63, 1653-9	3.8	18
25	Evolution of ammonia and urea tolerance in <i>Drosophila melanogaster</i> : resistance and cross-tolerance. <i>Journal of Insect Physiology</i> , 2000 , 46, 763-769	2.4	18
24	Deciphering life history transcriptomes in different environments. <i>Molecular Ecology</i> , 2015 , 24, 151-79	5.7	17
23	Obesity-associated cardiac dysfunction in starvation-selected <i>Drosophila melanogaster</i> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015 , 309, R658-67	3.2	16
22	6 Biochemistry At Depth. <i>Fish Physiology</i> , 1997 , 16, 239-277	2	16
21	<i>Drosophila</i> as a Model for Starvation: Evolution, Physiology, and Genetics 2012 , 37-51		14
20	The Biology of Lipids: Integrative and Comparative Perspectives. <i>American Zoologist</i> , 1998 , 38, 265-267		14
19	Resistance of the shell membrane and mineral layer to diffusion of oxygen and water in flexible-shelled eggs of the snapping turtle (<i>Chelydra serpentina</i>). <i>Respiration Physiology</i> , 1982 , 49, 179-91		13
18	Waterproof cockroaches: the early work of J. A. Ramsay. <i>Journal of Experimental Biology</i> , 2007 , 210, 921-3		12

17	Cuticular pheromones and water balance in the house fly, <i>Musca domestica</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2003 , 135, 457-65	2.6	12
16	An Experimental Evolution Test of the Relationship between Melanism and Desiccation Survival in Insects. <i>PLoS ONE</i> , 2016 , 11, e0163414	3.7	12
15	The role of 20-hydroxyecdysone signaling in <i>Drosophila</i> pupal metabolism. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2010 , 157, 398-404	2.6	11
14	Selection for abdominal tergite pigmentation and correlated responses in the trident: a case study in <i>Drosophila melanogaster</i> . <i>Biological Journal of the Linnean Society</i> , 2012 , 106, 287-294	1.9	9
13	Hot and not-so-hot females: reproductive state and thermal preferences of female Arizona Bark Scorpions (<i>Centruroides sculpturatus</i>). <i>Journal of Evolutionary Biology</i> , 2015 , 28, 368-75	2.3	9
12	The effect of urea exposure on isoaspartyl content and protein L-isoaspartate methyltransferase activity in <i>Drosophila melanogaster</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1999 , 124, 423-7	2.3	7
11	Effects of temperature on transcriptome and cuticular hydrocarbon expression in ecologically differentiated populations of desert. <i>Ecology and Evolution</i> , 2017 , 7, 619-637	2.8	6
10	The cost of being queen: investment across <i>Pogonomyrmex</i> harvester ant gynes that differ in degree of claustrality. <i>Journal of Insect Physiology</i> , 2014 , 70, 134-42	2.4	6
9	Preadult life history variation determines adult transcriptome expression. <i>Molecular Ecology</i> , 2016 , 25, 741-63	5.7	6
8	Chapter 10 Temperature, pressure and the sodium pump: The role of homeoviscous adaptation. <i>Biochemistry and Molecular Biology of Fishes</i> , 1995 , 5, 197-212		5
7	PHYSIOLOGICAL MECHANISMS OF EVOLVED DESICCATION RESISTANCE IN <i>DROSOPHILA MELANOGASTER</i> 2004 , 89-100		4
6	Partitioning of transpiratory water loss of the desert scorpion, <i>Hadrurus arizonensis</i> (Iuridae). <i>Journal of Insect Physiology</i> , 2009 , 55, 544-8	2.4	3
5	Physiological Adaptation in Laboratory Environments 2009 , 522-550		3
4	Starvation resistance is associated with developmentally specified changes in sleep, feeding and metabolic rate. <i>Journal of Experimental Biology</i> , 2019 , 222,	3	3
3	The Effects of alpha-Tocopherol on Mammalian Torpor 2000 , 207-213		1
2	Post-eclosion temperature effects on insect cuticular hydrocarbon profiles. <i>Ecology and Evolution</i> , 2021 , 11, 352-364	2.8	1
1	Fly Roller: Development of an Instrument to Exercise Fruit Flies. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 445-451	0.4	