

Gregory A Sword

List of Publications by Year in descending order

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116
papers

5,598
citations

87888

38
h-index

88630

70
g-index

119
all docs

119
docs citations

119
times ranked

4945
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyphenism in Insects. <i>Current Biology</i> , 2011, 21, R738-R749.	3.9	320
2	Evaluation of potential reference genes for reverse transcription-qPCR studies of physiological responses in <i>Drosophila melanogaster</i> . <i>Journal of Insect Physiology</i> , 2011, 57, 840-850.	2.0	276
3	Cannibal crickets on a forced march for protein and salt. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 4152-4156.	7.1	273
4	Collective Motion and Cannibalism in Locust Migratory Bands. <i>Current Biology</i> , 2008, 18, 735-739.	3.9	255
5	Colonization of crop plants by fungal entomopathogens and their effects on two insect pests when in planta. <i>Biological Control</i> , 2010, 55, 34-41.	3.0	216
6	The endophytic fungal entomopathogens <i>Beauveria bassiana</i> and <i>Purpureocillium lilacinum</i> enhance the growth of cultivated cotton (<i>Gossypium hirsutum</i>) and negatively affect survival of the cotton bollworm (<i>Helicoverpa zea</i>). <i>Biological Control</i> , 2015, 89, 53-60.	3.0	178
7	The Entomopathogenic Fungal Endophytes <i>Purpureocillium lilacinum</i> (Formerly <i>Paecilomyces</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Greenhouse and Field Conditions. <i>PLoS ONE</i> , 2014, 9, e103891.	2.5	176
8	Mitochondrial genomes reveal the global phylogeography and dispersal routes of the migratory locust. <i>Molecular Ecology</i> , 2012, 21, 4344-4358.	3.9	171
9	Do outbreaks affect genetic population structure? A worldwide survey in <i>Locusta migratoria</i> , a pest plagued by microsatellite null alleles. <i>Molecular Ecology</i> , 2008, 17, 3640-3653.	3.9	152
10	Density-dependent warning coloration. <i>Nature</i> , 1999, 397, 217-217.	27.8	145
11	Density-dependent aposematism in the desert locust. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2000, 267, 63-68.	2.6	140
12	Sustainable Management of Insect Herbivores in Grassland Ecosystems: New Perspectives in Grasshopper Control. <i>BioScience</i> , 2006, 56, 743.	4.9	115
13	From Molecules to Management: Mechanisms and Consequences of Locust Phase Polyphenism. <i>Advances in Insect Physiology</i> , 2017, 53, 167-285.	2.7	101
14	Endophytic <i>Lecanicillium lecanii</i> and <i>Beauveria bassiana</i> reduce the survival and fecundity of <i>Aphis gossypii</i> following contact with conidia and secondary metabolites. <i>Crop Protection</i> , 2011, 30, 349-353.	2.1	97
15	Locusts. <i>Current Biology</i> , 2008, 18, R364-R366.	3.9	95
16	Phase polyphenism and preventative locust management. <i>Journal of Insect Physiology</i> , 2010, 56, 949-957.	2.0	94
17	Nutritional ecology beyond the individual: a conceptual framework for integrating nutrition and social interactions. <i>Ecology Letters</i> , 2015, 18, 273-286.	6.4	92
18	Nutritional state and collective motion: from individuals to mass migration. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 356-363.	2.6	91

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19	A role for phenotypic plasticity in the evolution of aposematism. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2002, 269, 1639-1644.	2.6	87
20	Migratory bands give crickets protection. <i>Nature</i> , 2005, 433, 703-703.	27.8	80
21	Tasty on the outside, but toxic in the middle: grasshopper regurgitation and host plant-mediated toxicity to a vertebrate predator. <i>Oecologia</i> , 2001, 128, 416-421.	2.0	73
22	Spatial and Temporal Variation in Fungal Endophyte Communities Isolated from Cultivated Cotton (<i>Gossypium hirsutum</i>). <i>PLoS ONE</i> , 2013, 8, e66049.	2.5	69
23	Immediate protein dietary effects on movement and the generalised immunocompetence of migrating Mormon crickets <i>Anabrus simplex</i> (Orthoptera: Tettigoniidae). <i>Ecological Entomology</i> , 2009, 34, 663-668.	2.2	64
24	Assessment and validation of a suite of reverse transcription-quantitative PCR reference genes for analyses of density-dependent behavioural plasticity in the Australian plague locust. <i>BMC Molecular Biology</i> , 2011, 12, 7.	3.0	63
25	Rapid behavioural gregarization in the desert locust, <i>Schistocerca gregaria</i> entails synchronous changes in both activity and attraction to conspecifics. <i>Journal of Insect Physiology</i> , 2014, 65, 9-26.	2.0	61
26	Cannibalism can drive the evolution of behavioural phase polyphenism in locusts. <i>Ecology Letters</i> , 2012, 15, 1158-1166.	6.4	60
27	Use of cuticular lipids in grasshopper taxonomy: A study of variation in <i>Schistocerca shoshone</i> (Thomas). <i>Biochemical Systematics and Ecology</i> , 1995, 23, 383-398.	1.3	57
28	Behavioural phase change in the Australian plague locust, <i>Chortoicetes terminifera</i> , is triggered by tactile stimulation of the antennae. <i>Journal of Insect Physiology</i> , 2010, 56, 937-942.	2.0	57
29	Radiotelemetry reveals differences in individual movement patterns between outbreak and non-outbreak Mormon cricket populations. <i>Ecological Entomology</i> , 2005, 30, 548-555.	2.2	56
30	Developmental specialization and geographic structure of host plant use in a polyphagous grasshopper, <i>Schistocerca emarginata</i> (= <i>lineata</i>) (Orthoptera: Acrididae). <i>Oecologia</i> , 1999, 120, 437-445.	2.0	55
31	Modeling spatiotemporal dynamics of outbreaking species: influence of environment and migration in a locust. <i>Ecology</i> , 2015, 96, 737-748.	3.2	55
32	Ancient trans-Atlantic flight explains locust biogeography: molecular phylogenetics of <i>Schistocerca</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 767-774.	2.6	51
33	Host plant-associated genetic differentiation in the snakeweed grasshopper, <i>Hesperotettix viridis</i> (Orthoptera: Acrididae). <i>Molecular Ecology</i> , 2005, 14, 2197-2205.	3.9	50
34	Group structure in locust migratory bands. <i>Behavioral Ecology and Sociobiology</i> , 2011, 65, 265-273.	1.4	48
35	Behavioural phase polyphenism in the Australian plague locust (<i>Chortoicetes terminifera</i>). <i>Biology Letters</i> , 2009, 5, 306-309.	2.3	47
36	To be or not to be a locust? A comparative analysis of behavioral phase change in nymphs of <i>Schistocerca americana</i> and <i>S. gregaria</i> . <i>Journal of Insect Physiology</i> , 2003, 49, 709-717.	2.0	43

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37	Bio-effects of near-zero magnetic fields on the growth, development and reproduction of small brown planthopper, <i>Laodelphax striatellus</i> and brown planthopper, <i>Nilaparvata lugens</i> . <i>Journal of Insect Physiology</i> , 2014, 68, 7-15.	2.0	43
38	Locusts and Grasshoppers: Behavior, Ecology, and Biogeography. <i>Psyche: Journal of Entomology</i> , 2011, 2011, 1-4.	0.9	42
39	Modelling nutrition across organizational levels: From individuals to superorganisms. <i>Journal of Insect Physiology</i> , 2014, 69, 2-11.	2.0	42
40	THE IMPORTANCE OF THE ONTOGENETIC NICHE IN RESOURCE-ASSOCIATED DIVERGENCE: EVIDENCE FROM A GENERALIST GRASSHOPPER. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 731-740.	2.3	40
41	Foraging by generalist grasshoppers: two different strategies. <i>Animal Behaviour</i> , 1996, 52, 155-165.	1.9	38
42	Using field data to test locust migratory band collective movement models. <i>Interface Focus</i> , 2012, 2, 757-763.	3.0	38
43	The fungal endophyte <i>Chaetomium globosum</i> negatively affects both above- and belowground herbivores in cotton. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw158.	2.7	38
44	Cannibalism in the lifeboat " collective movement in Australian plague locusts. <i>Behavioral Ecology and Sociobiology</i> , 2011, 65, 1715-1720.	1.4	37
45	Whole genome comparisons reveal panmixia among fall armyworm (<i>Spodoptera frugiperda</i>) from diverse locations. <i>BMC Genomics</i> , 2021, 22, 179.	2.8	37
46	Predator Percolation, Insect Outbreaks, and Phase Polyphenism. <i>Current Biology</i> , 2009, 19, 20-24.	3.9	36
47	Linking Locust Gregarization to Local Resource Distribution Patterns Across a Large Spatial Scale. <i>Environmental Entomology</i> , 2004, 33, 1577-1583.	1.4	35
48	Advances, controversies and consensus in locust phase polyphenism research. <i>Journal of Orthoptera Research</i> , 2005, 14, 213-222.	1.0	35
49	Revisiting macronutrient regulation in the polyphagous herbivore <i>Helicoverpa zea</i> (Lepidoptera: Tj ETQq1 1 0.784314 rgBT /Overlock	2.0	35
50	Evidence for Widespread Genomic Methylation in the Migratory Locust, <i>Locusta migratoria</i> (Orthoptera: Acrididae). <i>PLoS ONE</i> , 2011, 6, e28167.	2.5	34
51	First draft genome assembly of the desert locust, <i>Schistocerca gregaria</i> . <i>F1000Research</i> , 2020, 9, 775.	1.6	34
52	The importance of palpation in food selection by a polyphagous grasshopper (Orthoptera: Acrididae). <i>Journal of Insect Behavior</i> , 1993, 6, 79-91.	0.7	33
53	Local population density and the activation of movement in migratory band-forming Mormon crickets. <i>Animal Behaviour</i> , 2005, 69, 437-444.	1.9	33
54	Endophytic fungi alter sucking bug responses to cotton reproductive structures. <i>Insect Science</i> , 2017, 24, 1003-1014.	3.0	33

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55	Challenges to assessing connectivity between massive populations of the Australian plague locust. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 3152-3160.	2.6	32
56	Rice stripe virus counters reduced fecundity in its insect vector by modifying insect physiology, primary endosymbionts and feeding behavior. <i>Scientific Reports</i> , 2015, 5, 12527.	3.3	32
57	Grasshopper Herbivory Affects Native Plant Diversity and Abundance in a Grassland Dominated by the Exotic Grass <i>Agropyron cristatum</i> . <i>Restoration Ecology</i> , 2009, 17, 89-96.	2.9	30
58	Nuclear insertions and heteroplasmy of mitochondrial DNA as two sources of intra-individual genomic variation in grasshoppers. <i>Systematic Entomology</i> , 2011, 36, 285-299.	3.9	30
59	The Social Context of Cannibalism in Migratory Bands of the Mormon Cricket. <i>PLoS ONE</i> , 2010, 5, e15118.	2.5	30
60	Biological Foundations of Swarm Intelligence. <i>Natural Computing Series</i> , 2008, , 3-41.	2.2	29
61	Spatio-Temporal, Genotypic, and Environmental Effects on Plant Soluble Protein and Digestible Carbohydrate Content: Implications for Insect Herbivores with Cotton as an Exemplar. <i>Journal of Chemical Ecology</i> , 2016, 42, 1151-1163.	1.8	29
62	A fungal endophyte defensive symbiosis affects plant-nematode interactions in cotton. <i>Plant and Soil</i> , 2018, 422, 251-266.	3.7	29
63	Double trouble for grasshopper molecular systematics: intra-individual heterogeneity of both mitochondrial 12S-valine-16S and nuclear internal transcribed spacer ribosomal DNA sequences in <i>Hesperotettix viridis</i> (Orthoptera: Acrididae). <i>Systematic Entomology</i> , 2007, 32, 420-428.	3.9	28
64	Optimizing multivariate behavioural syndrome models in locusts using automated video tracking. <i>Animal Behaviour</i> , 2012, 84, 771-784.	1.9	28
65	Integrated modelling of the life cycle and aeroecology of wind-borne pests in temporally-variable spatially-heterogeneous environment. <i>Ecological Modelling</i> , 2019, 399, 23-38.	2.5	28
66	Epigenetics and developmental plasticity in orthopteroid insects. <i>Current Opinion in Insect Science</i> , 2018, 25, 25-34.	4.4	26
67	The Role of Spatial Aggregation in Forensic Entomology: Table 1.. <i>Journal of Medical Entomology</i> , 2014, 51, 1-9.	1.8	25
68	Taxa-specific heat shock proteins are over-expressed with crowding in the Australian plague locust. <i>Journal of Insect Physiology</i> , 2011, 57, 1562-1567.	2.0	24
69	First draft genome assembly of the desert locust, <i>Schistocerca gregaria</i> . <i>F1000Research</i> , 2020, 9, 775.	1.6	24
70	Is there an intraspecific role for density-dependent colour change in the desert locust?. <i>Animal Behaviour</i> , 2000, 59, 861-870.	1.9	23
71	Laboratory Populations as a Resource for Understanding the Relationship Between Genotypes and Phenotypes. <i>Advances in Insect Physiology</i> , 2010, , 1-37.	2.7	23
72	Host-associated differentiation in a highly polyphagous, sexually reproducing insect herbivore. <i>Ecology and Evolution</i> , 2015, 5, 2533-2543.	1.9	23

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73	An Advanced Numerical Trajectory Model Tracks a Corn Earworm Moth Migration Event in Texas, USA. <i>Insects</i> , 2018, 9, 115.	2.2	22
74	Cryptochromes and Hormone Signal Transduction under Near-Zero Magnetic Fields: New Clues to Magnetic Field Effects in a Rice Planthopper. <i>PLoS ONE</i> , 2015, 10, e0132966.	2.5	21
75	An Experimental Analysis of Grasshopper Community Responses to Fire and Livestock Grazing in a Northern Mixed-Grass Prairie. <i>Environmental Entomology</i> , 2010, 39, 1441-1446.	1.4	20
76	Variation in the surface lipids of the grasshopper, <i>Schistocerca americana</i> (Drury). <i>Biochemical Systematics and Ecology</i> , 1994, 22, 563-575.	1.3	19
77	Adsorbent-SERS Technique for Determination of Plant VOCs from Live Cotton Plants and Dried Teas. <i>ACS Omega</i> , 2020, 5, 2779-2790.	3.5	19
78	Phase Polyphenism in Locusts. , 2009, , .		18
79	Eight polymorphic microsatellite loci for the Australian plague locust, <i>Chortoicetes terminifera</i> . <i>Molecular Ecology Resources</i> , 2008, 8, 1414-1416.	4.8	17
80	Quantifying Plant Soluble Protein and Digestible Carbohydrate Content, Using Corn (&em>Zea mays) by Near-Infrared Spectroscopy. <i>Journal of Agricultural and Food Research</i> , 2019, 1, 1-10.	0.8	17
81	In Vitro and In Planta Compatibility of Insecticides and the Endophytic Entomopathogen, <i>Lecanicillium lecanii</i> . <i>Mycopathologia</i> , 2011, 172, 161-168.	3.1	16
82	Reduced geomagnetic field may affect positive phototaxis and flight capacity of a migratory rice planthopper. <i>Animal Behaviour</i> , 2016, 121, 107-116.	1.9	16
83	Tapping Into the Cotton Fungal Phytobiome for Novel Nematode Biological Control Tools. <i>Phytobiomes Journal</i> , 2020, 4, 19-26.	2.7	13
84	Behavioral evidence for a magnetic sense in the oriental armyworm, <i>Mythimna separata</i> . <i>Biology Open</i> , 2017, 6, 340-347.	1.2	12
85	Multiscale analyses on a massive immigration process of <i>Sogatella furcifera</i> (Horváth) in south-central China: influences of synoptic-scale meteorological conditions and topography. <i>International Journal of Biometeorology</i> , 2018, 62, 1389-1406.	3.0	12
86	Foraging on Individual Leaves by an Intracellular Feeding Insect Is Not Associated with Leaf Biomechanical Properties or Leaf Orientation. <i>PLoS ONE</i> , 2013, 8, e80911.	2.5	11
87	Population structures of three <i>Calliptamus</i> spp. (Orthoptera: Acrididae) across the Western Mediterranean Basin. <i>European Journal of Entomology</i> , 2012, 109, 445-455.	1.2	11
88	A comparative analysis of fine-scale genetic structure in three closely related syntopic species of the grasshopper genus <i>Calliptamus</i> . <i>Canadian Journal of Zoology</i> , 2012, 90, 31-41.	1.0	10
89	Long microsatellites and unusually high levels of genetic diversity in the Orthoptera. <i>Insect Molecular Biology</i> , 2012, 21, 181-186.	2.0	10
90	Geomagnetic field absence reduces adult body weight of a migratory insect by disrupting feeding behavior and appetite regulation. <i>Insect Science</i> , 2021, 28, 251-260.	3.0	10

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91	Population genomics and phylogeography of the boll weevil, <i>Anthonomus grandis</i> Boheman (Coleoptera: Curculionidae), in the United States, northern Mexico, and Argentina. <i>Evolutionary Applications</i> , 2021, 14, 1778-1793.	3.1	10
92	Protein-carbohydrate regulation in <i>Helicoverpa amigera</i> and <i>H. punctigera</i> and how diet protein-carbohydrate content affects insect susceptibility to Bt toxins. <i>Journal of Insect Physiology</i> , 2018, 106, 88-95.	2.0	9
93	Novel real-time PCR based assays for differentiating fall armyworm strains using four single nucleotide polymorphisms. <i>PeerJ</i> , 2021, 9, e12195.	2.0	9
94	Patterns of genomic and allochronic strain divergence in the fall armyworm, <i>Spodoptera frugiperda</i> (J.E. Smith). <i>Ecology and Evolution</i> , 2022, 12, e8706.	1.9	9
95	Molecular characterization, spatial-temporal expression and magnetic response patterns of iron-sulfur cluster assembly1 (<i>IscA1</i>) in the rice planthopper, <i>Nilaparvata lugens</i> . <i>Insect Science</i> , 2019, 26, 413-423.	3.0	8
96	Plant Response and Economic Injury Levels for a Boll-Feeding Sucking Bug Complex on Cotton. <i>Journal of Economic Entomology</i> , 2019, 112, 1227-1236.	1.8	7
97	Physiological and transcriptional immune responses of a non-model arthropod to infection with different entomopathogenic groups. <i>PLoS ONE</i> , 2022, 17, e0263620.	2.5	7
98	First evidence of protein-carbohydrate regulation in a plant bug (<i>Lygus hesperus</i>). <i>Journal of Insect Physiology</i> , 2019, 116, 118-124.	2.0	6
99	Change in geomagnetic field intensity alters migration-associated traits in a migratory insect. <i>Biology Letters</i> , 2020, 16, 20190940.	2.3	6
100	Fungal Endophytes in Knock Out® Rose and Performance Effects of Entomopathogens on Marigold and Zinnia. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2018, 53, 1791-1798.	1.0	5
101	Radiotelemetric Analysis of the Effects of Prevailing Wind Direction on Mormon Cricket Migratory Band Movement. <i>Environmental Entomology</i> , 2008, 37, 889-896.	1.4	5
102	THE IMPORTANCE OF THE ONTOGENETIC NICHE IN RESOURCE-ASSOCIATED DIVERGENCE: EVIDENCE FROM A GENERALIST GRASSHOPPER. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 731.	2.3	4
103	Polyphenism in Insects. <i>Current Biology</i> , 2012, 22, 352.	3.9	4
104	Characterization of transgenic cotton (<i>Gossypium hirsutum</i> L.) over-expressing <i>Arabidopsis thaliana</i> Related to ABA-insensitive3(<i>ABI3</i>)/ <i>Viviparous1</i> (<i>AtRAV1</i>) and <i>AtABI5</i> transcription factors: improved water use efficiency through altered guard cell physiology. <i>Plant Biotechnology Reports</i> , 2017, 11, 339-353.	1.5	4
105	Evolving migration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16753-16754.	7.1	2
106	Foliar herbivory increases sucrose concentration in bracteal extrafloral nectar of cotton. <i>PLoS ONE</i> , 2021, 16, e0258836.	2.5	2
107	A Beneficial Plant-Associated Fungus Shifts the Balance toward Plant Growth over Resistance, Increasing Cucumber Tolerance to Root Herbivory. <i>Plants</i> , 2022, 11, 282.	3.5	2
108	Evolution: Radiotracking Sexual Selection. <i>Current Biology</i> , 2008, 18, R955-R956.	3.9	1

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109	Photoperiod-Specific Within-Plant Distribution of the Green Stink Bug (Hemiptera: Pentatomidae) on Cotton. <i>Environmental Entomology</i> , 2019, 48, 1234-1240.	1.4	1
110	Protein-carbohydrate regulation and nutritionally mediated responses to Bt are affected by caterpillar population history. <i>Pest Management Science</i> , 2021, 77, 335-342.	3.4	1
111	Olfactometer Responses of Convergent Lady Beetles <i>Hippodamia convergens</i> (Coleoptera: Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Insects, 2022, 13, 157.	2.2	1
112	Gene Transfer. , 2008, , 1599-1599.		0
113	Sampling Volatile Organic Compounds from Individual Cotton Leaves to Test Effects of Fungal Endophyte Treatments. <i>Southwestern Entomologist</i> , 2021, 46, .	0.2	0
114	Resin cast impressions as a tool for microscopic observations of fungal epiphytes on leaves. <i>Journal of Microbiological Methods</i> , 2021, 186, 106237.	1.6	0
115	Plant-associated fungi affects above-and below ground pest responses to soybean plants. <i>Journal of Applied Microbiology</i> , 2022, , .	3.1	0
116	Analysis of Inducible Terpenoids in Cotton Leaves to Test for Indirect Plant-Endophyte-Herbivore Interactions. <i>Journal of Entomological Science</i> , 2022, 57, 114-118.	0.3	0