

# Gregory A Sword

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Olfactometer Responses of Convergent Lady Beetles <i>Hippodamia convergens</i> (Coleoptera: Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tj ETQq1 1 0.784314 Insects, 2022, 13, 157.	2.2	1
2	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
3	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
4	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
5	Plant-associated fungi affects above and below ground pest responses to soybean plants. <i>Journal of Applied Microbiology</i> , 2022, , .	3.1	0
6	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
7	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
8	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
9	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
10	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
11	Sampling Volatile Organic Compounds from Individual Cotton Leaves to Test Effects of Fungal Endophyte Treatments. <i>Southwestern Entomologist</i> , 2021, 46, .	0.2	0
12	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
13	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
14	Foliar herbivory increases sucrose concentration in bracteal extrafloral nectar of cotton. <i>PLoS ONE</i> , 2021, 16, e0258836.	2.5	2
15	Tapping Into the Cotton Fungal Phytobiome for Novel Nematode Biological Control Tools. <i>Phytobiomes Journal</i> , 2020, 4, 19-26.	2.7	13
16	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
17	Change in geomagnetic field intensity alters migration-associated traits in a migratory insect. <i>Biology Letters</i> , 2020, 16, 20190940.	2.3	6
18	First draft genome assembly of the desert locust, <i>Schistocerca gregaria</i> . <i>F1000Research</i> , 2020, 9, 775.	1.6	24

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19	First draft genome assembly of the desert locust, <i>Schistocerca gregaria</i> . <i>F1000Research</i> , 2020, 9, 775.	1.6	34
20	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
21	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
22	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
23	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
24	Molecular characterization, spatial-temporal expression and magnetic response patterns of iron-sulfur cluster assembly1 ( <i>lscA1</i> ) in the rice planthopper, <i>Nilaparvata lugens</i> . <i>Insect Science</i> , 2019, 26, 413-423.	3.0	8
25	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
26	A fungal endophyte defensive symbiosis affects plant-nematode interactions in cotton. <i>Plant and Soil</i> , 2018, 422, 251-266.	3.7	29
27	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
28	Epigenetics and developmental plasticity in orthopteroid insects. <i>Current Opinion in Insect Science</i> , 2018, 25, 25-34.	4.4	26
29	An Advanced Numerical Trajectory Model Tracks a Corn Earworm Moth Migration Event in Texas, USA. <i>Insects</i> , 2018, 9, 115.	2.2	22
30	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
31	Quantifying Plant Soluble Protein and Digestible Carbohydrate Content, Using Corn (<em>Zea mays</em> L.) and Soybean (<em>Glycine max</em> L.)	0.3	17
32	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
33	Endophytic fungi alter sucking bug responses to cotton reproductive structures. <i>Insect Science</i> , 2017, 24, 1003-1014.	3.0	33
34	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
35	From Molecules to Management: Mechanisms and Consequences of Locust Phase Polyphenism. <i>Advances in Insect Physiology</i> , 2017, 53, 167-285.	2.7	101
36	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

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37	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
38	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
39	Host-associated differentiation in a highly polyphagous, sexually reproducing insect herbivore. <i>Ecology and Evolution</i> , 2015, 5, 2533-2543.	1.9	23
40	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
41	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
42	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
43	Modeling spatiotemporal dynamics of outbreaking species: influence of environment and migration in a locust. <i>Ecology</i> , 2015, 96, 737-748.	3.2	55
44	Revisiting macronutrient regulation in the polyphagous herbivore <i>Helicoverpa zea</i> (Lepidoptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227	2.0	35
45	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
46	The Role of Spatial Aggregation in Forensic Entomology: Table 1.. <i>Journal of Medical Entomology</i> , 2014, 51, 1-9.	1.8	25
47	Modelling nutrition across organizational levels: From individuals to superorganisms. <i>Journal of Insect Physiology</i> , 2014, 69, 2-11.	2.0	42
48	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
49	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
50	The Entomopathogenic Fungal Endophytes <i>Purpureocillium lilacinum</i> (Formerly <i>Paecilomyces</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Greenhouse and Field Conditions. <i>PLoS ONE</i> , 2014, 9, e103891.	2.5	176
51	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
52	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
53	Using field data to test locust migratory band collective movement models. <i>Interface Focus</i> , 2012, 2, 757-763.	3.0	38
54	Cannibalism can drive the evolution of behavioural phase polyphenism in locusts. <i>Ecology Letters</i> , 2012, 15, 1158-1166.	6.4	60

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55	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
56	Optimizing multivariate behavioural syndrome models in locusts using automated video tracking. <i>Animal Behaviour</i> , 2012, 84, 771-784.	1.9	28
57	Polyphenism in Insects. <i>Current Biology</i> , 2012, 22, 352.	3.9	4
58	Long microsatellites and unusually high levels of genetic diversity in the Orthoptera. <i>Insect Molecular Biology</i> , 2012, 21, 181-186.	2.0	10
59	Mitochondrial genomes reveal the global phylogeography and dispersal routes of the migratory locust. <i>Molecular Ecology</i> , 2012, 21, 4344-4358.	3.9	171
60	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
61	Locusts and Grasshoppers: Behavior, Ecology, and Biogeography. <i>Psyche: Journal of Entomology</i> , 2011, 1-4.	0.9	42
62	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
63	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
64	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
65	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
66	Polyphenism in Insects. <i>Current Biology</i> , 2011, 21, R738-R749.	3.9	320
67	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
68	Group structure in locust migratory bands. <i>Behavioral Ecology and Sociobiology</i> , 2011, 65, 265-273.	1.4	48
69	Cannibalism in the lifeboat " collective movement in Australian plague locusts. <i>Behavioral Ecology and Sociobiology</i> , 2011, 65, 1715-1720.	1.4	37
70	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
71	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
72	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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73	Evidence for Widespread Genomic Methylation in the Migratory Locust, <i>Locusta migratoria</i> (Orthoptera: Acrididae). PLoS ONE, 2011, 6, e28167.	2.5	34
74	Behavioural phase change in the Australian plague locust, <i>Chortoicetes terminifera</i> , is triggered by tactile stimulation of the antennae. Journal of Insect Physiology, 2010, 56, 937-942.	2.0	57
75	Phase polyphenism and preventative locust management. Journal of Insect Physiology, 2010, 56, 949-957.	2.0	94
76	Colonization of crop plants by fungal entomopathogens and their effects on two insect pests when in planta. Biological Control, 2010, 55, 34-41.	3.0	216
77	Laboratory Populations as a Resource for Understanding the Relationship Between Genotypes and Phenotypes. Advances in Insect Physiology, 2010, , 1-37.	2.7	23
78	Evolving migration. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16753-16754.	7.1	2
79	An Experimental Analysis of Grasshopper Community Responses to Fire and Livestock Grazing in a Northern Mixed-Grass Prairie. Environmental Entomology, 2010, 39, 1441-1446.	1.4	20
80	The Social Context of Cannibalism in Migratory Bands of the Mormon Cricket. PLoS ONE, 2010, 5, e15118.	2.5	30
81	Immediate protein dietary effects on movement and the generalised immunocompetence of migrating Mormon crickets (<i>Anabrus simplex</i> (Orthoptera: Tettigoniidae). Ecological Entomology, 2009, 34, 663-668.	2.2	64
82	Behavioural phase polyphenism in the Australian plague locust ( <i>Chortoicetes terminifera</i> ). Biology Letters, 2009, 5, 306-309.	2.3	47
83	Predator Percolation, Insect Outbreaks, and Phase Polyphenism. Current Biology, 2009, 19, 20-24.	3.9	36
84	Grasshopper Herbivory Affects Native Plant Diversity and Abundance in a Grassland Dominated by the Exotic Grass <i>Agropyron cristatum</i>. Restoration Ecology, 2009, 17, 89-96.	2.9	30
85	Phase Polyphenism in Locusts. , 2009, , .		18
86	Do outbreaks affect genetic population structure? A worldwide survey in<i>Locusta migratoria</i>, a pest plagued by microsatellite null alleles. Molecular Ecology, 2008, 17, 3640-3653.	3.9	152
87	Locusts. Current Biology, 2008, 18, R364-R366.	3.9	95
88	Collective Motion and Cannibalism in Locust Migratory Bands. Current Biology, 2008, 18, 735-739.	3.9	255
89	Evolution: Radiotracking Sexual Selection. Current Biology, 2008, 18, R955-R956.	3.9	1
90	Gene Transfer. , 2008, , 1599-1599.		0

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91	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
92	Biological Foundations of Swarm Intelligence. <i>Natural Computing Series</i> , 2008, , 3-41.	2.2	29
93	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
94	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
95	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
96	Sustainable Management of Insect Herbivores in Grassland Ecosystems: New Perspectives in Grasshopper Control. <i>BioScience</i> , 2006, 56, 743.	4.9	115
97	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
98	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
99	Migratory bands give crickets protection. <i>Nature</i> , 2005, 433, 703-703.	27.8	80
100	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
101	Advances, controversies and consensus in locust phase polyphenism research. <i>Journal of Orthoptera Research</i> , 2005, 14, 213-222.	1.0	35
102	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
103	Linking Locust Gregarization to Local Resource Distribution Patterns Across a Large Spatial Scale. <i>Environmental Entomology</i> , 2004, 33, 1577-1583.	1.4	35
104	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
105	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
106	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
107	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
108	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

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109	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
110	Density-dependent aposematism in the desert locust. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2000, 267, 63-68.	2.6	140
111	Density-dependent warning coloration. <i>Nature</i> , 1999, 397, 217-217.	27.8	145
112	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
113	Foraging by generalist grasshoppers: two different strategies. <i>Animal Behaviour</i> , 1996, 52, 155-165.	1.9	38
114	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
115	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
116	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