Aaron J Gassmann

List of Publications by Year
in descending order

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55 papers	3,609 citations	186209 28 h-index	168321 53 g-index
55 all docs	55 docs citations	55 times ranked	2066 citing authors

#	Article	IF	Citations
1	Linking land use patterns and pest outbreaks in Bt maize. Ecological Applications, 2021, 31, e02295.	1.8	6
2	Resistance to Bt Maize by Western Corn Rootworm: Effects of Pest Biology, the Pestâ€“Crop Interaction and the Agricultural Landscape on Resistance. Insects, 2021, 12, 136.	1.0	38
3	Up-regulation of apoptotic- and cell survival-related gene pathways following exposures of western corn rootworm to B. thuringiensis crystalline pesticidal proteins in transgenic maize roots. BMC Genomics, 2021, 22, 639.	1.2	4
4	Fieldâ€evolved resistance by western corn rootworm to Cry34/35Ab1 and other Bacillus thuringiensis traits in transgenic maize. Pest Management Science, 2020, 76, 268-276.	1.7	64
5	Inheritance and Fitness Costs of Cry3Bb1 Resistance in Diapausing Field Strains of Western Corn Rootworm (Coleoptera: Chrysomelidae). Journal of Economic Entomology, 2020, 113, 2873-2882.	0.8	6
6	Applying a Selection Experiment to Test for Fitness Costs of Bt Resistance in Western Corn Rootworm (Coleoptera: Chrysomelidae) and the Effect of Density on Fitness Costs. Journal of Economic Entomology, 2020, 113, 2473-2479.	0.8	5
7	Comparing Populations of Western Corn Rootworm (Coleoptera: Chrysomelidae) in Regions With and Without a History of Injury to Cry3 Corn. Journal of Economic Entomology, 2020, 113, 1839-1849.	0.8	7
8	Western corn rootworm abundance, injury to corn, and resistance to Cry3Bb1 in the local landscape of previous problem fields. PLoS ONE, 2020, 15, e0237094.	1.1	10
9	Evaluation of pyrethroids and organophosphates in insecticide mixtures for management of western corn rootworm larvae. Pest Management Science, 2020, 76, 3871-3878.	1.7	4
10	Field and Laboratory Studies of Resistance to Bt Corn by Western Corn Rootworm (Coleoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	0.8	7
11	Effects of larval density on dispersal and fecundity of western corn rootworm, Diabrotica virgifera virgifera LeConte (Coleoptera: Chrysomelidae). PLoS ONE, 2019, 14, e0212696.	1.1	7
12	Effects of field history on resistance to Bt maize by western corn rootworm, Diabrotica virgifera virgifera LeConte (Coleoptera: Chrysomelidae). PLoS ONE, 2018, 13, e0200156.	1.1	26
13	Effects of endophytic entomopathogenic fungi on soybean aphid and identification of Metarhizium isolates from agricultural fields. PLoS ONE, 2018, 13, e0194815.	1.1	47
14	How well will stacked transgenic pest/herbicide resistances delay pests from evolving resistance?. Pest Management Science, 2017, 73, 22-34.	1.7	36
15	Assessment of Inheritance and Fitness Costs Associated with Field-Evolved Resistance to Cry3Bb1 Maize by Western Corn Rootworm. Toxins, 2017, 9, 159.	1.5	22
16	Evidence of Resistance to Cry34/35Ab1 Corn by Western Corn Rootworm (Coleoptera: Chrysomelidae): Root Injury in the Field and Larval Survival in Plant-Based Bioassays. Journal of Economic Entomology, 2016, 109, 1872-1880.	0.8	92
17	Broad-spectrum resistance to Bacillus thuringiensis toxins by western corn rootworm (Diabrotica) Tj ETQq1 1 0.784314 rgBT /Overlock	1.6	96
18	Field-Based Assessment of Resistance to Bt Corn by Western Corn Rootworm (Coleoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td	0.8	11

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19	Resistance to Bt maize by western corn rootworm: insights from the laboratory and the field. Current Opinion in Insect Science, 2016, 15, 111-115.	2.2	29
20	Effects of refuges on the evolution of resistance to transgenic corn by the western corn rootworm, Diabrotica virgifera virgifera<scp>LeConte</scp>. Pest Management Science, 2016, 72, 190-198.	1.7	28
21	Effects of Field History on Corn Root Injury and Adult Abundance of Northern and Western Corn Rootworm (Coleoptera: Chrysomelidae). Journal of Economic Entomology, 2016, 109, 2096-2104.	0.8	14
22	Early Detection and Mitigation of Resistance toBtMaize by Western Corn Rootworm (Coleoptera: Chrysomelidae). Journal of Economic Entomology, 2016, 109, 1-12.	0.8	87
23	Susceptibility of Nebraska Western Corn Rootworm (Coleoptera: Chrysomelidae) Populations to Bt Corn Events. Journal of Economic Entomology, 2015, 108, 742-751.	0.8	90
24	Effects of Pyramided Bt Corn and Blended Refuges on Western Corn Rootworm and Northern Corn Rootworm (Coleoptera: Chrysomelidae). Journal of Economic Entomology, 2015, 108, 720-729.	0.8	22
25	Inheritance and Fitness Costs of Resistance to Cry3Bb1 Corn by Western Corn Rootworm (Coleoptera:) Tj ETQq1 1 0.784314 rgBT /Ove	0.8	41
26	Negative Cross-Resistance. , 2014, , 373-401.		5
27	Concepts and Complexities of Population Genetics. , 2014, , 149-183.		4
28	On-Plant Selection and Genetic Analysis of European Corn Borer (Lepidoptera: Crambidae) Behavioral Traits: Plant Abandonment Versus Plant Establishment. Environmental Entomology, 2014, 43, 1254-1263.	0.7	1
29	Effects of Entomopathogens on Mortality of Western Corn Rootworm (Coleoptera: Chrysomelidae) and Fitness Costs of Resistance to Cry3Bb1 Maize. Journal of Economic Entomology, 2014, 107, 352-360.	0.8	18
30	Field-evolved resistance by western corn rootworm to multiple Bacillus thuringiensis toxins in transgenic maize. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5141-5146.	3.3	296
31	Effect of Maize Lines on Larval Fitness Costs of Cry1F Resistance in the European Corn Borer (Lepidoptera: Crambidae). Journal of Economic Entomology, 2014, 107, 764-772.	0.8	11
32	Entomopathogenic fungi in cornfields and their potential to manage larval western corn rootworm Diabrotica virgifera virgifera. Journal of Invertebrate Pathology, 2013, 114, 329-332.	1.5	22
33	Interactions Among Bt Maize, Entomopathogens, and Rootworm Species (Coleoptera: Chrysomelidae) in the Field: Effects on Survival, Yield, and Root Injury. Journal of Economic Entomology, 2013, 106, 622-632.	0.8	32
34	Applying an Integrated Refuge to Manage Western Corn Rootworm (Coleoptera: Chrysomelidae): Effects on Survival, Fitness, and Selection Pressure. Journal of Economic Entomology, 2013, 106, 2195-2207.	0.8	10
35	Effect of Bt Maize and Soil Insecticides on Yield, Injury, and Rootworm Survival: Implications for Resistance Management. Journal of Economic Entomology, 2013, 106, 1941-1951.	0.8	42
36	Abundance and Distribution of Western and Northern Corn Rootworm (<I>Diabrotica</I>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 106, 168-180.	0.8	24

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37	Effects of Cry34/35Ab1 corn on the survival andÂdevelopment of western corn rootworm, Diabrotica virgifera virgifera. Pest Management Science, 2013, 69, 709-716.	1.7	5
38	Resistance to Bt Corn by Western Corn Rootworm (Coleoptera: Chrysomelidae) in the U.S. Corn Belt. Journal of Integrated Pest Management, 2013, 4, 1-6.	0.9	60
39	Western corn rootworm and Bt maize. GM Crops and Food, 2012, 3, 235-244.	2.0	72
40	Adaptation by Western Corn Rootworm (Coleoptera: Chrysomelidae) to Bt Maize: Inheritance, Fitness Costs, and Feeding Preference. Journal of Economic Entomology, 2012, 105, 1407-1418.	0.8	55
41	Effects of Entomopathogenic Nematodes on Evolution of Pink Bollworm Resistance to <I>Bacillus thuringiensis</I> Toxin Cry1Ac. Journal of Economic Entomology, 2012, 105, 994-1005.	0.8	16
42	Field-evolved resistance to Bt maize by western corn rootworm: Predictions from the laboratory and effects in the field. Journal of Invertebrate Pathology, 2012, 110, 287-293.	1.5	101
43	Fitness Cost of Resistance to Bt Cotton Linked with Increased Gossypol Content in Pink Bollworm Larvae. PLoS ONE, 2011, 6, e21863.	1.1	51
44	Field-Evolved Resistance to Bt Maize by Western Corn Rootworm. PLoS ONE, 2011, 6, e22629.	1.1	533
45	Effects of Four Nematode Species on Fitness Costs of Pink Bollworm Resistance to Bacillus thuringiensis Toxin Cry1Ac. Journal of Economic Entomology, 2010, 103, 1821-1831.	0.8	15
46	Tritrophic Effects of Host Plants on an Herbivore-Pathogen Interaction. Annals of the Entomological Society of America, 2010, 103, 371-378.	1.3	19
47	Effects of Pink Bollworm Resistance to <I>Bacillus thuringiensis</I> on Phenoloxidase Activity and Susceptibility to Entomopathogenic Nematodes. Journal of Economic Entomology, 2009, 102, 1224-1232.	0.8	32
48	Ecological compatibility of GM crops and biological control. Crop Protection, 2009, 28, 1017-1030.	1.0	70
49	Evolutionary analysis of herbivorous insects in natural and agricultural environments. Pest Management Science, 2009, 65, 1174-1181.	1.7	45
50	Fitness Costs of Insect Resistance to Bacillus thuringiensis. Annual Review of Entomology, 2009, 54, 147-163.	5.7	419
51	Synergism between entomopathogenic nematodes and Bacillus thuringiensis crops: integrating biological control and resistance management. Journal of Applied Ecology, 2008, 45, 957-966.	1.9	52
52	Insect resistance to Bt crops: evidence versus theory. Nature Biotechnology, 2008, 26, 199-202.	9.4	650
53	Effect of Entomopathogenic Nematodes on the Fitness Cost of Resistance to Bt Toxin Cry1Ac in Pink Bollworm (Lepidoptera: Gelechiidae). Journal of Economic Entomology, 2006, 99, 920-926.	0.8	52
54	Effect of Entomopathogenic Nematodes on the Fitness Cost of Resistance to Bt Toxin Cry1Ac in Pink Bollworm (Lepidoptera: Gelechiidae). Journal of Economic Entomology, 2006, 99, 920-926.	0.8	36

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55	Indirect cost of a defensive trait: variation in trichome type affects the natural enemies of herbivorous insects on Datura wrightii. Oecologia, 2005, 144, 62-71.	0.9	62