# Aaron J Gassmann

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6653397/publications.pdf

Version: 2024-02-01

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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 | Insect resistance to Bt crops: evidence versus theory. Nature Biotechnology, 2008, 26, 199-202. | 9.4 | 650 |
| 2 | Field-Evolved Resistance to Bt Maize by Western Corn Rootworm. PLoS ONE, 2011, 6, e22629. | 1.1 | 533 |
| 3 | Fitness Costs of Insect Resistance to Bacillus thuringiensis. Annual Review of Entomology, 2009, 54, 147-163. | 5.7 | 419 |
| 4 | 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 |
| 5 | 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 |
| 6 | Broad-spectrum resistance to Bacillus thuringiensis toxins by western corn rootworm (Diabrotica) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 1.6 | 96 |
| 7 | 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 |
| 8 | Susceptibility of Nebraska Western Corn Rootworm (Coleoptera: Chrysomelidae) Populations to Bt Corn Events. Journal of Economic Entomology, 2015, 108, 742-751. | 0.8 | 90 |
| 9 | Early Detection and Mitigation of Resistance toBtMaize by Western Corn Rootworm (Coleoptera: Chrysomelidae). Journal of Economic Entomology, 2016, 109, 1-12. | 0.8 | 87 |
| 10 | Western corn rootworm and Bt maize. GM Crops and Food, 2012, 3, 235-244. | 2.0 | 72 |
| 11 | Ecological compatibility of GM crops and biological control. Crop Protection, 2009, 28, 1017-1030. | 1.0 | 70 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | Fitness Cost of Resistance to Bt Cotton Linked with Increased Gossypol Content in Pink Bollworm Larvae. PLoS ONE, 2011, 6, e21863. | 1.1 | 51 |

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|---|---|---|---|
| 19 | Effects of endophytic entomopathogenic fungi on soybean aphid and identification of Metarhizium isolates from agricultural fields. PLoS ONE, 2018, 13, e0194815. | 1.1 | 47 |
| 20 | Evolutionary analysis of herbivorous insects in natural and agricultural environments. Pest Management Science, 2009, 65, 1174-1181. | 1.7 | 45 |
| 21 | 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 |
| 22 | Inheritance and Fitness Costs of Resistance to Cry3Bb1 Corn by Western Corn Rootworm (Coleoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 | 0.8 | 41 |
| 23 | 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 |
| 24 | How well will stacked transgenic pest/herbicide resistances delay pests from evolving resistance?. Pest Management Science, 2017, 73, 22-34. | 1.7 | 36 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | Abundance and Distribution of Western and Northern Corn Rootworm (<I>Diabrotica</I>) Tj ETQq1 1 0.784314 rgBT /Over<br>106, 168-180. | 0.8 | 24 |
| 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 | 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 |
| 34 | 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 |
| 35 | Tritrophic Effects of Host Plants on an Herbivore-Pathogen Interaction. Annals of the Entomological Society of America, 2010, 103, 371-378. | 1.3 | 19 |
| 36 | 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 |

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| 37 | 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 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | Field-Based Assessment of Resistance to Bt Corn by Western Corn Rootworm (Coleoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T | 0.8 | 11 |
| 42 | 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 |
| 43 | 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 |
| 44 | Field and Laboratory Studies of Resistance to Bt Corn by Western Corn Rootworm (Coleoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4 | 0.8 | 7 |
| 45 | 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 |
| 46 | 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 |
| 47 | 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 |
| 48 | Linking land use patterns and pest outbreaks in Bt maize. Ecological Applications, 2021, 31, e02295. | 1.8 | 6 |
| 49 | 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 |
| 50 | Negative Cross-Resistance. , 2014, , 373-401. | | 5 |
| 51 | 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 |
| 52 | Concepts and Complexities of Population Genetics. , 2014, , 149-183. | | 4 |
| 53 | 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 |
| 54 | 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 |

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|---|---|---|---|
| 55 | 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 |