Robert L Meagher Jr

List of Publications by Year
in descending order

95 papers	3,524 citations	101543 36 h-index	168389 53 g-index
99 all docs	99 docs citations	99 times ranked	1729 citing authors

#	Article	IF	Citations
1	Cry1F Resistance in Fall Armyworm Spodoptera frugiperda: Single Gene versus Pyramided Bt Maize. PLoS ONE, 2014, 9, e112958.	2.5	247
2	Analysis of strain distribution, migratory potential, and invasion history of fall armyworm populations in northern Sub-Saharan Africa. Scientific Reports, 2018, 8, 3710.	3.3	130
3	Inferring the annual migration patterns of fall armyworm (Lepidoptera: Noctuidae) in the United States from mitochondrial haplotypes. Ecology and Evolution, 2012, 2, 1458-1467.	1.9	129
4	Mechanism and DNA-based detection of field-evolved resistance to transgenic Bt corn in fall armyworm (Spodoptera frugiperda). Scientific Reports, 2017, 7, 10877.	3.3	110
5	Comparative molecular analyses of invasive fall armyworm in Togo reveal strong similarities to populations from the eastern United States and the Greater Antilles. PLoS ONE, 2017, 12, e0181982.	2.5	105
6	Global crop impacts, yield losses and action thresholds for fall armyworm (Spodoptera frugiperda): A review. Crop Protection, 2021, 145, 105641.	2.1	99
7	BEHAVIOR AND DISTRIBUTION OF THE TWO FALL ARMYWORM HOST STRAINS IN FLORIDA. Florida Entomologist, 2004, 87, 440-449.	0.5	91
8	Identification and Comparison of Fall Armyworm (Lepidoptera: Noctuidae) Host Strains in Brazil, Texas, and Florida. Annals of the Entomological Society of America, 2007, 100, 394-402.	2.5	89
9	Seasonal Distribution of Fall Armyworm (Lepidoptera: Noctuidae) Host Strains in Agricultural and Turf Grass Habitats. Environmental Entomology, 2004, 33, 881-889.	1.4	82
10	New Restriction Fragment Length Polymorphisms in the Cytochrome Oxidase I Gene Facilitate Host Strain Identification of Fall Armyworm (Lepidoptera: Noctuidae) Populations in the Southeastern United States. Journal of Economic Entomology, 2006, 99, 671-677.	1.8	81
11	Geographic Variation in Sexual Attraction of Spodoptera frugiperda Corn- and Rice-Strain Males to Pheromone Lures. PLoS ONE, 2014, 9, e89255.	2.5	79
12	Use of DNA Barcodes to Identify Invasive ArmywormSpodopteraSpecies in Florida. Journal of Insect Science, 2011, 11, 1-11.	1.5	77
13	Fall armyworm migration across the Lesser Antilles and the potential for genetic exchanges between North and South American populations. PLoS ONE, 2017, 12, e0171743.	2.5	74
14	Genetic comparisons of fall armyworm populations from 11 countries spanning sub-Saharan Africa provide insights into strain composition and migratory behaviors. Scientific Reports, 2019, 9, 8311.	3.3	73
15	Haplotype Profile Comparisons Between Spodoptera frugiperda (Lepidoptera: Noctuidae) Populations From Mexico With Those From Puerto Rico, South America, and the United States and Their Implications to Migratory Behavior. Journal of Economic Entomology, 2015, 108, 135-144.	1.8	66
16	Susceptibility of Field Populations of the Fall Armyworm (Lepidoptera: Noctuidae) from Florida and Puerto Rico to Purified Cry1f Protein and Corn Leaf Tissue Containing Single and Pyramided Bt Genes. Florida Entomologist, 2013, 96, 701-713.	0.5	64
17	Pheromonal Divergence Between Two Strains of Spodoptera frugiperda. Journal of Chemical Ecology, 2013, 39, 364-376.	1.8	63
18	Comparison of Haplotype Frequencies Differentiate Fall Armyworm (Lepidoptera: Noctuidae) Corn-Strain Populations from Florida and Brazil. Journal of Economic Entomology, 2007, 100, 954-961.	1.8	58

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19	Using Haplotypes to Monitor the Migration of Fall Armyworm (Lepidoptera: Noctuidae) Corn-Strain Populations from Texas and Florida. Journal of Economic Entomology, 2008, 101, 742-749.	1.8	58
20	Population dynamics and occurrence of Spodoptera frugiperda host strains in southern Florida. Ecological Entomology, 2004, 29, 614-620.	2.2	57
21	Genetic characterization of fall armyworm infesting South Africa and India indicate recent introduction from a common source population. PLoS ONE, 2019, 14, e0217755.	2.5	56
22	Trapping noctuid moths with synthetic floral volatile lures. Entomologia Experimentalis Et Applicata, 2002, 103, 219-226.	1.4	55
23	Demonstration Using Field Collections that Argentina Fall Armyworm Populations Exhibit Strain-specific Host Plant Preferences. Journal of Economic Entomology, 2015, 108, 2305-2315.	1.8	55
24	<I>FR</I> Tandem-Repeat Sequence in Fall Armyworm (Lepidoptera: Noctuidae) Host Strains. Annals of the Entomological Society of America, 2003, 96, 329-335.	2.5	53
25	Parasitoids attacking fall armyworm (Lepidoptera: Noctuidae) in sweet corn habitats. Biological Control, 2016, 95, 66-72.	3.0	53
26	Natural Enemies of the Fall Armyworm, Spodoptera frugiperda (J.E. Smith) (Lepidoptera: Noctuidae) in Ghana. Florida Entomologist, 2020, 103, 85.	0.5	52
27	Texas Is the Overwintering Source of Fall Armyworm in Central Pennsylvania: Implications for Migration Into the Northeastern United States. Environmental Entomology, 2009, 38, 1546-1554.	1.4	49
28	New Restriction Fragment Length Polymorphisms in the Cytochrome Oxidase I Gene Facilitate Host Strain Identification of Fall Armyworm (Lepidoptera: Noctuidae) Populations in the Southeastern United States. Journal of Economic Entomology, 2006, 99, 671-677.	1.8	45
29	Effects of Fall Armyworm (Lepidoptera: Noctuidae) Interstrain Mating in Wild Populations. Environmental Entomology, 2006, 35, 561-568.	1.4	44
30	Puerto Rico Fall Armyworm Has Only Limited Interactions With Those From Brazil or Texas but Could Have Substantial Exchanges With Florida Populations. Journal of Economic Entomology, 2010, 103, 360-367.	1.8	43
31	Comparison of Haplotype Frequencies Differentiate Fall Armyworm (Lepidoptera: Noctuidae) Corn-Strain Populations from Florida and Brazil. Journal of Economic Entomology, 2007, 100, 954-961.	1.8	43
32	Intraspecific differences in plant defense induction by fall armyworm strains. New Phytologist, 2018, 218, 310-321.	7.3	42
33	Microsatellite Markers Reveal a Predominant Sugarcane Aphid (Homoptera: Aphididae) Clone is Found on Sorghum in Seven States and One Territory of the USA. Crop Science, 2017, 57, 2064-2072.	1.8	41
34	Using Haplotypes to Monitor the Migration of Fall Armyworm (Lepidoptera: Noctuidae) Corn-Strain Populations from Texas and Florida. Journal of Economic Entomology, 2008, 101, 742-749.	1.8	41
35	Nontarget Hymenoptera Collected in Pheromone- and Synthetic Floral Volatile-Baited Traps. Environmental Entomology, 1999, 28, 367-371.	1.4	40
36	Collection of Soybean Looper and Other Noctuids in Phenylacetaldehyde-Baited Field Traps. Florida Entomologist, 2001, 84, 154.	0.5	39

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37	Whole genome comparisons reveal panmixia among fall armyworm (Spodoptera frugiperda) from diverse locations. BMC Genomics, 2021, 22, 179.	2.8	37
38	Life Table Studies ofRachiplusia nu(GuenÃ©e) andChrysodeixis(=Pseudoplusia)Includens(Walker) (Lepidoptera: Noctuidae) on Artificial Diet. Florida Entomologist, 2012, 95, 944-951.	0.5	35
39	Maize Infestation of Fall Armyworm (Lepidoptera: Noctuidae) Within Agro-Ecological Zones of Togo and Ghana in West Africa 3 Yr After Its Invasion. Environmental Entomology, 2020, 49, 645-650.	1.4	34
40	Attractiveness of binary blends of floral odorant compounds to moths in Florida, USA. Entomologia Experimentalis Et Applicata, 2008, 128, 323-329.	1.4	33
41	Genetic Characterization of Fall Armyworm (Lepidoptera: Noctuidae) Host Strains in Argentina. Journal of Economic Entomology, 2012, 105, 418-428.	1.8	32
42	A computational model to predict the population dynamics of Spodoptera frugiperda. Journal of Pest Science, 2019, 92, 429-441.	3.7	32
43	Distributional patterns of fall armyworm parasitoids in a corn field and a pasture field in Florida. Biological Control, 2016, 96, 48-56.	3.0	30
44	A novel reference dated phylogeny for the genus Spodoptera GuenÃ©e (Lepidoptera: Noctuidae:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Evolution, 2021, 161, 107161.	2.7	30
45	Trapping Fall Armyworm (Lepidoptera: Noctuidae) Adults in Traps Baited with Pheromone and a Synthetic Floral Volatile Compound. Florida Entomologist, 2001, 84, 288.	0.5	29
46	Using Stable Isotope Analysis to Examine Fall Armyworm (Lepidoptera: Noctuidae) Host Strains in a Cotton Habitat. Journal of Economic Entomology, 2007, 100, 1569-1576.	1.8	29
47	Interaction of acetic acid and phenylacetaldehyde as attractants for trapping pest species of moths (Lepidoptera: Noctuidae). Pest Management Science, 2013, 69, 245-249.	3.4	29
48	Comparison of pheromone trap design and lures for Spodoptera frugiperda in Togo and genetic characterization of moths caught. Entomologia Experimentalis Et Applicata, 2019, 167, 507-516.	1.4	29
49	Oviposition Choice of Two Fall Armyworm (Lepidoptera: Noctuidae) Host Strains. Journal of Insect Behavior, 2011, 24, 337-347.	0.7	26
50	Collection of Fall Armyworm (Lepidoptera: Noctuidae) Adults and Nontarget Hymenoptera in Different Colored Unitraps. Florida Entomologist, 2001, 84, 77.	0.5	25
51	Effects of Cyanogenic Plants on Fitness in Two Host Strains of the Fall Armyworm (Spodoptera) Tj ETQq1 1 0.784314 rgBT /Overlock	1.8	25
52	F2 screen for resistance to Bacillus thuringiensis Cry2Ab2-maize in field populations of Spodoptera frugiperda (Lepidoptera: Noctuidae) from the southern United States. Journal of Invertebrate Pathology, 2016, 138, 66-72.	3.2	25
53	Differential Feeding of Fall Armyworm Lepidoptera(Lepidoptera: Noctuidae) Host Strains on Meridic and Natural Diets. Annals of the Entomological Society of America, 2012, 105, 462-470.	2.5	23
54	Genetic studies of fall armyworm indicate a new introduction into Africa and identify limits to its migratory behavior. Scientific Reports, 2022, 12, 1941.	3.3	23

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55	Efficacies of Four Pheromone-Baited Traps in Capturing MaleHelicoverpa(Lepidoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.5	21
56	Demonstration and Quantification of Restricted Mating Between Fall Armyworm Host Strains in Field Collections by SNP Comparisons. Journal of Economic Entomology, 2017, 110, 2568-2575.	1.8	21
57	Contrasting insect attraction and herbivore-induced plant volatile production in maize. Planta, 2018, 248, 105-116.	3.2	21
58	Assessment of impacts of fall armyworm, Spodoptera frugiperda (Lepidoptera: Noctuidae) on maize production in Ghana. Journal of Integrated Pest Management, 2020, 11, .	2.0	21
59	Assessing the Resolution of Haplotype Distributions to Delineate Fall Armyworm (Lepidoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.8	16
60	Lethal and behavioral effects of synthetic and organic insecticides on Spodoptera exigua and its predator Podisus maculiventris. PLoS ONE, 2018, 13, e0206789.	2.5	16
61	The fall armyworm strain associated with most rice, millet, and pasture infestations in the Western Hemisphere is rare or absent in Ghana and Togo. PLoS ONE, 2021, 16, e0253528.	2.5	16
62	Using Stable Isotope Analysis to Examine Fall Armyworm (Lepidoptera: Noctuidae) Host Strains in a Cotton Habitat. Journal of Economic Entomology, 2007, 100, 1569-1576.	1.8	16
63	TRAPPING MOCIS SPP. (LEPIDOPTERA: NOCTUIDAE) ADULTS WITH DIFFERENT ATTRACTANTS. Florida Entomologist, 2005, 88, 424-430.	0.5	14
64	Effects of Low-Oxygen Environments on the Radiation Tolerance of the Cabbage Looper Moth (Lepidoptera: Noctuidae). Journal of Economic Entomology, 2016, 110, tow273.	1.8	14
65	Genetic Variation in Neonate Behavior of Fall Armyworm (Lepidoptera: Noctuidae). Florida Entomologist, 2008, 91, 151-158.	0.5	13
66	Examination of the Pest Status of Corn-Infesting Ulidiidae (Diptera). Environmental Entomology, 2012, 41, 1131-1138.	1.4	13
67	Structure and Distribution of a Strain-Biased Tandem Repeat Element in Fall Armyworm (Lepidoptera:) Tj ETQq1 1 0.784314 rgBT /Overl 2008, 101, 1112-1120.	2.5	12
68	Documenting Potential Sunn Hemp (Crotalaria junceaL.) (Fabaceae) Pollinators in Florida. Environmental Entomology, 2019, 48, 343-350.	1.4	12
69	CATERPILLAR (LEPIDOPTERA: NOCTUIDAE) FEEDING ON PASTURE GRASSES IN CENTRAL FLORIDA. Florida Entomologist, 2007, 90, 295-303.	0.5	11
70	Thermal Requirements and Development of <I>Herpetogramma phaeopteralis</I> (Lepidoptera: Crambidae: Spilomelinae). Journal of Economic Entomology, 2012, 105, 1573-1580.	1.8	11
71	Captures and Host Strains of Fall Armyworm (Lepidoptera: Noctuidae) Males in Traps Baited with Different Commercial Pheromone Blends. Florida Entomologist, 2013, 96, 729-740.	0.5	11
72	Trapping Spodoptera frugiperda (Lepidoptera: Noctuidae) Moths in Different Crop Habitats in Togo and Ghana. Journal of Economic Entomology, 2021, 114, 1138-1144.	1.8	11

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73	Attraction of Fall Armyworm Males (Lepidoptera: Noctuidae) to Host Strain Females. Environmental Entomology, 2013, 42, 751-757.	1.4	10
74	Occurrence of arthropod pests associated with Brassica carinata and impact of defoliation on yield. GCB Bioenergy, 2021, 13, 570-581.	5.6	10
75	Transcriptional differences between the two host strains of Spodoptera frugiperda (Lepidoptera:) Tj ETQq1 1 0.784314 rgBT /Overloc		9
76	Effect of fall armyworm Spodoptera frugiperda (Lepidoptera: Noctuidae) strain and diet on oviposition and development of the parasitoid Euplectrus platyhypenae (Hymenoptera: Eulophidae). Biological Control, 2013, 66, 21-26.	3.0	8
77	Assessing the Use of Wing Morphometrics to Identify Fall Armyworm (Lepidoptera: Noctuidae) Host Strains in Field Collections. Journal of Economic Entomology, 2020, 113, 800-807.	1.8	8
78	Collection of Fall Armyworm (Lepidoptera: Noctuidae) Using Selected Pheromone Lures and Trap Designs. Journal of Entomological Science, 2001, 36, 135-142.	0.3	8
79	Identification of Fall Armyworm (Lepidoptera: Noctuidae) Host Strains Based on Male-Derived Spermatophores. Florida Entomologist, 2010, 93, 191-197.	0.5	7
80	Attraction ofPlecia nearctica(Diptera: Bibionidae) to Floral Lures Containing Phenylacetaldehyde. Florida Entomologist, 2012, 95, 199-201.	0.5	7
81	Flowering of the Cover Crop Sunn Hemp, Crotalaria juncea L.. Hortscience: A Publication of the American Society for Hortcultural Science, 2017, 52, 986-990.	1.0	7
82	Turfgrass Cultivar Diversity Provides Associational Resistance in the Absence of Pest Resistant Cultivars. Environmental Entomology, 2019, 48, 623-632.	1.4	7
83	Monitoring Spodoptera frugiperda in Benin: assessing the influence of trap type, pheromone blends, and habitat on pheromone trapping. Florida Entomologist, 2022, 105, .	0.5	7
84	MATING BEHAVIOR AND FEMALE-PRODUCED PHEROMONE USE IN TROPICAL SOD WEBWORM (LEPIDOPTERA:) Tj ETQq0 0 0 rgBT /Ove	0.5	6
85	Binary Floral Lure Attractive to Velvetbean Caterpillar Adults (Lepidoptera: Noctuidae). Florida Entomologist, 2010, 93, 73-79.	0.5	6
86	Critical PO₂ as a diagnostic biomarker for the effects of lowâ€oxygen modified and controlled atmospheres on phytosanitary irradiation treatments in the cabbage looper <scp>Trichoplusia ni</scp> (HÃ¼bner). Pest Management Science, 2020, 76, 2333-2341.	3.4	6
87	Isolation and DNA Barcode Characterization of a PermanentTelenomus(Hymenoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T the Entomological Society of America, 2015, 108, 729-735.	2.5	5
88	Brassica nigra and Curcuma longa Compounds Affecting Interactions Between Spodoptera exigua and Its Natural Enemies Cotesia flavipes and Podisus maculiventris. Dose-Response, 2019, 17, 155932581982745.	1.6	5
89	Areawide management of fall armyworm, Spodoptera frugiperda (Lepidoptera: Noctuidae), using selected cover crop plants. CABI Agriculture and Bioscience, 2022, 3, .	2.4	5
90	Approaches for Assessing the Impact of Zea mays (Poaceae) on the Behavior of Spodoptera frugiperda (Lepidoptera: Noctuidae) and Its Parasitoid Cotesia marginiventris (Hymenoptera: Braconidae). Florida Entomologist, 2021, 103, .	0.5	2

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91	Choice behavior of the generalist pentatomid predator Podisus maculiventris when offered lepidopteran larvae infected with an entomopathogenic fungus. BioControl, 2022, 67, 201-211.	2.0	2
92	Tropical Sod Webworm (Lepidoptera: Crambidae): a Pest of Warm Season Turfgrasses. Journal of Integrated Pest Management, 2014, 5, 1-8.	2.0	1
93	Comparison of Bee Composition in Sunn Hemp and Other Cover Crops. Florida Entomologist, 2021, 103, .	0.5	0
94	Lawn Caterpillars. Edis, 2006, 2006, .	0.1	0
95	Diversity, composition, and freedom to choose drive the effects of St. Augustinegrass cultivar blends on an herbivorous insect. Itsrj, 2022, 14, 989-993.	0.3	0