

# John F Tooker

## List of Publications by Year in descending order

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Version: 2024-02-01

120  
papers

5,915  
citations

116194

36  
h-index

97045

71  
g-index

124  
all docs

124  
docs citations

124  
times ranked

6213  
citing authors

#	ARTICLE	IF	CITATIONS
1	A framework for evaluating ecosystem services provided by cover crops in agroecosystems. <i>Agricultural Systems</i> , 2014, 125, 12-22.	3.2	420
2	Herbivore exploits orally secreted bacteria to suppress plant defenses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15728-15733.	3.3	386
3	Large-Scale Deployment of Seed Treatments Has Driven Rapid Increase in Use of Neonicotinoid Insecticides and Preemptive Pest Management in U.S. Field Crops. <i>Environmental Science &amp; Technology</i> , 2015, 49, 5088-5097.	4.6	382
4	Bee nutrition and floral resource restoration. <i>Current Opinion in Insect Science</i> , 2015, 10, 133-141.	2.2	318
5	Macronutrient ratios in pollen shape bumble bee ( <i>Bombus impatiens</i> ) foraging strategies and floral preferences. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4035-42.	3.3	262
6	Genotypically diverse cultivar mixtures for insect pest management and increased crop yields. <i>Journal of Applied Ecology</i> , 2012, 49, 974-985.	1.9	206
7	Role of trichomes in defense against herbivores: comparison of herbivore response to woolly and hairless trichome mutants in tomato ( <i>Solanum lycopersicum</i> ). <i>Planta</i> , 2012, 236, 1053-1066.	1.6	200
8	Plants on early alert: glandular trichomes as sensors for insect herbivores. <i>New Phytologist</i> , 2009, 184, 644-656.	3.5	181
9	EDITOR'S CHOICE: Neonicotinoid insecticide travels through a soil food chain, disrupting biological control of non-target pests and decreasing soya bean yield. <i>Journal of Applied Ecology</i> , 2015, 52, 250-260.	1.9	149
10	Pollen Protein: Lipid Macronutrient Ratios May Guide Broad Patterns of Bee Species Floral Preferences. <i>Insects</i> , 2020, 11, 132.	1.0	128
11	Gall insects can avoid and alter indirect plant defenses. <i>New Phytologist</i> , 2008, 178, 657-671.	3.5	125
12	Seeds of Change: Corn Seed Mixtures for Resistance Management and Integrated Pest Management. <i>Journal of Economic Entomology</i> , 2011, 104, 343-352.	0.8	112
13	Phytohormone Dynamics Associated with Gall Insects, and their Potential Role in the Evolution of the Gall-Inducing Habit. <i>Journal of Chemical Ecology</i> , 2014, 40, 742-753.	0.9	108
14	Salivary Glucose Oxidase from Caterpillars Mediates the Induction of Rapid and Delayed-Induced Defenses in the Tomato Plant. <i>PLoS ONE</i> , 2012, 7, e36168.	1.1	107
15	Herbicide drift can affect plant and arthropod communities. <i>Agriculture, Ecosystems and Environment</i> , 2014, 185, 77-87.	2.5	104
16	Shared genes related to aggression, rather than chemical communication, are associated with reproductive dominance in paper wasps ( <i>Polistes metricus</i> ). <i>BMC Genomics</i> , 2014, 15, 75.	1.2	82
17	Influence of Plant Community Structure on Natural Enemies of Pine Needle Scale (Homoptera: Tj ETQq1 1 0.784314,rgBT /Overlock 10 0.7 80	0.7	80
18	Exposure of <i>Solidago altissima</i> plants to volatile emissions of an insect antagonist () Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td Sciences of the United States of America, 2013, 110, 199-204.	3.3	77

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19	Effects of the herbicide dicamba on nontarget plants and pollinator visitation. <i>Environmental Toxicology and Chemistry</i> , 2016, 35, 144-151.	2.2	73
20	Meta-analysis reveals that seed-applied neonicotinoids and pyrethroids have similar negative effects on abundance of arthropod natural enemies. <i>PeerJ</i> , 2016, 4, e2776.	0.9	70
21	Slug (Mollusca: Agriolimacidae, Arionidae) Ecology and Management in No-Till Field Crops, With an Emphasis on the mid-Atlantic Region. <i>Journal of Integrated Pest Management</i> , 2012, 3, C1-C9.	0.9	68
22	Floral Host Plants of Syrphidae and Tachinidae (Diptera) of Central Illinois. <i>Annals of the Entomological Society of America</i> , 2006, 99, 96-112.	1.3	67
23	Consistent pollen nutritional intake drives bumble bee ( <i>Bombus impatiens</i> ) colony growth and reproduction across different habitats. <i>Ecology and Evolution</i> , 2018, 8, 5765-5776.	0.8	63
24	Insect Eggs Can Enhance Wound Response in Plants: A Study System of Tomato <i>Solanum lycopersicum</i> L. and <i>Helicoverpa zea</i> Boddie. <i>PLoS ONE</i> , 2012, 7, e37420.	1.1	62
25	Conservation biological control in urban landscapes: Manipulating parasitoids of bagworm (Lepidoptera: Psychidae) with flowering forbs. <i>Biological Control</i> , 2005, 34, 99-107.	1.4	61
26	Maize Plants Recognize Herbivore-Associated Cues from Caterpillar Frass. <i>Journal of Chemical Ecology</i> , 2015, 41, 781-792.	0.9	61
27	Identification of an insect-produced olfactory cue that primes plant defenses. <i>Nature Communications</i> , 2017, 8, 337.	5.8	60
28	Feeding by a gall-inducing caterpillar species alters levels of indole-3-acetic and abscisic acid in <i>Solidago altissima</i> (Asteraceae) stems. <i>Arthropod-Plant Interactions</i> , 2011, 5, 115-124.	0.5	59
29	Flowering Plant Hosts of Adult Hymenopteran Parasitoids of Central Illinois. <i>Annals of the Entomological Society of America</i> , 2000, 93, 580-588.	1.3	56
30	One Gene Versus Two: A Regional Study on the Efficacy of Single Gene Versus Pyramided Resistance for Soybean Aphid Management. <i>Journal of Economic Entomology</i> , 2014, 107, 1680-1687.	0.8	52
31	Balancing Disturbance and Conservation in Agroecosystems to Improve Biological Control. <i>Annual Review of Entomology</i> , 2020, 65, 81-100.	5.7	52
32	Nonlinear partial differential equations and applications: Altered host plant volatiles are proxies for sex pheromones in the gall wasp <i>Antistrophus rufus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 15486-15491.	3.3	49
33	Neonicotinoid Seed Treatments: Limitations and Compatibility with Integrated Pest Management. <i>Agricultural and Environmental Letters</i> , 2017, 2, ael2017.08.0026.	0.8	49
34	Wild bees as winners and losers: Relative impacts of landscape composition, quality, and climate. <i>Global Change Biology</i> , 2021, 27, 1250-1265.	4.2	48
35	Tritrophic Interactions and Reproductive Fitness of the Prairie Perennial <i>Silphium laciniatum</i> Gillette (Asteraceae). <i>Environmental Entomology</i> , 2006, 35, 537-545.	0.7	46
36	Planting Green Effects on Corn and Soybean Production. <i>Agronomy Journal</i> , 2019, 111, 2314-2325.	0.9	42

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37	Is tillage beneficial or detrimental for insect and slug management? A meta-analysis. <i>Agriculture, Ecosystems and Environment</i> , 2020, 294, 106849.	2.5	41
38	The potential of genotypically diverse cultivar mixtures to moderate aphid populations in wheat ( <i>Triticum aestivum</i> L.). <i>Arthropod-Plant Interactions</i> , 2013, 7, 33-43.	0.5	40
39	Phytohormones in Fall Armyworm Saliva Modulate Defense Responses in Plants. <i>Journal of Chemical Ecology</i> , 2019, 45, 598-609.	0.9	40
40	Feeding by Hessian fly [ <i>Mayetiola destructor</i> (Say)] larvae does not induce plant indirect defences. <i>Ecological Entomology</i> , 2007, 32, 153-161.	1.1	39
41	Newer characters, same story: neonicotinoid insecticides disrupt food webs through direct and indirect effects. <i>Current Opinion in Insect Science</i> , 2021, 46, 50-56.	2.2	36
42	Plant volatiles are behavioral cues for adult females of the gall wasp <i>Antistrophus rufus</i> . <i>Chemoecology</i> , 2005, 15, 85-88.	0.6	35
43	The volatile emission of <i>Eurosta solidaginis</i> primes herbivore-induced volatile production in <i>Solidago altissima</i> and does not directly deter insect feeding. <i>BMC Plant Biology</i> , 2014, 14, 173.	1.6	35
44	Managing fertility with animal waste to promote arthropod pest suppression. <i>Biological Control</i> , 2019, 134, 130-140.	1.4	35
45	Chemical cues linked to risk: Cues from belowground natural enemies enhance plant defences and influence herbivore behaviour and performance. <i>Functional Ecology</i> , 2019, 33, 798-808.	1.7	35
46	A Gall-Inducing Caterpillar Species Increases Essential Fatty Acid Content of Its Host Plant Without Concomitant Increases in Phytohormone Levels. <i>Molecular Plant-Microbe Interactions</i> , 2009, 22, 551-559.	1.4	33
47	Feeding by Hessian Fly ( <i>Mayetiola destructor</i> [Say]) Larvae on Wheat Increases Levels of Fatty Acids and Indole-3-Acetic Acid but not Hormones Involved in Plant-Defense Signaling. <i>Journal of Plant Growth Regulation</i> , 2011, 30, 158-165.	2.8	31
48	Biology and Economics of Recommendations for Insecticide-Based Management of Soybean Aphid. <i>Plant Health Progress</i> , 2016, 17, 265-269.	0.8	31
49	Quantitative evolutionary patterns in bipartite networks: Vicariance, phylogenetic tracking or diffuse coevolution?. <i>Methods in Ecology and Evolution</i> , 2018, 9, 761-772.	2.2	31
50	Cytokinins Are Abundant and Widespread among Insect Species. <i>Plants</i> , 2020, 9, 208.	1.6	31
51	Developing ecologically based pest management programs for terrestrial molluscs in field and forage crops. <i>Journal of Pest Science</i> , 2017, 90, 825-838.	1.9	30
52	Nectar Sources of Day-Flying Lepidoptera of Central Illinois. <i>Annals of the Entomological Society of America</i> , 2002, 95, 84-96.	1.3	29
53	Gall insects and indirect plant defenses. <i>Plant Signaling and Behavior</i> , 2008, 3, 503-504.	1.2	29
54	Combining intercropping with semiochemical releases: optimization of alternative control of <i>Sitobion avenae</i> in wheat crops in China. <i>Entomologia Experimentalis Et Applicata</i> , 2011, 140, 189-195.	0.7	29

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55	Stereochemistry of Host Plant Monoterpenes as Mate Location Cues for the Gall Wasp <i>Antistrophus rufus</i> . <i>Journal of Chemical Ecology</i> , 2004, 30, 473-477.	0.9	28
56	Jasmonate in Lepidopteran Eggs and Neonates. <i>Journal of Chemical Ecology</i> , 2005, 31, 2753-2759.	0.9	26
57	Moving beyond resistance management toward an expanded role for seed mixtures in agriculture. <i>Agriculture, Ecosystems and Environment</i> , 2015, 208, 29-36.	2.5	26
58	In-Field Habitat Management to Optimize Pest Control of Novel Soil Communities in Agroecosystems. <i>Insects</i> , 2017, 8, 82.	1.0	26
59	Direct and Indirect Effects of the Synthetic-Auxin Herbicide Dicamba on Two Lepidopteran Species. <i>Environmental Entomology</i> , 2013, 42, 586-594.	0.7	24
60	The Evolution of Endophagy in Herbivorous Insects. <i>Frontiers in Plant Science</i> , 2020, 11, 581816.	1.7	24
61	Impact of prescribed burning on endophytic insect communities of prairie perennials (Asteraceae:). <i>Tj ETQq1 1 0.784314 rgBT /Overlock 1.2 22</i>	1.2	22
62	Trichomes as sensors. <i>Plant Signaling and Behavior</i> , 2010, 5, 73-75.	1.2	22
63	Handheld Lasers Allow Efficient Detection of Fluorescent Marked Organisms in the Field. <i>PLoS ONE</i> , 2015, 10, e0129175.	1.1	22
64	Variety mixtures of wheat influence aphid populations and attract an aphid predator. <i>Arthropod-Plant Interactions</i> , 2017, 11, 133-146.	0.5	22
65	E- $\beta$ -farnesene synergizes the influence of an insecticide to improve control of cabbage aphids in China. <i>Crop Protection</i> , 2012, 35, 91-96.	1.0	21
66	Current European corn borer, <i>Ostrinia nubilalis</i> , injury levels in the northeastern United States and the value of <i>Bt</i> field corn. <i>Pest Management Science</i> , 2014, 70, 1711-1719.	1.7	21
67	Inter-varietal interactions among plants in genotypically diverse mixtures tend to decrease herbivore performance. <i>Oecologia</i> , 2016, 182, 189-202.	0.9	21
68	Trophic Position of the Endophytic Beetle, <i>Mordellistena aethiops</i> Smith (Coleoptera:). <i>Tj ETQq0 0.0 rgBT /Overlock 0.7 20</i>	0.7	20
69	Bumble bees exhibit daily behavioral patterns in pollen foraging. <i>Arthropod-Plant Interactions</i> , 2014, 8, 273.	0.5	20
70	A high-diversity/IPM cropping system fosters beneficial arthropod populations, limits invertebrate pests, and produces competitive maize yields. <i>Agriculture, Ecosystems and Environment</i> , 2020, 292, 106812.	2.5	20
71	First Report of Western Bean Cutworm ( <i>Striacosta albicosta</i> ) in Pennsylvania. <i>Crop Management</i> , 2010, 9, 1-4.	0.3	19
72	Zucchini Yellow Mosaic Virus Infection Limits Establishment and Severity of Powdery Mildew in Wild Populations of <i>Cucurbita pepo</i> . <i>Frontiers in Plant Science</i> , 2018, 9, 792.	1.7	19

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73	Intellectual Property, Scientific Independence, and the Efficacy and Environmental Impacts of Genetically Engineered Crops. <i>Rural Sociology</i> , 2015, 80, 147-172.	1.1	18
74	Life history and habitat explain variation among insect pest populations subject to global change. <i>Ecosphere</i> , 2018, 9, e02274.	1.0	18
75	Jasmonate, Salicylate, and Benzoate in Insect Eggs. <i>Journal of Chemical Ecology</i> , 2007, 33, 331-343.	0.9	17
76	Costs of plant defense priming: exposure to volatile cues from a specialist herbivore increases short-term growth but reduces rhizome production in tall goldenrod ( <i>Solidago altissima</i> ). <i>BMC Plant Biology</i> , 2019, 19, 209.	1.6	17
77	Weather and regional crop composition variation drive spatial synchrony of lepidopteran agricultural pests. <i>Ecological Entomology</i> , 2020, 45, 573-582.	1.1	17
78	Insecticide-contaminated honeydew: risks for beneficial insects. <i>Biological Reviews</i> , 2022, 97, 664-678.	4.7	17
79	A Maize Inbred Exhibits Resistance Against Western Corn Rootworm, <i>Diabrotica virgifera virgifera</i> . <i>Journal of Chemical Ecology</i> , 2017, 43, 1109-1123.	0.9	16
80	Corn Earworm (Lepidoptera: Noctuidae) in Northeastern Field Corn: Infestation Levels and the Value of Transgenic Hybrids. <i>Journal of Economic Entomology</i> , 2013, 106, 1250-1259.	0.8	15
81	A network approach reveals parasitoid wasps to be generalized nectar foragers. <i>Arthropod-Plant Interactions</i> , 2019, 13, 239-251.	0.5	15
82	Beyond the Headlines: The Influence of Insurance Pest Management on an Unseen, Silent Entomological Majority. <i>Frontiers in Sustainable Food Systems</i> , 2020, 4, .	1.8	15
83	Soybean aphid biotype 1 genome: Insights into the invasive biology and adaptive evolution of a major agricultural pest. <i>Insect Biochemistry and Molecular Biology</i> , 2020, 120, 103334.	1.2	15
84	A petiole-galling insect herbivore decelerates leaf lamina litter decomposition rates. <i>Functional Ecology</i> , 2012, 26, 628-636.	1.7	14
85	Landscape Factors Influencing Stink Bug Injury in Mid-Atlantic Tomato Fields. <i>Journal of Economic Entomology</i> , 2017, 110, tow252.	0.8	14
86	The volatile emission of a specialist herbivore alters patterns of plant defence, growth and flower production in a field population of goldenrod. <i>Functional Ecology</i> , 2017, 31, 1062-1070.	1.7	13
87	Are bacterial symbionts associated with gall induction in insects?. <i>Arthropod-Plant Interactions</i> , 2021, 15, 1-12.	0.5	12
88	Early-season plant cover supports more effective pest control than insecticide applications. <i>Ecological Applications</i> , 2022, 32, e2598.	1.8	12
89	Floral Host Plants of Adult Beetles in Central Illinois: An Historical Perspective. <i>Annals of the Entomological Society of America</i> , 2012, 105, 287-297.	1.3	11
90	Cultivar mixtures of soybeans have inconsistent effects on herbivore and natural-enemy populations. <i>Agriculture, Ecosystems and Environment</i> , 2020, 292, 106835.	2.5	11

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91	Preventive insecticide use affects arthropod decomposers and decomposition in field crops. <i>Applied Soil Ecology</i> , 2021, 157, 103757.	2.1	11
92	Small-Grain Cover Crops Have Limited Effect on Neonicotinoid Contamination from Seed Coatings. <i>Environmental Science &amp; Technology</i> , 2021, 55, 4679-4687.	4.6	11
93	Jasmonate in Lepidopteran Larvae. <i>Journal of Chemical Ecology</i> , 2006, 32, 2321-2326.	0.9	10
94	Chemical Ecology and Sociality in Aphids: Opportunities and Directions. <i>Journal of Chemical Ecology</i> , 2018, 44, 770-784.	0.9	10
95	Endophytic insect communities of two prairie perennials (Asteraceae: <i>Silphium</i> spp.). <i>Biodiversity and Conservation</i> , 2004, 13, 2551-2566.	1.2	9
96	Modeling the decision process for barley yellow dwarf management. <i>Computers and Electronics in Agriculture</i> , 2016, 127, 775-786.	3.7	9
97	Assessing surface and subsurface transport of neonicotinoid insecticides from no-till crop fields. <i>Journal of Environmental Quality</i> , 2021, 50, 476-484.	1.0	9
98	Parasitic Plants in Agriculture: Chemical Ecology of Germination and Host-Plant Location as Targets for Sustainable Control: A Review. <i>Sustainable Agriculture Reviews</i> , 2009, , 123-136.	0.6	9
99	Potential Impacts of Translocation of Neonicotinoid Insecticides to Cotton ( <i>Gossypium hirsutum</i> ) Tj ETQq1 1 0.784314 rgBT /Overloc 159-168.	0.7	8
100	A long-term dataset on wild bee abundance in Mid-Atlantic United States. <i>Scientific Data</i> , 2020, 7, 240.	2.4	8
101	Top-down network analysis characterizes hidden termite-termite interactions. <i>Ecology and Evolution</i> , 2016, 6, 6178-6188.	0.8	7
102	Trade-offs between defenses against herbivores in goldenrod ( <i>Solidago altissima</i> ). <i>Arthropod-Plant Interactions</i> , 2019, 13, 279-287.	0.5	7
103	Fertilizing Corn With Manure Decreases Caterpillar Performance but Increases Slug Damage. <i>Environmental Entomology</i> , 2020, 49, 141-150.	0.7	6
104	Toxicity of clothianidin to common Eastern North American fireflies. <i>PeerJ</i> , 2021, 9, e12495.	0.9	6
105	Evaluation of biorational insecticides and DNA barcoding as tools to improve insect pest management in lablab bean ( <i>Lablab purpureus</i> ) in Bangladesh. <i>Journal of Asia-Pacific Entomology</i> , 2018, 21, 1326-1336.	0.4	5
106	Ground Predator Activity-Density and Predation Rates Are Weakly Supported by Dry-Stack Cow Manure and Wheat Cover Crops in No-Till Maize. <i>Environmental Entomology</i> , 2021, 50, 46-57.	0.7	5
107	Wheat intraspecific diversity suppressed diseases with subdued yield, economic return and arthropod predation services. <i>Agriculture, Ecosystems and Environment</i> , 2021, 315, 107438.	2.5	5
108	Life History, Biology, and Distribution of <i>Pterostichus melanarius</i> (Coleoptera: Carabidae) in North America. <i>Environmental Entomology</i> , 2021, , .	0.7	5

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109	The Influence of Marking Methods on Mobility, Survivorship, and Field Recovery of <i>Halyomorpha halys</i> (Hemiptera: Pentatomidae) Adults and Nymphs. <i>Environmental Entomology</i> , 2020, 49, 1026-1031.	0.7	4
110	Parasitoids, Nematodes, and Protists in Populations of Striped Cucumber Beetle (Coleoptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	0.7	4
111	Consequences of Habitat Fragmentation for the Prairie-Endemic Weevil <i>Haplorhynchites aeneus</i> . <i>Environmental Entomology</i> , 2011, 40, 1388-1396.	0.7	3
112	Are polycultures for silage pragmatic medleys or gallimaufries?. <i>Agronomy Journal</i> , 2021, 113, 1205-1221.	0.9	2
113	Giant polyploid epidermal cells and male pheromone production in the tephritid fruit fly <i>Eurosta solidaginis</i> (Diptera: Tephritidae). <i>Journal of Insect Physiology</i> , 2021, 130, 104210.	0.9	2
114	Corn pith weevil, <i>Geraeus penicillus</i> (Coleoptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (<scp>C	0.8	1
115	Sensory co-evolution: The sex attractant of a gall-making fly primes plant defences, but female flies recognize resulting changes in host-plant quality. <i>Journal of Ecology</i> , 2021, 109, 99-108.	1.9	1
116	Preventative pest management in field crops influences the biological control potential of epigeal arthropods and soil-borne entomopathogenic fungi. <i>Field Crops Research</i> , 2021, 272, 108265.	2.3	1
117	Planted-green cover crops in maize/soybean rotations confer stronger bottom-up than top-down control of slugs. <i>Agriculture, Ecosystems and Environment</i> , 2022, 334, 107980.	2.5	1
118	Plant-Provided Food for Carnivorous Insects: A Protective Mutualism and its Applications F. L. Wäckers, P. C. J. van Rijn, J. Bruin . 2005. <i>Plant-Provided Food for Carnivorous Insects: A Protective Mutualism and its Applications</i> . Cambridge University Press.xii+. 356 17.5 Å— 25 cm, hardcover, US\$130.00. ISBN: 0-521-81941-5.. <i>Ecoscience</i> , 2006, 13, 428-429.	0.6	0
119	Neotropical Insect Galls. Edited by Geraldo Wilson Fernandes and Jean Carlos Santos. New York: Springer. \$189.00. ix + 550 p.; ill.; no index. ISBN: 978-94-017-8782-6 (hc); 978-94-017-8783-3 (eb). 2014.. <i>Quarterly Review of Biology</i> , 2015, 90, 210-211.	0.0	0
120	Silent Sparks: The Wondrous World of Fireflies Sara Lewis. <i>American Entomologist</i> , 2017, 63, 133-134.	0.1	0