

Ian Kaplan

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

4,073
citations

186209

28
h-index

189801

50
g-index

53
all docs

53
docs citations

53
times ranked

4566
citing authors

#	ARTICLE	IF	CITATIONS
1	Biosynthesis, function and metabolic engineering of plant volatile organic compounds. <i>New Phytologist</i> , 2013, 198, 16-32.	3.5	1,109
2	Interspecific interactions in phytophagous insects revisited: a quantitative assessment of competition theory. <i>Ecology Letters</i> , 2007, 10, 977-994.	3.0	493
3	CONSTITUTIVE AND INDUCED DEFENSES TO HERBIVORY IN ABOVE- AND BELOWGROUND PLANT TISSUES. <i>Ecology</i> , 2008, 89, 392-406.	1.5	238
4	Steering Soil Microbiomes to Suppress Aboveground Insect Pests. <i>Trends in Plant Science</i> , 2017, 22, 770-778.	4.3	193
5	Attracting carnivorous arthropods with plant volatiles: The future of biocontrol or playing with fire?. <i>Biological Control</i> , 2012, 60, 77-89.	1.4	187
6	Physiological integration of roots and shoots in plant defense strategies links above- and belowground herbivory. <i>Ecology Letters</i> , 2008, 11, 841-851.	3.0	168
7	Emerging strategies for precision microbiome management in diverse agroecosystems. <i>Nature Plants</i> , 2021, 7, 256-267.	4.7	137
8	Field responses of predaceous arthropods to methyl salicylate: A meta-analysis and case study in cranberries. <i>Biological Control</i> , 2011, 59, 294-303.	1.4	126
9	Eco-evolutionary factors drive induced plant volatiles: a meta-analysis. <i>New Phytologist</i> , 2016, 210, 284-294.	3.5	107
10	Plant resistance attenuates the consumptive and non-consumptive impacts of predators on prey. <i>Oikos</i> , 2010, 119, 1105-1113.	1.2	69
11	Plant-mediated interactions in herbivorous insects: mechanisms, symmetry, and challenging the paradigms of competition past. , 2007, , 19-50.		68
12	Conditioning the soil microbiome through plant-soil feedbacks suppresses an aboveground insect pest. <i>New Phytologist</i> , 2020, 226, 595-608.	3.5	67
13	Cover crops increase foraging activity of omnivorous predators in seed patches and facilitate weed biological control. <i>Agriculture, Ecosystems and Environment</i> , 2016, 231, 264-270.	2.5	62
14	Field evidence for indirect interactions between foliar-feeding insect and root-feeding nematode communities on <i>Nicotiana tabacum</i> . <i>Ecological Entomology</i> , 2009, 34, 262-270.	1.1	58
15	Spatiotemporal patterns of induced resistance and susceptibility linking diverse plant parasites. <i>Oecologia</i> , 2013, 173, 1379-1386.	0.9	55
16	Indirect plant-parasitoid interactions mediated by changes in herbivore physiology. <i>Current Opinion in Insect Science</i> , 2016, 14, 112-119.	2.2	53
17	Toward a mechanistic understanding of competition in vascular-feeding herbivores: an empirical test of the sink competition hypothesis. <i>Oecologia</i> , 2011, 166, 627-636.	0.9	51
18	Wild Bee Pollen Diets Reveal Patterns of Seasonal Foraging Resources for Honey Bees. <i>Frontiers in Ecology and Evolution</i> , 2018, 6, .	1.1	49

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19	Trophic Complexity and the Adaptive Value of Damage-Induced Plant Volatiles. <i>PLoS Biology</i> , 2012, 10, e1001437.	2.6	46
20	Leafhopper-induced plant resistance enhances predation risk in a phytophagous beetle. <i>Oecologia</i> , 2007, 152, 665-675.	0.9	43
21	Semiochemical lures reduce emigration and enhance pest control services in open-field predator augmentation. <i>Biological Control</i> , 2014, 71, 70-77.	1.4	43
22	Tomato PEPR1 ORTHOLOG RECEPTOR-LIKE KINASE1 Regulates Responses to Systemin, Necrotrophic Fungi, and Insect Herbivory. <i>Plant Cell</i> , 2018, 30, 2214-2229.	3.1	43
23	Domestication of tomato has reduced the attraction of herbivore natural enemies to pest-damaged plants. <i>Agricultural and Forest Entomology</i> , 2018, 20, 390-401.	0.7	42
24	Over what distance are plant volatiles bioactive? Estimating the spatial dimensions of attraction in an arthropod assemblage. <i>Entomologia Experimentalis Et Applicata</i> , 2012, 145, 115-123.	0.7	41
25	Plant Defenses and Predation Risk Differentially Shape Patterns of Consumption, Growth, and Digestive Efficiency in a Guild of Leaf-Chewing Insects. <i>PLoS ONE</i> , 2014, 9, e93714.	1.1	40
26	Plant trichomes indirectly enhance tritrophic interactions involving a generalist predator, the red imported fire ant. <i>Biological Control</i> , 2006, 36, 375-384.	1.4	39
27	Testing for Phytochemical Synergism: Arthropod Community Responses to Induced Plant Volatile Blends Across Crops. <i>Journal of Chemical Ecology</i> , 2012, 38, 1264-1275.	0.9	34
28	IPM reduces insecticide applications by 95% while maintaining or enhancing crop yields through wild pollinator conservation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	34
29	A Promiscuous CYP706A3 Reduces Terpene Volatile Emission from Arabidopsis Flowers, Affecting Florivores and the Floral Microbiome. <i>Plant Cell</i> , 2019, 31, 2947-2972.	3.1	33
30	Quantifying Pesticide Exposure Risk for Monarch Caterpillars on Milkweeds Bordering Agricultural Land. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, .	1.1	31
31	Domesticated tomatoes are more vulnerable to negative plant-soil feedbacks than their wild relatives. <i>Journal of Ecology</i> , 2019, 107, 1753-1766.	1.9	30
32	Carnivore Attractant or Plant Elicitor? Multifunctional Roles of Methyl Salicylate Lures in Tomato Defense. <i>Journal of Chemical Ecology</i> , 2017, 43, 573-585.	0.9	26
33	Synergism between local and landscape-level pesticides reduces wild bee floral visitation in pollinator-dependent crops. <i>Journal of Applied Ecology</i> , 2021, 58, 1187-1198.	1.9	20
34	Effects of Plant Vascular Architecture on Aboveground and Belowground-Induced Responses to Foliar and Root Herbivores on <i>Nicotiana tabacum</i> . <i>Journal of Chemical Ecology</i> , 2008, 34, 1349-1359.	0.9	19
35	Tritrophic interactions reinforce a negative preference-performance relationship in the tobacco hornworm (<i>Manduca sexta</i>). <i>Ecological Entomology</i> , 2020, 45, 783-794.	1.1	19
36	What happens when crops are turned on? Simulating constitutive volatiles for tritrophic pest suppression across an agricultural landscape. <i>Pest Management Science</i> , 2015, 71, 139-150.	1.7	18

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37	Application and Theory of Plantâ€“Soil Feedbacks on Aboveground Herbivores. <i>Ecological Studies</i> , 2018, , 319-343.	0.4	18
38	Do plant defenses enhance or diminish prey suppression by omnivorous Heteroptera?. <i>Biological Control</i> , 2011, 59, 53-60.	1.4	17
39	Distantly related crops are not better rotation partners for tomato. <i>Journal of Applied Ecology</i> , 2018, 55, 2506-2516.	1.9	17
40	Phylogenetic farming: Can evolutionary history predict crop rotation via the soil microbiome?. <i>Evolutionary Applications</i> , 2020, 13, 1984-1999.	1.5	17
41	Toxin or medication? Immunotherapeutic effects of nicotine on a specialist caterpillar. <i>Functional Ecology</i> , 2021, 35, 614-626.	1.7	15
42	Phytohormone-mediated plant resistance and predation risk act independently on the population growth and wing formation of potato aphids, <i>Macrosiphum euphorbiae</i> . <i>Arthropod-Plant Interactions</i> , 2012, 6, 181-186.	0.5	13
43	Are exotic herbivores better competitors? A metaâ€“analysis. <i>Ecology</i> , 2014, 95, 30-36.	1.5	13
44	Foliar Aphid Herbivory Alters the Tomato Rhizosphere Microbiome, but Initial Soil Community Determines the Legacy Effects. <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, .	1.8	13
45	Employing Immunomarkers to Track Dispersal and Trophic Relationships of a Piercing-Sucking Predator, <l>Podisus maculiventris</l> (Hemiptera: Pentatomidae). <i>Environmental Entomology</i> , 2012, 41, 1527-1533.	0.7	12
46	Supplemental forage ameliorates the negative impact of insecticides on bumblebees in a pollinator-dependent crop. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20210785.	1.2	12
47	Do pollinators prefer pesticideâ€“free plants? An experimental test with monarchs and milkweeds. <i>Journal of Applied Ecology</i> , 2020, 57, 2019-2030.	1.9	10
48	Jasmonate-induced plant defenses and prey availability impact the preference and performance of an omnivorous stink bug, <i>Podisus maculiventris</i> . <i>Arthropod-Plant Interactions</i> , 2015, 9, 141-148.	0.5	8
49	Development of Chitosan Films from Edible Crickets and Their Performance as a Bio-Based Food Packaging Material. <i>Polysaccharides</i> , 2021, 2, 744-758.	2.1	8
50	A cry for help or sexual perfumes? An alternative hypothesis for wasp attraction to the scent of caterpillarâ€“wounded plants. <i>Plant, Cell and Environment</i> , 2017, 40, 327-329.	2.8	5
51	Constitutive exposure to the volatile methyl salicylate reduces perâ€“capita foraging efficiency of a generalist predator to learned prey associations. <i>Entomologia Experimentalis Et Applicata</i> , 2018, 166, 661-672.	0.7	4
52	Editorial overview: Ecology: Beyond a taxonomically driven approach for describing pattern and process in complex insect communities. <i>Current Opinion in Insect Science</i> , 2014, 2, v-vii.	2.2	0
53	The threat of parasitism impairs immune function in host caterpillars. <i>Ecological Research</i> , 0, . .	0.7	0