

Andre Kessler

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92
papers

7,523
citations

37
h-index

86
g-index

100
ext. papers

8,670
ext. citations

7.1
avg, IF

6.41
L-index

#	Paper	IF	Citations
92	Defensive function of herbivore-induced plant volatile emissions in nature. <i>Science</i> , 2001 , 291, 2141-4	33.3	1570
91	Plant responses to insect herbivory: the emerging molecular analysis. <i>Annual Review of Plant Biology</i> , 2002 , 53, 299-328	30.7	1111
90	Silencing the jasmonate cascade: induced plant defenses and insect populations. <i>Science</i> , 2004 , 305, 665-8	33.3	432
89	Priming of plant defense responses in nature by airborne signaling between <i>Artemisia tridentata</i> and <i>Nicotiana attenuata</i> . <i>Oecologia</i> , 2006 , 148, 280-92	2.9	288
88	Shared signals -'alarm calls' from plants increase apparency to herbivores and their enemies in nature. <i>Ecology Letters</i> , 2008 , 11, 24-34	10	208
87	Attracting friends to feast on foes: engineering terpene emission to make crop plants more attractive to herbivore enemies. <i>Current Opinion in Biotechnology</i> , 2003 , 14, 169-76	11.4	207
86	Constitutive and induced defenses to herbivory in above- and belowground plant tissues. <i>Ecology</i> , 2008 , 89, 392-406	4.6	201
85	The multiple faces of indirect defences and their agents of natural selection. <i>Functional Ecology</i> , 2011 , 25, 348-357	5.6	194
84	Ecophysiological comparison of direct and indirect defenses in <i>Nicotiana attenuata</i> . <i>Oecologia</i> , 2000 , 124, 408-417	2.9	194
83	Herbivore-induced plant vaccination. Part I. The orchestration of plant defenses in nature and their fitness consequences in the wild tobacco <i>Nicotiana attenuata</i> . <i>Plant Journal</i> , 2004 , 38, 639-49	6.9	174
82	Testing the potential for conflicting selection on floral chemical traits by pollinators and herbivores: predictions and case study. <i>Functional Ecology</i> , 2009 , 23, 901-912	5.6	171
81	Physiological integration of roots and shoots in plant defense strategies links above- and belowground herbivory. <i>Ecology Letters</i> , 2008 , 11, 841-51	10	156
80	Merging molecular and ecological approaches in plant-insect interactions. <i>Current Opinion in Plant Biology</i> , 2001 , 4, 351-8	9.9	153
79	Volatile signaling in plant-plant-herbivore interactions: what is real?. <i>Current Opinion in Plant Biology</i> , 2002 , 5, 351-4	9.9	151
78	Herbivory-mediated pollinator limitation: negative impacts of induced volatiles on plant-pollinator interactions. <i>Ecology</i> , 2011 , 92, 1769-80	4.6	127
77	Plant Secondary Metabolite Diversity and Species Interactions. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2018 , 49, 115-138	13.5	116
76	Specificity and complexity: the impact of herbivore-induced plant responses on arthropod community structure. <i>Current Opinion in Plant Biology</i> , 2007 , 10, 409-14	9.9	116

75	Pollinators exert natural selection on flower size and floral display in <i>Penstemon digitalis</i> . <i>New Phytologist</i> , 2010 , 188, 393-402	9.8	114
74	Phenotypic selection to increase floral scent emission, but not flower size or colour in bee-pollinated <i>Penstemon digitalis</i> . <i>New Phytologist</i> , 2012 , 195, 667-675	9.8	113
73	ECOLOGICAL COSTS AND BENEFITS CORRELATED WITH TRYPSIN PROTEASE INHIBITOR PRODUCTION IN <i>NICOTIANA ATTENUATA</i> . <i>Ecology</i> , 2003 , 84, 79-90	4.6	104
72	Evolutionary trade-offs in plants mediate the strength of trophic cascades. <i>Science</i> , 2010 , 327, 1642-4	33.3	101
71	Herbivore exclusion drives the evolution of plant competitiveness via increased allelopathy. <i>New Phytologist</i> , 2013 , 198, 916-924	9.8	64
70	MANDUCA QUINQUEMACULATA'S OPTIMIZATION OF INTRA-PLANT OVIPOSITION TO PREDATION, FOOD QUALITY, AND THERMAL CONSTRAINTS. <i>Ecology</i> , 2002 , 83, 2346-2354	4.6	63
69	The information landscape of plant constitutive and induced secondary metabolite production. <i>Current Opinion in Insect Science</i> , 2015 , 8, 47-53	5.1	60
68	Keystone Herbivores and the Evolution of Plant Defenses. <i>Trends in Plant Science</i> , 2016 , 21, 477-485	13.1	59
67	The raison d'être of chemical ecology. <i>Ecology</i> , 2015 , 96, 617-30	4.6	58
66	Herbivore-specific elicitation of photosynthesis by mirid bug salivary secretions in the wild tobacco <i>Nicotiana attenuata</i> . <i>New Phytologist</i> , 2011 , 191, 528-535	9.8	56
65	The enemy as ally: herbivore-induced increase in crop yield 2010 , 20, 1787-93		53
64	Covariation and phenotypic integration in chemical communication displays: biosynthetic constraints and eco-evolutionary implications. <i>New Phytologist</i> , 2018 , 220, 739-749	9.8	50
63	Plant chemistry underlies herbivore-mediated inbreeding depression in nature. <i>Ecology Letters</i> , 2013 , 16, 252-60	10	49
62	A test of genotypic variation in specificity of herbivore-induced responses in <i>Solidago altissima</i> L. (Asteraceae). <i>Oecologia</i> , 2013 , 173, 1387-96	2.9	45
61	<i>Solanum nigrum</i> : a model ecological expression system and its tools. <i>Molecular Ecology</i> , 2004 , 13, 981-955.7		45
60	Insect Herbivory Selects for Volatile-Mediated Plant-Plant Communication. <i>Current Biology</i> , 2019 , 29, 3128-3133.e3	6.3	44
59	Fine-root system development and susceptibility to pathogen colonization. <i>Planta</i> , 2014 , 239, 325-40	4.7	44
58	Plant mating system transitions drive the macroevolution of defense strategies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 3973-8	11.5	44

57	Phenolic root exudate and tissue compounds vary widely among temperate forest tree species and have contrasting effects on soil microbial respiration. <i>New Phytologist</i> , 2018 , 218, 530-541	9.8	42
56	Differential and Synergistic Functionality of Acylsugars in Suppressing Oviposition by Insect Herbivores. <i>PLoS ONE</i> , 2016 , 11, e0153345	3.7	42
55	Exploring plant defense theory in tall goldenrod, <i>Solidago altissima</i> . <i>New Phytologist</i> , 2014 , 202, 1357-1370	3.9	36
54	Herbivore damage-induced production and specific anti-digestive function of serine and cysteine protease inhibitors in tall goldenrod, <i>Solidago altissima</i> L. (Asteraceae). <i>Planta</i> , 2013 , 237, 1287-96	4.7	34
53	Noisy Communication via Airborne Infochemicals. <i>BioScience</i> , 2015 , 65, 667-677	5.7	32
52	Morphology and foraging behaviour of Siberian <i>Phylloscopus</i> warblers. <i>Journal of Avian Biology</i> , 2001 , 32, 127-138	1.9	31
51	Spatiotemporal Floral Scent Variation of <i>Penstemon digitalis</i> . <i>Journal of Chemical Ecology</i> , 2015 , 41, 641-650	5.0	28
50	Herbivore pressure on goldenrod (<i>Solidago altissima</i> L., Asteraceae): its effects on herbivore resistance and vegetative reproduction. <i>Journal of Ecology</i> , 2012 , 100, 795-801	6	28
49	Plant communication in a widespread goldenrod: keeping herbivores on the move. <i>Functional Ecology</i> , 2017 , 31, 1049-1061	5.6	27
48	Quantitative trait loci regulating the fatty acid profile of acylsugars in tomato. <i>Molecular Breeding</i> , 2014 , 34, 1201-1213	3.4	23
47	Pollen defenses negatively impact foraging and fitness in a generalist bee (<i>Bombus impatiens</i> : Apidae). <i>Scientific Reports</i> , 2020 , 10, 3112	4.9	22
46	Soil organic matter attenuates the efficacy of flavonoid-based plant-microbe communication. <i>Science Advances</i> , 2020 , 6, eaax8254	14.3	22
45	Herbivore release drives parallel patterns of evolutionary divergence in invasive plant phenotypes. <i>Journal of Ecology</i> , 2016 , 104, 876-886	6	22
44	Informed herbivore movement and interplant communication determine the effects of induced resistance in an individual-based model. <i>Journal of Animal Ecology</i> , 2015 , 84, 1273-85	4.7	20
43	Relaxation of herbivore-mediated selection drives the evolution of genetic covariances between plant competitive and defense traits. <i>Evolution; International Journal of Organic Evolution</i> , 2017 , 71, 1700-1709	3.8	19
42	Natural selection on floral volatile production in <i>Penstemon digitalis</i> : highlighting the role of linalool. <i>Plant Signaling and Behavior</i> , 2013 , 8, e22704	2.5	19
41	Combination of Acylglucose QTL reveals additive and epistatic genetic interactions and impacts insect oviposition and virus infection. <i>Molecular Breeding</i> , 2018 , 38, 1	3.4	19
40	Shifts in plant-microbe interactions over community succession and their effects on plant resistance to herbivores. <i>New Phytologist</i> , 2020 , 226, 1144-1157	9.8	18

39	The effect of polychlorinated biphenyls on the song of two passerine species. <i>PLoS ONE</i> , 2013 , 8, e73471	3.7	18
38	Effects of plant vascular architecture on aboveground-belowground-induced responses to foliar and root herbivores on <i>Nicotiana tabacum</i> . <i>Journal of Chemical Ecology</i> , 2008 , 34, 1349-59	2.7	18
37	Overcompensating plants: their expression of resistance traits and effects on herbivore preference and performance. <i>Entomologia Experimentalis Et Applicata</i> , 2012 , 143, 245-253	2.1	17
36	Simultaneous analysis of tissue- and genotype-specific variation in <i>Solidago altissima</i> (Asteraceae) rhizome terpenoids, and the polyacetylene dehydromatricaria ester. <i>Chemoecology</i> , 2010 , 20, 255-264	2	17
35	Dietary plant phenolic improves survival of bacterial infection in <i>Manduca sexta</i> caterpillars. <i>Entomologia Experimentalis Et Applicata</i> , 2013 , 146, 321-331	2.1	16
34	Functional reduction in pollination through herbivore-induced pollinator limitation and its potential in mutualist communities. <i>Nature Communications</i> , 2017 , 8, 2031	17.4	16
33	Plant mating systems affect adaptive plasticity in response to herbivory. <i>Plant Journal</i> , 2014 , 78, 481-90	6.9	15
32	Predictability of Biotic Stress Structures Plant Defence Evolution. <i>Trends in Ecology and Evolution</i> , 2021 , 36, 444-456	10.9	14
31	The ecological consequences of herbivore-induced plant responses on plant-pollinator interactions. <i>Emerging Topics in Life Sciences</i> , 2020 , 4, 33-43	3.5	13
30	Modification of plant-induced responses by an insect ecosystem engineer influences the colonization behaviour of subsequent shelter-users. <i>Journal of Ecology</i> , 2016 , 104, 1096-1105	6	13
29	More Than Push and Pull: Plant-Soil Feedbacks of Maize Companion Cropping Increase Chemical Plant Defenses Against Herbivores. <i>Frontiers in Ecology and Evolution</i> , 2019 , 7,	3.7	11
28	Combination of QTL affecting acylsugar chemistry reveals additive and epistatic genetic interactions to increase acylsugar profile diversity. <i>Molecular Breeding</i> , 2017 , 37, 1	3.4	10
27	Plant defences limit herbivore population growth by changing predator-prey interactions. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017 , 284,	4.4	9
26	<i>Lobelia siphilitica</i> plants that escape herbivory in time also have reduced latex production. <i>PLoS ONE</i> , 2012 , 7, e37745	3.7	9
25	Plant Volatile Signalling: Multitrophic Interactions in the Headspace 2010 , 95-122		9
24	Eco-evolutionary processes affecting plant-herbivore interactions during early community succession. <i>Oecologia</i> , 2018 , 187, 547-559	2.9	8
23	Plant-Induced Responses and Herbivore Population Dynamics 2012 , 89-112		8
22	A specialist herbivore uses chemical camouflage to overcome the defenses of an ant-plant mutualism. <i>PLoS ONE</i> , 2014 , 9, e102604	3.7	7

21	New synthesis: plant volatiles as functional cues in intercropping systems. <i>Journal of Chemical Ecology</i> , 2012 , 38, 1341	2.7	7
20	Soil Microbiomes From Fallow Fields Have Species-Specific Effects on Crop Growth and Pest Resistance. <i>Frontiers in Plant Science</i> , 2020 , 11, 1171	6.2	7
19	Plant-insect interactions in the era of consolidation in biological sciences 2006 , 19-37		6
18	Context-dependent induction of allelopathy in plants under competition. <i>Oikos</i> , 2019 , 128, 1492-1502	4	5
17	Scented nectar and the challenge of measuring honest signals in pollination. <i>Journal of Ecology</i> , 2020 , 108, 2132-2144	6	5
16	Interaction diversity explains the maintenance of phytochemical diversity. <i>Ecology Letters</i> , 2021 , 24, 1205-1214	5.6	5
15	Geographic isolation, pollination syndromes, and pollinator generalization in Himalayan <i>Roscoea</i> spp. (Zingiberaceae). <i>Ecosphere</i> , 2019 , 10, e02943	3.1	5
14	Attack and aggregation of a major squash pest: Parsing the role of plant chemistry and beetle pheromones across spatial scales. <i>Journal of Applied Ecology</i> , 2020 , 57, 1442-1451	5.8	4
13	Inducible plant defences and the environmental context. <i>Functional Ecology</i> , 2016 , 30, 1738-1739	5.6	4
12	High levels of abiotic noise in volatile organic compounds released by a desert perennial: implications for the evolution and ecology of airborne chemical communication. <i>Oecologia</i> , 2018 , 188, 367-379	2.9	4
11	The scent of danger: Volatile-mediated information transfer and defence priming in plants. <i>Biochemist</i> , 2014 , 36, 26-31	0.5	4
10	Population-wide shifts in herbivore resistance strategies over succession. <i>Ecology</i> , 2020 , 101, e03157	4.6	4
9	Arsenic Bioaccumulation by <i>Eruca sativa</i> Is Unaffected by Intercropping or Plant Density. <i>Water, Air, and Soil Pollution</i> , 2017 , 228, 1	2.6	2
8	Plant Defense: Warding Off Attack by Pathogens, Herbivores, and Parasitic Plants. By Dale R. Walters. Hoboken (New Jersey): Wiley-Blackwell. \$89.95 (paper). xi + 236 p.; ill.; index. ISBN: 978-1-4051-7589-0. 2011.. <i>Quarterly Review of Biology</i> , 2011 , 86, 356-357	5.4	2
7	4. Merging microbial and plant profiling to understand the impact of human-generated extreme environments on natural and agricultural systems 2019 , 57-92		2
6	Plant Defences against Herbivore Attack1-11		2
5	Pollinator-mediated natural selection in <i>Penstemon digitalis</i> . <i>Plant Signaling and Behavior</i> , 2010 , 5, 1688-99	2.9	1
4	Colony-level chemical profiles do not provide reliable information about colony size in the honey bee. <i>Ecological Entomology</i> , 2020 , 45, 679-687	2.1	0

- 3 Human-Mediated Land Use Change Drives Intraspecific Plant Trait Variation. *Frontiers in Plant Science*, **2020**, 11, 592881 6.2 0
- 2 The geographic mosaic of plant chemistry and its effects on community and population genetic diversity. *New Phytologist*, **2016**, 212, 8-10 9.8
- 1 Plant growth and defense traits in Sorghum bicolor response to Chilo partellus in the tropics. *Journal of Pest Science*, 1 5.5