

# Andre Kessler

## List of Publications by Year in descending order

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Version: 2024-02-01

96  
papers

9,501  
citations

76326

40  
h-index

48315

88  
g-index

100  
all docs

100  
docs citations

100  
times ranked

7312  
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrating plant-to-plant communication and rhizosphere microbial dynamics: ecological and evolutionary implications and a call for experimental rigor. <i>ISME Journal</i> , 2022, 16, 5-9.	9.8	8
2	Interaction diversity explains the maintenance of phytochemical diversity. <i>Ecology Letters</i> , 2021, 24, 1205-1214.	6.4	42
3	Predictability of Biotic Stress Structures Plant Defence Evolution. <i>Trends in Ecology and Evolution</i> , 2021, 36, 444-456.	8.7	48
4	Population-wide shifts in herbivore resistance strategies over succession. <i>Ecology</i> , 2020, 101, e03157.	3.2	8
5	Soil Microbiomes From Fallow Fields Have Species-Specific Effects on Crop Growth and Pest Resistance. <i>Frontiers in Plant Science</i> , 2020, 11, 1171.	3.6	16
6	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.	4.0	8
7	Pollen defenses negatively impact foraging and fitness in a generalist bee ( <i>Bombus impatiens</i> : Apidae). <i>Scientific Reports</i> , 2020, 10, 3112.	3.3	39
8	Soil organic matter attenuates the efficacy of flavonoid-based plant-microbe communication. <i>Science Advances</i> , 2020, 6, eaax8254.	10.3	60
9	Shifts in plant-microbe interactions over community succession and their effects on plant resistance to herbivores. <i>New Phytologist</i> , 2020, 226, 1144-1157.	7.3	35
10	Human-Mediated Land Use Change Drives Intraspecific Plant Trait Variation. <i>Frontiers in Plant Science</i> , 2020, 11, 592881.	3.6	7
11	The ecological consequences of herbivore-induced plant responses on plant-pollinator interactions. <i>Emerging Topics in Life Sciences</i> , 2020, 4, 33-43.	2.6	23
12	Scented nectar and the challenge of measuring honest signals in pollination. <i>Journal of Ecology</i> , 2020, 108, 2132-2144.	4.0	20
13	Colony-level chemical profiles do not provide reliable information about colony size in the honey bee. <i>Ecological Entomology</i> , 2020, 45, 679-687.	2.2	1
14	Insect Herbivory Selects for Volatile-Mediated Plant-Plant Communication. <i>Current Biology</i> , 2019, 29, 3128-3133.e3.	3.9	76
15	Context-dependent induction of allelopathy in plants under competition. <i>Oikos</i> , 2019, 128, 1492-1502.	2.7	15
16	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, .	2.2	37
17	Geographic isolation, pollination syndromes, and pollinator generalization in Himalayan <i>Roscoea</i> spp. ( <i>Zingiberaceae</i> ). <i>Ecosphere</i> , 2019, 10, e02943.	2.2	14
18	4. Merging microbial and plant profiling to understand the impact of human-generated extreme environments on natural and agricultural systems. , 2019, , 57-92.		2

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19	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.	7.3	70
20	Eco-evolutionary processes affecting plant-herbivore interactions during early community succession. <i>Oecologia</i> , 2018, 187, 547-559.	2.0	15
21	Covariation and phenotypic integration in chemical communication displays: biosynthetic constraints and eco-evolutionary implications. <i>New Phytologist</i> , 2018, 220, 739-749.	7.3	101
22	Combination of Acylglucose QTL reveals additive and epistatic genetic interactions and impacts insect oviposition and virus infection. <i>Molecular Breeding</i> , 2018, 38, 1.	2.1	31
23	Introduction to a special feature issue "New insights into plant volatiles. <i>New Phytologist</i> , 2018, 220, 655-658.	7.3	5
24	Plant Secondary Metabolite Diversity and Species Interactions. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2018, 49, 115-138.	8.3	243
25	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.	2.0	6
26	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.	2.3	24
27	Arsenic Bioaccumulation by <i>Eruca sativa</i> Is Unaffected by Intercropping or Plant Density. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	2.4	2
28	Plant defences limit herbivore population growth by changing predator-prey interactions. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20171120.	2.6	13
29	Combination of QTL affecting acylsugar chemistry reveals additive and epistatic genetic interactions to increase acylsugar profile diversity. <i>Molecular Breeding</i> , 2017, 37, 1.	2.1	13
30	Functional reduction in pollination through herbivore-induced pollinator limitation and its potential in mutualist communities. <i>Nature Communications</i> , 2017, 8, 2031.	12.8	23
31	Plant communication in a widespread goldenrod: keeping herbivores on the move. <i>Functional Ecology</i> , 2017, 31, 1049-1061.	3.6	42
32	Stress Responses in Plants: Mechanisms of Toxicity and Tolerance. Edited by Bhumi Nath Tripathi and Maria Moller. Cham (Switzerland) and New York: Springer. \$189.00. vi + 292 p.; ill.; no index. ISBN: 978-3-319-13367-6 (hc); 978-3-319-13368-3 (eb). 2015.. <i>Quarterly Review of Biology</i> , 2017, 92, 339-339.	0.1	0
33	Physiological Responses of Plants to Attack. By Dale R. Walters. Hoboken (New Jersey): Wiley Blackwell. \$79.99 (paper). xi + 229 p.; ill.; index. ISBN: 978-1-4443-3329-9. 2015.. <i>Quarterly Review of Biology</i> , 2017, 92, 338-339.	0.1	0
34	Herbivore release drives parallel patterns of evolutionary divergence in invasive plant phenotypes. <i>Journal of Ecology</i> , 2016, 104, 876-886.	4.0	29
35	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.	4.0	20
36	The geographic mosaic of plant chemistry and its effects on community and population genetic diversity. <i>New Phytologist</i> , 2016, 212, 8-10.	7.3	0

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37	Inducible plant defences and the environmental context. <i>Functional Ecology</i> , 2016, 30, 1738-1739.	3.6	4
38	Introduction to a <i>Virtual Special Issue</i> on plant volatiles. <i>New Phytologist</i> , 2016, 209, 1333-1337.	7.3	4
39	Keystone Herbivores and the Evolution of Plant Defenses. <i>Trends in Plant Science</i> , 2016, 21, 477-485.	8.8	83
40	Differential and Synergistic Functionality of Acylsugars in Suppressing Oviposition by Insect Herbivores. <i>PLoS ONE</i> , 2016, 11, e0153345.	2.5	75
41	Chemical information structuring the plant interaction network. , 2016, , .		0
42	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, 1273-1285.	2.8	33
43	The information landscape of plant constitutive and induced secondary metabolite production. <i>Current Opinion in Insect Science</i> , 2015, 8, 47-53.	4.4	88
44	Spatiotemporal Floral Scent Variation of <i>Penstemon digitalis</i> . <i>Journal of Chemical Ecology</i> , 2015, 41, 641-650.	1.8	43
45	Noisy Communication via Airborne Infochemicals. <i>BioScience</i> , 2015, 65, 667-677.	4.9	43
46	The raison d'Être of chemical ecology. <i>Ecology</i> , 2015, 96, 617-630.	3.2	83
47	A Specialist Herbivore Uses Chemical Camouflage to Overcome the Defenses of an Ant-Plant Mutualism. <i>PLoS ONE</i> , 2014, 9, e102604.	2.5	10
48	Fine-root system development and susceptibility to pathogen colonization. <i>Planta</i> , 2014, 239, 325-340.	3.2	67
49	Exploring plant defense theory in tall goldenrod, <i>Solidago altissima</i>. <i>New Phytologist</i> , 2014, 202, 1357-1370.	7.3	43
50	Plant mating systems affect adaptive plasticity in response to herbivory. <i>Plant Journal</i> , 2014, 78, 481-490.	5.7	21
51	Quantitative trait loci regulating the fatty acid profile of acylsugars in tomato. <i>Molecular Breeding</i> , 2014, 34, 1201-1213.	2.1	31
52	The scent of danger: Volatile-mediated information transfer and defence priming in plants. <i>Biochemist</i> , 2014, 36, 26-31.	0.5	7
53	A test of genotypic variation in specificity of herbivore-induced responses in <i>Solidago altissima</i> L. (Asteraceae). <i>Oecologia</i> , 2013, 173, 1387-1396.	2.0	48
54	Dietary plant phenolic improves survival of bacterial infection in <i>Manduca sexta</i> caterpillars. <i>Entomologia Experimentalis Et Applicata</i> , 2013, 146, 321-331.	1.4	21

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55	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, 3973-3978.	7.1	62
56	Plant chemistry underlies herbivore-mediated inbreeding depression in nature. <i>Ecology Letters</i> , 2013, 16, 252-260.	6.4	58
57	Herbivore exclusion drives the evolution of plant competitiveness via increased allelopathy. <i>New Phytologist</i> , 2013, 198, 916-924.	7.3	82
58	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, 1287-1296.	3.2	41
59	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.	2.4	38
60	The Effect of Polychlorinated Biphenyls on the Song of Two Passerine Species. <i>PLoS ONE</i> , 2013, 8, e73471.	2.5	21
61	<i>Lobelia siphilitica</i> Plants That Escape Herbivory in Time Also Have Reduced Latex Production. <i>PLoS ONE</i> , 2012, 7, e37745.	2.5	10
62	New Synthesis: Plant Volatiles as Functional Cues in Intercropping Systems. <i>Journal of Chemical Ecology</i> , 2012, 38, 1341-1341.	1.8	14
63	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.	7.3	165
64	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.	4.0	33
65	Overcompensating plants: their expression of resistance traits and effects on herbivore preference and performance. <i>Entomologia Experimentalis Et Applicata</i> , 2012, 143, 245-253.	1.4	20
66	<i>Plant Defense: Warding Off Attack by Pathogens, Herbivores, and Parasitic Plants</i> . 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.	0.1	2
67	The multiple faces of indirect defences and their agents of natural selection. <i>Functional Ecology</i> , 2011, 25, 348-357.	3.6	233
68	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.	7.3	74
69	Herbivory-mediated pollinator limitation: negative impacts of induced volatiles on plant-pollinator interactions. <i>Ecology</i> , 2011, 92, 1769-1780.	3.2	169
70	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.	1.1	20
71	Pollinators exert natural selection on flower size and floral display in <i>Penstemon digitalis</i> . <i>New Phytologist</i> , 2010, 188, 393-402.	7.3	141
72	The enemy as ally: herbivore-induced increase in crop yield. <i>Ecological Applications</i> , 2010, 20, 1787-1793.	3.8	63

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73	Evolutionary Trade-Offs in Plants Mediate the Strength of Trophic Cascades. <i>Science</i> , 2010, 327, 1642-1644.	12.6	114
74	Pollinator-mediated natural selection in <i>Penstemon digitalis</i> . <i>Plant Signaling and Behavior</i> , 2010, 5, 1688-1690.	2.4	2
75	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.	3.6	225
76	Shared signals “alarm calls” from plants increase apparency to herbivores and their enemies in nature. <i>Ecology Letters</i> , 2008, 11, 24-34.	6.4	250
77	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, 1349-1359.	1.8	19
78	Physiological integration of roots and shoots in plant defense strategies links above- and belowground herbivory. <i>Ecology Letters</i> , 2008, 11, 841-851.	6.4	168
79	CONSTITUTIVE AND INDUCED DEFENSES TO HERBIVORY IN ABOVE- AND BELOWGROUND PLANT TISSUES. <i>Ecology</i> , 2008, 89, 392-406.	3.2	238
80	Specificity and complexity: the impact of herbivore-induced plant responses on arthropod community structure. <i>Current Opinion in Plant Biology</i> , 2007, 10, 409-414.	7.1	134
81	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, 280-292.	2.0	334
82	Plant-insect interactions in the era of consolidation in biological sciences. , 2006, , 19-37.		6
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, 639-649.	5.7	200
84	<i>Solanum nigrum</i> : A model ecological expression system and its tools. <i>Molecular Ecology</i> , 2004, 13, 981-995.	3.9	51
85	Silencing the Jasmonate Cascade: Induced Plant Defenses and Insect Populations. <i>Science</i> , 2004, 305, 665-668.	12.6	514
86	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, 169-176.	6.6	245
87	ECOLOGICAL COSTS AND BENEFITS CORRELATED WITH TRYPSIN PROTEASE INHIBITOR PRODUCTION IN <i>NICOTIANA ATTENUATA</i> . <i>Ecology</i> , 2003, 84, 79-90.	3.2	125
88	MANDUCA QUINQUEMACULATA'S OPTIMIZATION OF INTRA-PLANT OVIPOSITION TO PREDATION, FOOD QUALITY, AND THERMAL CONSTRAINTS. <i>Ecology</i> , 2002, 83, 2346-2354.	3.2	72
89	PLANT RESPONSES TO INSECT HERBIVORY: The Emerging Molecular Analysis. <i>Annual Review of Plant Biology</i> , 2002, 53, 299-328.	18.7	1,299
90	Volatile signaling in plant “herbivore interactions: what is real?. <i>Current Opinion in Plant Biology</i> , 2002, 5, 351-354.	7.1	181

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91	Defensive Function of Herbivore-Induced Plant Volatile Emissions in Nature. <i>Science</i> , 2001, 291, 2141-2144.	12.6	1,835
92	Morphology and foraging behaviour of Siberian <i>Phylloscopus</i> warblers. <i>Journal of Avian Biology</i> , 2001, 32, 127-138.	1.2	36
93	Merging molecular and ecological approaches in plant-insect interactions. <i>Current Opinion in Plant Biology</i> , 2001, 4, 351-358.	7.1	165
94	Ecophysiological comparison of direct and indirect defenses in <i>Nicotiana attenuata</i> . <i>Oecologia</i> , 2000, 124, 408-417.	2.0	217
95	Plant growth and defense traits in <i>Sorghum bicolor</i> 's response to <i>Chilo partellus</i> in the tropics. <i>Journal of Pest Science</i> , 0, , 1.	3.7	0
96	Comment on "Information arms race explains plant-herbivore chemical communication in ecological communities". , 0, 2, .		1