

Grit Kunert

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

2,115
citations

257450

24
h-index

243625

44
g-index

51
all docs

51
docs citations

51
times ranked

2517
citing authors

#	ARTICLE	IF	CITATIONS
1	Protective perfumes: the role of vegetative volatiles in plant defense against herbivores. <i>Current Opinion in Plant Biology</i> , 2009, 12, 479-485.	7.1	387
2	Alarm pheromone mediates production of winged dispersal morphs in aphids. <i>Ecology Letters</i> , 2005, 8, 596-603.	6.4	173
3	<i>Phyllotreta striolata</i> flea beetles use host plant defense compounds to create their own glucosinolate-myrosinase system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 7349-7354.	7.1	116
4	Chemical cues mediating aphid location by natural enemies. <i>European Journal of Entomology</i> , 2008, 105, 797-806.	1.2	107
5	How Glucosinolates Affect Generalist Lepidopteran Larvae: Growth, Development and Glucosinolate Metabolism. <i>Frontiers in Plant Science</i> , 2017, 8, 1995.	3.6	93
6	The interplay between density- and trait-mediated effects in predator-prey interactions: a case study in aphid wing polymorphism. <i>Oecologia</i> , 2003, 135, 304-312.	2.0	84
7	Increased Terpenoid Accumulation in Cotton (<i>Gossypium hirsutum</i>) Foliage is a General Wound Response. <i>Journal of Chemical Ecology</i> , 2008, 34, 508-522.	1.8	83
8	The first step in the biosynthesis of cocaine in <i>Erythroxylum coca</i> : the characterization of arginine and ornithine decarboxylases. <i>Plant Molecular Biology</i> , 2012, 78, 599-615.	3.9	82
9	Inverse resource allocation between vision and olfaction across the genus <i>Drosophila</i> . <i>Nature Communications</i> , 2019, 10, 1162.	12.8	80
10	The organ-specific expression of terpene synthase genes contributes to the terpene hydrocarbon composition of chamomile essential oils. <i>BMC Plant Biology</i> , 2012, 12, 84.	3.6	66
11	To Feed or Not to Feed: Plant Factors Located in the Epidermis, Mesophyll, and Sieve Elements Influence Pea Aphid's Ability to Feed on Legume Species. <i>PLoS ONE</i> , 2013, 8, e75298.	2.5	60
12	Untargeted Metabolomics Approach Reveals Differences in Host Plant Chemistry Before and After Infestation With Different Pea Aphid Host Races. <i>Frontiers in Plant Science</i> , 2019, 10, 188.	3.6	50
13	Constitutive emission of the aphid alarm pheromone, (E)- β -farnesene, from plants does not serve as a direct defense against aphids. <i>BMC Ecology</i> , 2010, 10, 23.	3.0	46
14	Real-Time Analysis of Alarm Pheromone Emission by the Pea Aphid (<i>Acyrtosiphon Pisum</i>) Under Predation. <i>Journal of Chemical Ecology</i> , 2008, 34, 76-81.	1.8	42
15	Aphid Wing Induction and Ecological Costs of Alarm Pheromone Emission under Field Conditions. <i>PLoS ONE</i> , 2010, 5, e11188.	2.5	41
16	Do Aphid Colonies Amplify their Emission of Alarm Pheromone?. <i>Journal of Chemical Ecology</i> , 2008, 34, 1149-1152.	1.8	33
17	Feeding on Leaves of the Glucosinolate Transporter Mutant <i>gtr1gtr2</i> Reduces Fitness of <i>Myzus persicae</i> . <i>Journal of Chemical Ecology</i> , 2015, 41, 975-984.	1.8	32
18	Biosynthesis and antifungal activity of fungus-induced <i>O</i> -methylated flavonoids in maize. <i>Plant Physiology</i> , 2022, 188, 167-190.	4.8	32

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19	The importance of antennae for pea aphid wing induction in the presence of natural enemies. <i>Bulletin of Entomological Research</i> , 2005, 95, 125-131.	1.0	31
20	One Pathway Is Not Enough: The Cabbage Stem Flea Beetle <i>Psylliodes chrysocephala</i> Uses Multiple Strategies to Overcome the Glucosinolate-Myrosinase Defense in Its Host Plants. <i>Frontiers in Plant Science</i> , 2018, 9, 1754.	3.6	30
21	Evolution and functional characterization of CAZymes belonging to subfamily 10 of glycoside hydrolase family 5 (GH5_10) in two species of phytophagous beetles. <i>PLoS ONE</i> , 2017, 12, e0184305.	2.5	29
22	Immune modulation enables a specialist insect to benefit from antibacterial withanolides in its host plant. <i>Nature Communications</i> , 2016, 7, 12530.	12.8	27
23	Differences in defensive behaviour between host-adapted races of the pea aphid. <i>Ecological Entomology</i> , 2010, 35, 147-154.	2.2	26
24	Modulation of Legume Defense Signaling Pathways by Native and Non-native Pea Aphid Clones. <i>Frontiers in Plant Science</i> , 2016, 07, 1872.	3.6	26
25	Juvenile hormone titres and winged offspring production do not correlate in the pea aphid, <i>Acyrtosiphon pisum</i> . <i>Journal of Insect Physiology</i> , 2008, 54, 1332-1336.	2.0	25
26	Optimization of Agroinfiltration in <i>Pisum sativum</i> Provides a New Tool for Studying the Salivary Protein Functions in the Pea Aphid Complex. <i>Frontiers in Plant Science</i> , 2016, 7, 1171.	3.6	25
27	Attachment forces of pea aphids (<i>Acyrtosiphon pisum</i>) on different legume species. <i>Ecological Entomology</i> , 2015, 40, 732-740.	2.2	23
28	Is there any evidence that aphid alarm pheromones work as prey and host finding kairomones for natural enemies?. <i>Ecological Entomology</i> , 2016, 41, 1-12.	2.2	22
29	The influence of natural enemies on wing induction in <i>Aphis fabae</i> and <i>Megoura viciae</i> (Hemiptera: Aphididae). <i>Bulletin of Entomological Research</i> , 2008, 98, 59-62.	1.0	20
30	Entomopathogenic fungi stimulate transgenerational wing induction in pea aphids, <i>Acyrtosiphon pisum</i> (Hemiptera: Aphididae). <i>Ecological Entomology</i> , 2012, 37, 75-82.	2.2	20
31	Cellulose degradation in <i>Gastrophysa viridula</i> (Coleoptera: Chrysomelidae): functional characterization of two CAZymes belonging to glycoside hydrolase family 45 reveals a novel enzymatic activity. <i>Insect Molecular Biology</i> , 2018, 27, 633-650.	2.0	20
32	Glucosinolate Abundance and Composition in Brassicaceae Influence Sequestration in a Specialist Flea Beetle. <i>Journal of Chemical Ecology</i> , 2020, 46, 186-197.	1.8	19
33	Alarm pheromone emission by pea aphid, <i>Acyrtosiphon pisum</i> , clones under predation by lacewing larvae. <i>Entomologia Experimentalis Et Applicata</i> , 2008, 128, 403-409.	1.4	18
34	Barley yellow dwarf virus Infection Leads to Higher Chemical Defense Signals and Lower Electrophysiological Reactions in Susceptible Compared to Tolerant Barley Genotypes. <i>Frontiers in Plant Science</i> , 2018, 9, 145.	3.6	17
35	Density dependence of the alarm pheromone effect in pea aphids, <i>Acyrtosiphon pisum</i> (Sternorrhyncha: Aphididae). <i>European Journal of Entomology</i> , 2007, 104, 47-50.	1.2	17
36	<i>Idesia polycarpa</i> (Salicaceae) leaf constituents and their toxic effect on <i>Cerura vinula</i> and <i>Lymantria dispar</i> (Lepidoptera) larvae. <i>Phytochemistry</i> , 2017, 143, 170-179.	2.9	14

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37	Sex ratio of mirid populations shifts in response to hostplant coinfestation or altered cytokinin signaling. <i>Journal of Integrative Plant Biology</i> , 2017, 59, 44-59.	8.5	14
38	Analysis of volatiles from <i>Picea abies</i> triggered by below-ground interactions. <i>Environmental and Experimental Botany</i> , 2015, 110, 56-61.	4.2	13
39	Shifting <i>Nicotiana attenuata</i> 's diurnal rhythm does not alter its resistance to the specialist herbivore <i>Manduca sexta</i> . <i>Journal of Integrative Plant Biology</i> , 2016, 58, 656-668.	8.5	13
40	Pectin Digestion in Herbivorous Beetles: Impact of Pseudoenzymes Exceeds That of Their Active Counterparts. <i>Frontiers in Physiology</i> , 2019, 10, 685.	2.8	13
41	Enemy-free space promotes maintenance of host races in an aphid species. <i>Oecologia</i> , 2016, 181, 659-672.	2.0	11
42	Biosynthetic and Functional Color-Scent Associations in Flowers of <i>Papaver nudicaule</i> and Their Impact on Pollinators. <i>ChemBioChem</i> , 2018, 19, 1553-1562.	2.6	8
43	Hoverfly preference for high honeydew amounts creates enemy-free space for aphids colonizing novel host plants. <i>Journal of Animal Ecology</i> , 2016, 85, 1286-1297.	2.8	7
44	Dealing with food shortage: larval dispersal behaviour and survival on non-prey food of the hoverfly <i>Episyrphus balteatus</i> . <i>Ecological Entomology</i> , 2018, 43, 578-590.	2.2	7
45	Species-Specific and Distance-Dependent Dispersive Behaviour of Forisomes in Different Legume Species. <i>International Journal of Molecular Sciences</i> , 2021, 22, 492.	4.1	6
46	Ecological Costs of Alarm Signalling in Aphids. , 2010, , 171-181.		6
47	Comparison of intracellular location and stimulus reaction times of forisomes in sieve tubes of four legume species. <i>Plant Signaling and Behavior</i> , 2018, 13, 1-5.	2.4	1
48	Short-term consequences of nutritional depression on foraging behaviour of dark bush-crickets <i>Pholidoptera griseoptera</i> (Orthoptera: Ensifera). <i>European Journal of Entomology</i> , 2006, 103, 249-253.	1.2	0