

# Astrid Kannaste

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

1,964  
citations

331670

21  
h-index

501196

28  
g-index

28  
all docs

28  
docs citations

28  
times ranked

2804  
citing authors

#	ARTICLE	IF	CITATIONS
1	Drought-Tolerance of Wheat Improved by Rhizosphere Bacteria from Harsh Environments: Enhanced Biomass Production and Reduced Emissions of Stress Volatiles. PLoS ONE, 2014, 9, e96086.	2.5	506
2	The fate of carbon in a mature forest under carbon dioxide enrichment. Nature, 2020, 580, 227-231.	27.8	218
3	Quantitative patterns between plant volatile emissions induced by biotic stresses and the degree of damage. Frontiers in Plant Science, 2013, 4, 262.	3.6	205
4	Emissions of green leaf volatiles and terpenoids from <i>Solanum lycopersicum</i> are quantitatively related to the severity of cold and heat shock treatments. Journal of Plant Physiology, 2012, 169, 664-672.	3.5	161
5	Volatile Emissions from <i>Alnus glutinosa</i> Induced by Herbivory are Quantitatively Related to the Extent of Damage. Journal of Chemical Ecology, 2011, 37, 18-28.	1.8	110
6	Volatile organic compound emissions from <i>Alnus glutinosa</i> under interacting drought and herbivory stresses. Environmental and Experimental Botany, 2014, 100, 55-63.	4.2	105
7	Effects of nitrogen fertilization on insect pests, their parasitoids, plant diseases and volatile organic compounds in <i>Brassica napus</i> . Crop Protection, 2013, 43, 79-88.	2.1	68
8	Oviposition Responses of <i>Anopheles gambiae</i> s.s. (Diptera: Culicidae) and Identification of Volatiles from Bacteria-Containing Solutions. Journal of Medical Entomology, 2008, 45, 1039-1049.	1.8	59
9	How specialized volatiles respond to chronic and short-term physiological and shock heat stress in <i>Brassica nigra</i> . Plant, Cell and Environment, 2016, 39, 2027-2042.	5.7	55
10	Germacrene A synthase in yarrow ( <i>Achillea millefolium</i> ) is an enzyme with mixed substrate specificity: gene cloning, functional characterization and expression analysis. Frontiers in Plant Science, 2015, 6, 111.	3.6	53
11	Gas Chromatography-Mass Spectrometry Method for Determination of Biogenic Volatile Organic Compounds Emitted by Plants. Methods in Molecular Biology, 2014, 1153, 161-169.	0.9	52
12	Mono- and sesquiterpene release from tomato ( <i>Solanum lycopersicum</i> ) leaves upon mild and severe heat stress and through recovery: From gene expression to emission responses. Environmental and Experimental Botany, 2016, 132, 1-15.	4.2	51
13	Herbivory by an Outbreking Moth Increases Emissions of Biogenic Volatiles and Leads to Enhanced Secondary Organic Aerosol Formation Capacity. Environmental Science & Technology, 2016, 50, 11501-11510.	10.0	34
14	Disproportionate photosynthetic decline and inverse relationship between constitutive and induced volatile emissions upon feeding of <i>Quercus robur</i> leaves by large larvae of gypsy moth ( <i>Lymantria</i> )	1.2	10
15	Emissions of carotenoid cleavage products upon heat shock and mechanical wounding from a foliose lichen. Environmental and Experimental Botany, 2017, 133, 87-97.	4.2	32
16	Infestation by a <i>Nalepella</i> species induces emissions of $\pm$ - and $\hat{2}$ -farnesenes, ( $\hat{\alpha}$ )-linalool and aromatic compounds in Norway spruce clones of different susceptibility to the large pine weevil. Arthropod-Plant Interactions, 2008, 2, 31-41.	1.1	26
17	Volatiles from a Mite-Infested Spruce Clone and Their Effects on Pine Weevil Behavior. Journal of Chemical Ecology, 2009, 35, 1262-1271.	1.8	26
18	Highly variable chemical signatures over short spatial distances among Scots pine ( <i>Pinus sylvestris</i> ) populations. Tree Physiology, 2013, 33, 374-387.	3.1	26

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19	Bisphosphonate Inhibitors Reveal a Large Elasticity of Plastidic Isoprenoid Synthesis Pathway in Isoprene-Emitting Hybrid Aspen. <i>Plant Physiology</i> , 2015, 168, 532-548.	4.8	26
20	Ozone-triggered surface uptake and stress volatile emissions in <i>Nicotiana tabacum</i> "Wisconsin". <i>Journal of Experimental Botany</i> , 2018, 69, 681-697.	4.8	26
21	Lethal heat stress-dependent volatile emissions from tobacco leaves: what happens beyond the thermal edge?. <i>Journal of Experimental Botany</i> , 2019, 70, 5017-5030.	4.8	25
22	Mini-seedlings of <i>Picea abies</i> are less attacked by <i>Hylobius abietis</i> than conventional ones: Is plant chemistry the explanation?. <i>Scandinavian Journal of Forest Research</i> , 2008, 23, 299-306.	1.4	21
23	Odors of Norway spruce ( <i>Picea abies</i> L.) seedlings: differences due to age and chemotype. <i>Trees - Structure and Function</i> , 2013, 27, 149-159.	1.9	19
24	Isoprenoid and aromatic compound emissions in relation to leaf structure, plant growth form and species ecology in 45 East-Asian urban subtropical woody species. <i>Urban Forestry and Urban Greening</i> , 2020, 53, 126705.	5.3	12
25	Diterpenoid fingerprints in pine foliage across an environmental and chemotypic matrix: Isoabienol content is a key trait differentiating chemotypes. <i>Phytochemistry</i> , 2018, 147, 80-88.	2.9	7
26	Combined Acute Ozone and Water Stress Alters the Quantitative Relationships between O <sub>3</sub> Uptake, Photosynthetic Characteristics and Volatile Emissions in <i>Brassica nigra</i> . <i>Molecules</i> , 2021, 26, 3114.	3.8	4
27	Powdery mildew ( <i>Erysiphe cruciferarum</i> ) evaluation on oilseed rape and alternative cruciferous oilseed crops in the northern Baltic region in unusually warm growing seasons. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2021, 71, 443-452.	0.6	2
28	Alternaria Black Spot ( <i>Alternaria brassicae</i> ) Infection Severity on Cruciferous Oilseed Crops. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8507.	2.5	2