

James Blande

List of Publications by Year in descending order

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77
papers

3,604
citations

117625

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138484

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times ranked

3381
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#	ARTICLE	IF	CITATIONS
1	Volatile-mediated plant–plant interactions: volatile organic compounds as modulators of receiver plant defence, growth, and reproduction. <i>Journal of Experimental Botany</i> , 2022, 73, 511-528.	4.8	73
2	Amplified Drought and Seasonal Cycle Modulate <i>Quercus pubescens</i> Leaf Metabolome. <i>Metabolites</i> , 2022, 12, 307.	2.9	7
3	Ozone Mitigates the Adverse Effects of Diesel Exhaust Pollutants on Ground-Active Invertebrates in Wheat. <i>Frontiers in Ecology and Evolution</i> , 2022, 10, .	2.2	4
4	Effects of air pollution on plant–insect interactions mediated by olfactory and visual cues. <i>Current Opinion in Environmental Science and Health</i> , 2021, 19, 100228.	4.1	28
5	Potential of Climate Change and Herbivory to Affect the Release and Atmospheric Reactions of BVOCs from Boreal and Subarctic Forests. <i>Molecules</i> , 2021, 26, 2283.	3.8	10
6	Diurnal variation in BVOC emission and CO ₂ gas exchange from above- and belowground parts of two coniferous species and their responses to elevated O ₃ . <i>Environmental Pollution</i> , 2021, 278, 116830.	7.5	9
7	Bank vole alarm pheromone chemistry and effects in the field. <i>Oecologia</i> , 2021, 196, 667-677.	2.0	1
8	Exposure to (Z)-11-hexadecenal [(Z)-11-16:Ald] increases <i>Brassica nigra</i> susceptibility to subsequent herbivory. <i>Scientific Reports</i> , 2021, 11, 13532.	3.3	4
9	Risk of herbivory negatively correlates with the diversity of volatile emissions involved in plant communication. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20211790.	2.6	6
10	Dynamics of plant responses to combinations of air pollutants. <i>Plant Biology</i> , 2020, 22, 68-83.	3.8	21
11	The Effects of Ozone on Herbivore-Induced Volatile Emissions of Cultivated and Wild <i>Brassica Rapa</i> . <i>Atmosphere</i> , 2020, 11, 1213.	2.3	6
12	Ozone affects plant, insect, and soil microbial communities: A threat to terrestrial ecosystems and biodiversity. <i>Science Advances</i> , 2020, 6, eabc1176.	10.3	181
13	Does ozone exposure affect herbivore-induced plant volatile emissions differently in wild and cultivated plants?. <i>Environmental Science and Pollution Research</i> , 2020, 27, 30448-30459.	5.3	12
14	Assessing plant-to-plant communication and induced resistance in sagebrush using the sagebrush specialist <i>Trirhabda pilosa</i> . <i>Arthropod-Plant Interactions</i> , 2020, 14, 327-332.	1.1	6
15	Herbivore Gender Effects on Volatile Induction in Aspen and on Olfactory Responses in Leaf Beetles. <i>Forests</i> , 2020, 11, 638.	2.1	4
16	The phytotoxic air-pollutant O ₃ enhances the emission of herbivore-induced volatile organic compounds (VOCs) and affects the susceptibility of black mustard plants to pest attack. <i>Environmental Pollution</i> , 2020, 265, 115030.	7.5	11
17	Microorganisms in the phylloplane modulate the BVOC emissions of <i>Brassica nigra</i> leaves. <i>Plant Signaling and Behavior</i> , 2020, 15, 1728468.	2.4	5
18	Functional Role of Extrafloral Nectar in Boreal Forest Ecosystems under Climate Change. <i>Forests</i> , 2020, 11, 67.	2.1	6

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19	Deposition of α -pinene oxidation products on plant surfaces affects plant VOC emission and herbivore feeding and oviposition. <i>Environmental Pollution</i> , 2020, 263, 114437.	7.5	7
20	Unravelling the functions of biogenic volatiles in boreal and temperate forest ecosystems. <i>European Journal of Forest Research</i> , 2019, 138, 763-787.	2.5	53
21	The effect of elevated ozone on floral chemistry of Brassicaceae species. <i>Environmental Pollution</i> , 2019, 255, 113257.	7.5	49
22	Foliar behaviour of biogenic semi-volatiles: potential applications in sustainable pest management. <i>Arthropod-Plant Interactions</i> , 2019, 13, 193-212.	1.1	38
23	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
24	Understorey <i>Rhododendron tomentosum</i> and Leaf Trichome Density Affect Mountain Birch VOC Emissions in the Subarctic. <i>Scientific Reports</i> , 2018, 8, 13261.	3.3	17
25	Climate Change Effects on Secondary Compounds of Forest Trees in the Northern Hemisphere. <i>Frontiers in Plant Science</i> , 2018, 9, 1445.	3.6	135
26	Biofiltration of airborne VOCs with green wall systems-Microbial and chemical dynamics. <i>Indoor Air</i> , 2018, 28, 697-707.	4.3	30
27	Ozone disrupts adsorption of <i>Rhododendron tomentosum</i> volatiles to neighbouring plant surfaces, but does not disturb herbivore repellency. <i>Environmental Pollution</i> , 2018, 240, 775-780.	7.5	11
28	Resistance of native oak to recurrent drought conditions simulating predicted climatic changes in the Mediterranean region. <i>Plant, Cell and Environment</i> , 2018, 41, 2299-2312.	5.7	20
29	Volatile-Mediated Interactions between Cabbage Plants in the Field and the Impact of Ozone Pollution. <i>Journal of Chemical Ecology</i> , 2017, 43, 339-350.	1.8	23
30	Plant Communication With Herbivores. <i>Advances in Botanical Research</i> , 2017, 82, 281-304.	1.1	9
31	Volatile-Mediated within-Plant Signaling in Hybrid Aspen: Required for Systemic Responses. <i>Journal of Chemical Ecology</i> , 2017, 43, 327-338.	1.8	18
32	Passive Adsorption of Volatile Monoterpene in Pest Control: Aided by Proximity and Disrupted by Ozone. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 9579-9586.	5.2	12
33	How common is within-plant signaling via volatiles?. <i>Plant Signaling and Behavior</i> , 2017, 12, e1347743.	2.4	9
34	Central Metabolic Responses to Ozone and Herbivory Affect Photosynthesis and Stomatal Closure. <i>Plant Physiology</i> , 2016, 172, 2057-2078.	4.8	29
35	Geographic dialects in volatile communication between sagebrush individuals. <i>Ecology</i> , 2016, 97, 2917-2924.	3.2	36
36	Elevated Ozone Modulates Herbivore-Induced Volatile Emissions of <i>Brassica nigra</i> and Alters a Tritrophic Interaction. <i>Journal of Chemical Ecology</i> , 2016, 42, 368-381.	1.8	22

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37	Ozone degrades floral scent and reduces pollinator attraction to flowers. <i>New Phytologist</i> , 2016, 209, 152-160.	7.3	106
38	Plant-plant interactions affect the susceptibility of plants to oviposition by pests but are disrupted by ozone pollution. <i>Agriculture, Ecosystems and Environment</i> , 2016, 233, 352-360.	5.3	19
39	Herbivory by an Outbreking Moth Increases Emissions of Biogenic Volatiles and Leads to Enhanced Secondary Organic Aerosol Formation Capacity. <i>Environmental Science & Technology</i> , 2016, 50, 11501-11510.	10.0	34
40	Deciphering Chemical Language of Plant Communication: Synthesis and Future Research Directions. <i>Signaling and Communication in Plants</i> , 2016, , 319-326.	0.7	3
41	CHEMOTYPIC Variation in Volatiles and Herbivory for Sagebrush. <i>Journal of Chemical Ecology</i> , 2016, 42, 829-840.	1.8	7
42	Atmospheric transformation of plant volatiles disrupts host plant finding. <i>Scientific Reports</i> , 2016, 6, 33851.	3.3	40
43	Biotic stress accelerates formation of climate-relevant aerosols in boreal forests. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 12139-12157.	4.9	48
44	Do Insectivorous Birds use Volatile Organic Compounds from Plants as Olfactory Foraging Cues? Three Experimental Tests. <i>Ethology</i> , 2015, 121, 1131-1144.	1.1	23
45	Ozone affects growth and development of <i>Pieris brassicae</i> on the wild host plant <i>Brassica nigra</i> . <i>Environmental Pollution</i> , 2015, 199, 119-129.	7.5	39
46	Atmospheric benzenoid emissions from plants rival those from fossil fuels. <i>Scientific Reports</i> , 2015, 5, 12064.	3.3	104
47	Associational susceptibility in broccoli: mediated by plant volatiles, impeded by ozone. <i>Global Change Biology</i> , 2015, 21, 1993-2004.	9.5	46
48	Epichloa Endophytes Alter Inducible Indirect Defences in Host Grasses. <i>PLoS ONE</i> , 2014, 9, e101331.	2.5	33
49	Deciphering the language of plant communication: volatile chemotypes of sagebrush. <i>New Phytologist</i> , 2014, 204, 380-385.	7.3	88
50	A Role for Volatiles in Intra- and Inter-Plant Interactions in Birch. <i>Journal of Chemical Ecology</i> , 2014, 40, 1203-1211.	1.8	17
51	Does application of methyl jasmonate to birch mimic herbivory and attract insectivorous birds in nature?. <i>Arthropod-Plant Interactions</i> , 2014, 8, 143-153.	1.1	35
52	Plant volatiles in polluted atmospheres: stress responses and signal degradation. <i>Plant, Cell and Environment</i> , 2014, 37, 1892-1904.	5.7	150
53	Effects of warming climate on early-season carbon allocation and height growth of defoliated mountain birches. <i>Plant Ecology</i> , 2013, 214, 373-383.	1.6	5
54	Pre-exposure to nitric oxide modulates the effect of ozone on oxidative defenses and volatile emissions in lima bean. <i>Environmental Pollution</i> , 2013, 179, 111-119.	7.5	23

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55	Where do herbivore-induced plant volatiles go?. <i>Frontiers in Plant Science</i> , 2013, 4, 185.	3.6	120
56	Multitrophic Signalling in Polluted Atmospheres. <i>Tree Physiology</i> , 2013, , 285-314.	2.5	16
57	Molecular Plant Volatile Communication. <i>Advances in Experimental Medicine and Biology</i> , 2012, 739, 17-31.	1.6	75
58	Herbivore-induced aspen volatiles temporally regulate two different indirect defences in neighbouring plants. <i>Functional Ecology</i> , 2012, 26, 1176-1185.	3.6	40
59	Manipulation of VOC emissions with methyl jasmonate and carrageenan in the evergreen conifer <i>Pinus sylvestris</i> and evergreen broadleaf <i>Quercus ilex</i> . <i>Plant Biology</i> , 2012, 14, 57-65.	3.8	24
60	Feeding of large pine weevil on Scots pine stem triggers localised bark and systemic shoot emission of volatile organic compounds. <i>Environmental and Experimental Botany</i> , 2011, 71, 390-390.	4.2	50
61	Air pollution impedes plant-to-plant communication, but what is the signal?. <i>Plant Signaling and Behavior</i> , 2011, 6, 1016-1018.	2.4	4
62	Plant Volatile Organic Compounds (VOCs) in Ozone (O ₃) Polluted Atmospheres: The Ecological Effects. <i>Journal of Chemical Ecology</i> , 2010, 36, 22-34.	1.8	148
63	Cross-resistance relationships between neonicotinoids and pymetrozine in <i>Bemisia tabaci</i> (Hemiptera: Aleyrodidae). <i>Pest Management Science</i> , 2010, 66, 1186-1190.	3.4	104
64	Birch (<i>Betula</i> spp.) leaves adsorb and re-release volatiles specific to neighbouring plants – a mechanism for associational herbivore resistance?. <i>New Phytologist</i> , 2010, 186, 722-732.	7.3	165
65	Real-time monitoring of herbivore induced volatile emissions in the field. <i>Physiologia Plantarum</i> , 2010, 138, 123-133.	5.2	93
66	Air pollution impedes plant-to-plant communication by volatiles. <i>Ecology Letters</i> , 2010, 13, 1172-1181.	6.4	83
67	Foliar methyl salicylate emissions indicate prolonged aphid infestation on silver birch and black alder. <i>Tree Physiology</i> , 2010, 30, 404-416.	3.1	64
68	Plant-emitted semi-volatiles shape the infochemical environment and herbivore resistance of heterospecific neighbors. <i>Plant Signaling and Behavior</i> , 2010, 5, 1234-1236.	2.4	7
69	Pine weevil feeding on Norway spruce bark has a stronger impact on needle VOC emissions than enhanced ultraviolet-B radiation. <i>Environmental Pollution</i> , 2009, 157, 174-180.	7.5	60
70	Life-history strategies affect aphid preference for yellowing leaves. <i>Biology Letters</i> , 2009, 5, 603-605.	2.3	61
71	From Plants to Birds: Higher Avian Predation Rates in Trees Responding to Insect Herbivory. <i>PLoS ONE</i> , 2008, 3, e2832.	2.5	128
72	Host foraging for differentially adapted Brassica-feeding aphids by the Braconid parasitoid <i>Diaeretiella rapae</i> . <i>Plant Signaling and Behavior</i> , 2008, 3, 580-582.	2.4	17

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73	Emission of herbivore-induced volatile terpenoids from two hybrid aspen (<i>Populus tremula</i> Å—) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Biology, 2007, 13, 2538-2550.	9.5	98
74	Ozone Degrades Common Herbivore-Induced Plant Volatiles: Does This Affect Herbivore Prey Location by Predators and Parasitoids?. <i>Journal of Chemical Ecology</i> , 2007, 33, 683-694.	1.8	128
75	A Comparison of Semiochemically Mediated Interactions Involving Specialist and Generalist Brassica-feeding Aphids and the Braconid Parasitoid <i>Diaeretiella rapae</i> . <i>Journal of Chemical Ecology</i> , 2007, 33, 767-779.	1.8	92
76	Response of economically important aphids to components of <i>Hemizygia petiolata</i> essential oil. <i>Pest Management Science</i> , 2005, 61, 1115-1121.	3.4	151
77	Attack Rate and Success of the Parasitoid <i>Diaeretiella rapae</i> on Specialist and Generalist Feeding Aphids. <i>Journal of Chemical Ecology</i> , 2004, 30, 1781-1795.	1.8	39