

Christopher Frost

List of Publications by Year in descending order

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31
papers

2,026
citations

567281

15
h-index

501196

28
g-index

36
all docs

36
docs citations

36
times ranked

2218
citing authors

#	ARTICLE	IF	CITATIONS
1	Plant Defense Priming against Herbivores: Getting Ready for a Different Battle. <i>Plant Physiology</i> , 2008, 146, 818-824.	4.8	425
2	Within-plant signalling via volatiles overcomes vascular constraints on systemic signalling and primes responses against herbivores. <i>Ecology Letters</i> , 2007, 10, 490-498.	6.4	333
3	Priming defense genes and metabolites in hybrid poplar by the green leaf volatile <i>cis</i> -hexenyl acetate. <i>New Phytologist</i> , 2008, 180, 722-734.	7.3	243
4	INSECT CANOPY HERBIVORY AND FRASS DEPOSITION AFFECT SOIL NUTRIENT DYNAMICS AND EXPORT IN OAK MESOCOSMS. <i>Ecology</i> , 2004, 85, 3335-3347.	3.2	154
5	Herbivore-Induced Volatiles in the Perennial Shrub, <i>Vaccinium corymbosum</i> , and Their Role in Inter-branch Signaling. <i>Journal of Chemical Ecology</i> , 2009, 35, 163-175.	1.8	145
6	Herbivore-induced shifts in carbon and nitrogen allocation in red oak seedlings. <i>New Phytologist</i> , 2008, 178, 835-845.	7.3	100
7	Recycling of nitrogen in herbivore feces: plant recovery, herbivore assimilation, soil retention, and leaching losses. <i>Oecologia</i> , 2007, 151, 42-53.	2.0	90
8	The Tonoplast-Localized Sucrose Transporter in <i>Populus</i> (PtaSUT4) Regulates Whole-Plant Water Relations, Responses to Water Stress, and Photosynthesis. <i>PLoS ONE</i> , 2012, 7, e44467.	2.5	84
9	Cytokinin Primes Plant Responses to Wounding and Reduces Insect Performance. <i>Journal of Plant Growth Regulation</i> , 2010, 29, 289-296.	5.1	62
10	Global urban environmental change drives adaptation in white clover. <i>Science</i> , 2022, 375, 1275-1281.	12.6	62
11	Insect herbivores and their frass affect <i>Quercus rubra</i> leaf quality and initial stages of subsequent litter decomposition. <i>Oikos</i> , 2008, 117, 13-22.	2.7	58
12	Improved Sugar Release from Lignocellulosic Material by Introducing a Tyrosine-rich Cell Wall Peptide Gene in Poplar. <i>Clean - Soil, Air, Water</i> , 2008, 36, 662-668.	1.1	34
13	Drought response transcriptomes are altered in poplar with reduced tonoplast sucrose transporter expression. <i>Scientific Reports</i> , 2016, 6, 33655.	3.3	27
14	A non-catalytic function of carbonic anhydrase IX contributes to the glycolytic phenotype and pH regulation in human breast cancer cells. <i>Biochemical Journal</i> , 2019, 476, 1497-1513.	3.7	26
15	New evidence for a multi-functional role of herbivore-induced plant volatiles in defense against herbivores. <i>Plant Signaling and Behavior</i> , 2010, 5, 58-60.	2.4	23
16	Why do distance limitations exist on plant-plant signaling via airborne volatiles?. <i>Plant Signaling and Behavior</i> , 2008, 3, 466-468.	2.4	16
17	Acute toxicity of the plant volatile indole depends on herbivore specialization. <i>Journal of Pest Science</i> , 2020, 93, 1107-1117.	3.7	16
18	Dispensing a Synthetic Green Leaf Volatile to Two Plant Species in a Common Garden Differentially Alters Physiological Responses and Herbivory. <i>Agronomy</i> , 2021, 11, 958.	3.0	16

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19	Interspecific Eavesdropping on Ant Chemical Communication. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	2.2	15
20	A petiole-galling insect herbivore decelerates leaf lamina litter decomposition rates. <i>Functional Ecology</i> , 2012, 26, 628-636.	3.6	14
21	Red oak responses to nitrogen addition depend on herbivory type, tree family, and site. <i>Forest Ecology and Management</i> , 2010, 259, 1930-1937.	3.2	12
22	Reduction of Motion Artifacts and Noise Using Independent Component Analysis in Task-Based Functional MRI for Preoperative Planning in Patients with Brain Tumor. <i>American Journal of Neuroradiology</i> , 2017, 38, 336-342.	2.4	12
23	UFH-001 cells: A novel triple negative, CAIX-positive, human breast cancer model system. <i>Cancer Biology and Therapy</i> , 2018, 19, 598-608.	3.4	12
24	Slow-cycle effects of foliar herbivory alter the nitrogen acquisition and population size of Collembola. <i>Soil Biology and Biochemistry</i> , 2008, 40, 1253-1258.	8.8	8
25	Effects of herbivores on terrestrial ecosystem processes. , 2012, , 339-370.		6
26	Priming Seeds with Indole and (Z)-3-Hexenyl Acetate Enhances Resistance Against Herbivores and Stimulates Growth. <i>Journal of Chemical Ecology</i> , 2022, 48, 441-454.	1.8	6
27	Defoliation-induced compensatory transpiration is compromised in <i>SUT4</i> RNAi <i>Populus</i> . <i>Plant Direct</i> , 2020, 4, e00268.	1.9	3
28	A visual technique used by citizen scientists shows higher herbivory in understory vs. canopy leaves of a tropical forest. <i>Ecology</i> , 2022, 103, e03539.	3.2	3
29	Effects of <i>Azteca trigona</i> alarm pheromones on heterospecific ant behavior. <i>Insectes Sociaux</i> , 0, , 1.	1.2	1
30	Î²-caryophyllene enhances the transcriptional upregulation of cholesterol biosynthesis in breast cancer cells. <i>Current Topics in Biochemical Research</i> , 2019, 20, 1.	0.0	1
31	Poplar Allene Oxide Synthase 1 Gene Promoter Drives Rapid and Localized Expression by Wounding. <i>Biotechnology Journal International</i> , 0, , 16-28.	0.2	0