

Colin M Orians

List of Publications by Year in descending order

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74
papers

3,303
citations

109321

35
h-index

155660

55
g-index

74
all docs

74
docs citations

74
times ranked

3263
citing authors

#	ARTICLE	IF	CITATIONS
1	Jasmonic acid induces rapid changes in carbon transport and partitioning in Populus. <i>New Phytologist</i> , 2005, 167, 63-72.	7.3	191
2	The effects of hybridization in plants on secondary chemistry: implications for the ecology and evolution of plant-herbivore interactions. <i>American Journal of Botany</i> , 2000, 87, 1749-1756.	1.7	152
3	Methyl jasmonate elicits rapid changes in carbon and nitrogen dynamics in tomato. <i>New Phytologist</i> , 2010, 188, 835-844.	7.3	133
4	Sedum cools soil and can improve neighboring plant performance during water deficit on a green roof. <i>Ecological Engineering</i> , 2011, 37, 1796-1803.	3.6	130
5	Herbivore-induced resource sequestration in plants: why bother?. <i>Oecologia</i> , 2011, 167, 1-9.	2.0	130
6	Testing the growth-differentiation balance hypothesis: dynamic responses of willows to nutrient availability. <i>New Phytologist</i> , 2007, 176, 623-634.	7.3	114
7	Title is missing!. <i>Journal of Chemical Ecology</i> , 2000, 26, 471-485.	1.8	111
8	Seedling herbivory by slugs in a willow hybrid system: developmental changes in damage, chemical defense, and plant performance. <i>Oecologia</i> , 2001, 129, 87-97.	2.0	109
9	Plants as resource mosaics: a functional model for predicting patterns of within-plant resource heterogeneity to consumers based on vascular architecture and local environmental variability. <i>Oikos</i> , 2001, 94, 493-504.	2.7	107
10	Environmental Factors Variably Impact Tea Secondary Metabolites in the Context of Climate Change. <i>Frontiers in Plant Science</i> , 2019, 10, 939.	3.6	102
11	Evolution of Plant Defenses in Nonindigenous Environments. <i>Annual Review of Entomology</i> , 2010, 55, 439-459.	11.8	96
12	Willow hybridization differentially affects preference and performance of herbivorous beetles. <i>Entomologia Experimentalis Et Applicata</i> , 1997, 83, 285-294.	1.4	82
13	Native plant enthusiasm reaches new heights: Perceptions, evidence, and the future of green roofs. <i>Urban Forestry and Urban Greening</i> , 2012, 11, 1-10.	5.3	82
14	Interspecific and temporal variation in herbivore responses to hybrid willows. <i>Oecologia</i> , 1996, 108, 121-129.	2.0	75
15	Herbivore-Induced Changes in Tomato (<i>Solanum lycopersicum</i>) Primary Metabolism: A Whole Plant Perspective. <i>Journal of Chemical Ecology</i> , 2011, 37, 1294-1303.	1.8	73
16	Differential sectoriality in long-distance transport in temperate tree species: evidence from dye flow, 15N transport, and vessel element pitting. <i>Trees - Structure and Function</i> , 2004, 18, 501-509.	1.9	71
17	Secondary chemistry of hybrid and parental willows: Phenolic glycosides and condensed tannins in <i>Salix sericea</i> , <i>S. eriocephala</i> , and their hybrids. <i>Journal of Chemical Ecology</i> , 1995, 21, 1245-1253.	1.8	70
18	<i>Lymmantria dispar</i> herbivory induces rapid changes in carbon transport and partitioning in <i>Populus nigra</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2008, 128, 117-125.	1.4	69

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19	Comparative sectoriality in temperate hardwoods: hydraulics and xylem anatomy. <i>Botanical Journal of the Linnean Society</i> , 2006, 150, 61-71.	1.6	62
20	Genetic and soil-nutrient effects on the abundance of herbivores on willow. <i>Oecologia</i> , 1996, 105, 388-396.	2.0	61
21	Association between Empirically Estimated Monsoon Dynamics and Other Weather Factors and Historical Tea Yields in China: Results from a Yield Response Model. <i>Climate</i> , 2016, 4, 20.	2.8	61
22	Use of carbon-11 in <i>Populus</i> shows that exogenous jasmonic acid increases biosynthesis of isoprene from recently fixed carbon. <i>Plant, Cell and Environment</i> , 2005, 28, 591-602.	5.7	60
23	Vascular architecture and patchy nutrient availability generate within-plant heterogeneity in plant traits important to herbivores. <i>American Journal of Botany</i> , 2002, 89, 270-278.	1.7	58
24	Preserving leaves for tannin and phenolic glycoside analyses: A comparison of methods using three willow taxa. <i>Journal of Chemical Ecology</i> , 1995, 21, 1235-1243.	1.8	56
25	Striking changes in tea metabolites due to elevational effects. <i>Food Chemistry</i> , 2018, 264, 334-341.	8.2	56
26	Exotic herbivores on a shared native host: tissue quality after individual, simultaneous, and sequential attack. <i>Oecologia</i> , 2012, 169, 1015-1024.	2.0	54
27	From shoots to roots: transport and metabolic changes in tomato after simulated feeding by a specialist lepidopteran. <i>Entomologia Experimentalis Et Applicata</i> , 2012, 144, 101-111.	1.4	53
28	Partitioning of New Carbon as ¹¹ C in <i>Nicotiana tabacum</i> Reveals Insight into Methyl Jasmonate Induced Changes in Metabolism. <i>Journal of Chemical Ecology</i> , 2010, 36, 1058-1067.	1.8	47
29	Phenolic glycosides and condensed tannins in <i>Salix sericea</i> , <i>S. eriocephala</i> and their F1 hybrids: not all hybrids are created equal. <i>Biochemical Systematics and Ecology</i> , 2000, 28, 619-632.	1.3	46
30	Soil nutrients and water availability interact to influence willow growth and chemistry but not leaf beetle performance. <i>Entomologia Experimentalis Et Applicata</i> , 2003, 107, 69-79.	1.4	46
31	Slugs, willow seedlings and nutrient fertilization: intrinsic vigor inversely affects palatability. <i>Oikos</i> , 2004, 105, 268-278.	2.7	46
32	Effects of water availability and pest pressures on tea (<i>Camellia sinensis</i>) growth and functional quality. <i>AoB PLANTS</i> , 2014, 6, .	2.3	42
33	How are leaves plumbed inside a branch? Differences in leaf-to-leaf hydraulic sectoriality among six temperate tree species. <i>Journal of Experimental Botany</i> , 2005, 56, 2267-2273.	4.8	40
34	Tree responses to an invasive sap-feeding insect. <i>Plant Ecology</i> , 2014, 215, 297-304.	1.6	39
35	Soil warming accelerates decomposition of fine woody debris. <i>Plant and Soil</i> , 2012, 356, 405-417.	3.7	36
36	Preference and performance of a willow-feeding leaf beetle: soil nutrient and flooding effects on host quality. <i>Oecologia</i> , 2003, 136, 402-411.	2.0	35

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37	Combined impacts of prolonged drought and warming on plant size and foliar chemistry. <i>Annals of Botany</i> , 2019, 124, 41-52.	2.9	34
38	Joint species distribution modelling for spatio-temporal occurrence and ordinal abundance data. <i>Global Ecology and Biogeography</i> , 2018, 27, 142-155.	5.8	33
39	Local and systemic transcriptome responses to herbivory and jasmonic acid in <i>Populus</i> . <i>Tree Genetics and Genomes</i> , 2009, 5, 459-474.	1.6	30
40	Specificity of Phenolic Glycoside Induction in Willow Seedlings (<i>Salix sericea</i>) in Response to Herbivory. <i>Journal of Chemical Ecology</i> , 2006, 32, 2647-2656.	1.8	28
41	Cues from a specialist herbivore increase tolerance to defoliation in tomato. <i>Functional Ecology</i> , 2014, 28, 395-401.	3.6	27
42	Vascular Constraints and Long Distance Transport in Dicots. , 2005, , 355-371.		26
43	Nest Hydrocarbons as Cues for Philopatry in a Paper Wasp.. <i>Ethology</i> , 2005, 111, 469-477.	1.1	22
44	Changes in Tea Plant Secondary Metabolite Profiles as a Function of Leafhopper Density and Damage. <i>Frontiers in Plant Science</i> , 2020, 11, 636.	3.6	21
45	Use of gaseous ¹³ NH ₃ administered to intact leaves of <i>Nicotiana tabacum</i> to study changes in nitrogen utilization during defence induction. <i>Plant, Cell and Environment</i> , 2010, 33, 2173-2179.	5.7	20
46	Transient abiotic stresses lead to latent defense and reproductive responses over the <i>Brassica rapa</i> life cycle. <i>Chemoecology</i> , 2012, 22, 239-250.	1.1	20
47	Using hybrid systems to explore the evolution of tolerance to damage. <i>Evolutionary Ecology</i> , 2000, 14, 509-521.	1.2	19
48	Two invasive herbivores on a shared host: patterns and consequences of phytohormone induction. <i>Oecologia</i> , 2018, 186, 973-982.	2.0	19
49	Examining the Role of Cuticular Hydrocarbons in Firefly Species Recognition. <i>Ethology</i> , 2008, 114, 916-924.	1.1	17
50	¹⁵ N partitioning in tomato: vascular constraints versus tissue demand. <i>Functional Plant Biology</i> , 2006, 33, 457.	2.1	15
51	Chronic impacts of invasive herbivores on a foundational forest species: a whole-tree perspective. <i>Ecology</i> , 2018, 99, 1783-1791.	3.2	15
52	Failure under stress: the effect of the exotic herbivore <i>Adelges tsugae</i> on biomechanics of <i>Tsuga canadensis</i> . <i>Annals of Botany</i> , 2014, 113, 721-730.	2.9	13
53	Asymmetric biotic interactions and abiotic niche differences revealed by a dynamic joint species distribution model. <i>Ecology</i> , 2018, 99, 1018-1023.	3.2	13
54	Associational resistance to a tropical leaf-miner: does neighbour identity matter?. <i>Journal of Tropical Ecology</i> , 2009, 25, 551-554.	1.1	11

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55	Modeling the influence of differential sectoriality on the photosynthetic responses of understory saplings to patchy light and water availability. <i>Trees - Structure and Function</i> , 2011, 25, 833-845.	1.9	11
56	How slug herbivory of juvenile hybrid willows alters chemistry, growth and subsequent susceptibility to diverse plant enemies. <i>Annals of Botany</i> , 2013, 112, 757-765.	2.9	11
57	Competitor avoidance drives within-host feeding site selection in a passively dispersed herbivore. <i>Ecological Entomology</i> , 2014, 39, 10-16.	2.2	10
58	Contrasting effects of two exotic invasive hemipterans on whole-plant resource allocation in a declining conifer. <i>Entomologia Experimentalis Et Applicata</i> , 2015, 157, 86-97.	1.4	10
59	Conifer responses to a stylet-feeding invasive herbivore and induction with methyl jasmonate: impact on the expression of induced defences and a native folivore. <i>Agricultural and Forest Entomology</i> , 2019, 21, 227-234.	1.3	10
60	Is Agricultural Emissions Mitigation on the Menu for Tea Drinkers?. <i>Sustainability</i> , 2019, 11, 4883.	3.2	10
61	2014-2016 seasonal rainfall effects on metals in tea (<i>Camelia sinensis</i> (L.) Kuntze). <i>Chemosphere</i> , 2019, 219, 796-803.	8.2	10
62	From plants to herbivores: novel insights into the ecological and evolutionary consequences of plant variation. <i>Oecologia</i> , 2018, 187, 357-360.	2.0	9
63	Facilitation between invasive herbivores: hemlock woolly adelgid increases gypsy moth preference for and performance on eastern hemlock. <i>Ecological Entomology</i> , 2020, 45, 416-422.	2.2	9
64	Editorial: Responses of Tea Plants to Climate Change: From Molecules to Ecosystems. <i>Frontiers in Plant Science</i> , 2020, 11, 594317.	3.6	6
65	Differing non-linear, lagged effects of temperature and precipitation on an insect herbivore and its host plant. <i>Ecological Entomology</i> , 2021, 46, 866-876.	2.2	5
66	Patchy nitrate promotes inter-sector flow and 15N allocation in <i>Ocimum basilicum</i> : a model and an experiment. <i>Functional Plant Biology</i> , 2011, 38, 879.	2.1	4
67	Individual and non-additive effects of exotic sap-feeders on root functional and mycorrhizal traits of a shared conifer host. <i>Functional Ecology</i> , 2017, 31, 2024-2033.	3.6	4
68	Does mycorrhizal status alter herbivore-induced changes in whole-plant resource partitioning?. <i>AoB PLANTS</i> , 2018, 10, plx071.	2.3	4
69	Differential Changes in Tea Quality as Influenced by Insect Herbivory. , 2018, , 217-240.		4
70	Partial defoliation and hydraulic integration in <i>Ocimum basilicum</i> (Lamiaceae): Testing a model for sectored xylem flow using ¹⁵ N labeling. <i>American Journal of Botany</i> , 2011, 98, 1816-1824.	1.7	3
71	Seasonal variation in effects of herbivory on foliar nitrogen of a threatened conifer. <i>AoB PLANTS</i> , 2017, 9, plx007.	2.3	2
72	Impact of chronic stylet-feeder infestation on folivore-induced signaling and defenses in a conifer. <i>Tree Physiology</i> , 2021, 41, 416-427.	3.1	2

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73	Does the differential seedling mortality caused by slugs alter the foliar traits and subsequent susceptibility of hybrid willows to a generalist herbivore?. <i>Ecological Entomology</i> , 2007, 32, 070130195410003-???.	2.2	1
74	Seasonal changes in eastern hemlock (<i>Tsuga canadensis</i>) foliar chemistry. <i>Canadian Journal of Forest Research</i> , 2020, 50, 557-564.	1.7	0