

John J Couture

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9471825/publications.pdf>

Version: 2024-02-01

38
papers

1,368
citations

331259

21
h-index

360668

35
g-index

39
all docs

39
docs citations

39
times ranked

1737
citing authors

#	ARTICLE	IF	CITATIONS
1	Associations of Leaf Spectra with Genetic and Phylogenetic Variation in Oaks: Prospects for Remote Detection of Biodiversity. <i>Remote Sensing</i> , 2016, 8, 221.	1.8	132
2	Foliar functional traits from imaging spectroscopy across biomes in eastern North America. <i>New Phytologist</i> , 2020, 228, 494-511.	3.5	109
3	Plant-associated bacteria degrade defense chemicals and reduce their adverse effects on an insect defoliator. <i>Oecologia</i> , 2014, 175, 901-910.	0.9	106
4	Mapping foliar functional traits and their uncertainties across three years in a grassland experiment. <i>Remote Sensing of Environment</i> , 2019, 221, 405-416.	4.6	89
5	Spectroscopic determination of ecologically relevant plant secondary metabolites. <i>Methods in Ecology and Evolution</i> , 2016, 7, 1402-1412.	2.2	88
6	Hyperspectral Measurements Enable Pre-Symptomatic Detection and Differentiation of Contrasting Physiological Effects of Late Blight and Early Blight in Potato. <i>Remote Sensing</i> , 2020, 12, 286.	1.8	88
7	Increased nitrogen availability influences predator-prey interactions by altering host-plant quality. <i>Chemoecology</i> , 2010, 20, 277-284.	0.6	55
8	Atmospheric change alters foliar quality of host trees and performance of two outbreak insect species. <i>Oecologia</i> , 2012, 168, 863-876.	0.9	48
9	Integrating Spectroscopy with Potato Disease Management. <i>Plant Disease</i> , 2018, 102, 2233-2240.	0.7	45
10	Spectroscopic sensitivity of real-time, rapidly induced phytochemical change in response to damage. <i>New Phytologist</i> , 2013, 198, 311-319.	3.5	43
11	Spectral Phenotyping of Physiological and Anatomical Leaf Traits Related with Maize Water Status. <i>Plant Physiology</i> , 2020, 184, 1363-1377.	2.3	38
12	Elevated temperature and periodic water stress alter growth and quality of common milkweed (<i>Asclepias syriaca</i>) and monarch (<i>Danaus plexippus</i>) larval performance. <i>Arthropod-Plant Interactions</i> , 2015, 9, 149-161.	0.5	37
13	Influence of Genotype, Environment, and Gypsy Moth Herbivory on Local and Systemic Chemical Defenses in Trembling Aspen (<i>Populus tremuloides</i>). <i>Journal of Chemical Ecology</i> , 2015, 41, 651-661.	0.9	36
14	Using foliar spectral properties to assess the effects of drought on plant water potential. <i>Tree Physiology</i> , 2017, 37, 1582-1591.	1.4	36
15	Atmospheric change alters performance of an invasive forest insect. <i>Global Change Biology</i> , 2012, 18, 3543-3557.	4.2	35
16	Rapid phytochemical analysis of birch (<i>Betula</i>) and poplar (<i>Populus</i>) foliage by near-infrared reflectance spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 1333-1344.	1.9	34
17	Remote spectral detection of biodiversity effects on forest biomass. <i>Nature Ecology and Evolution</i> , 2021, 5, 46-54.	3.4	33
18	Reflectance spectroscopy: a novel approach to better understand and monitor the impact of air pollution on Mediterranean plants. <i>Environmental Science and Pollution Research</i> , 2018, 25, 8249-8267.	2.7	31

#	ARTICLE	IF	CITATIONS
19	Hyperspectral assessment of plant responses to multi-stress environments: Prospects for managing protected agrosystems. <i>Plants People Planet</i> , 2020, 2, 244-258.	1.6	29
20	Temporal Dynamics of Wheat Blast Epidemics and Disease Measurements Using Multispectral Imagery. <i>Phytopathology</i> , 2020, 110, 393-405.	1.1	27
21	Transgenerational effects of herbivory in a group of long-lived tree species: maternal damage reduces offspring allocation to resistance traits, but not growth. <i>Journal of Ecology</i> , 2013, 101, 1062-1073.	1.9	24
22	Herbivore-mediated material fluxes in a northern deciduous forest under elevated carbon dioxide and ozone concentrations. <i>New Phytologist</i> , 2014, 204, 397-407.	3.5	23
23	Effects of Elevated Atmospheric Carbon Dioxide and Tropospheric Ozone on Phytochemical Composition of Trembling Aspen (<i>Populus tremuloides</i>) and Paper Birch (<i>Betula papyrifera</i>). <i>Journal of Chemical Ecology</i> , 2017, 43, 26-38.	0.9	22
24	The demographic effects of functional traits: an integral projection model approach reveals population-level consequences of reproduction-defence trade-offs. <i>Ecology Letters</i> , 2019, 22, 1396-1406.	3.0	21
25	Spectroscopic Determination of Leaf Nitrogen Concentration and Mass Per Area in Sweet Corn and Snap Bean. <i>Agronomy Journal</i> , 2016, 108, 2519-2526.	0.9	17
26	Fidelity and Timing of Spotted Lanternfly (Hemiptera: Fulgoridae) Attack Patterns on Ornamental Trees in the Suburban Landscape. <i>Environmental Entomology</i> , 2020, 49, 1427-1436.	0.7	16
27	Atmospheric change alters frass quality of forest canopy herbivores. <i>Arthropod-Plant Interactions</i> , 2014, 8, 33-47.	0.5	14
28	Phytochemical traits underlie genotypic variation in susceptibility of quaking aspen (<i>Populus</i>) to herbivory. <i>Overlook</i> , 2010, 10, 50-53.	1.9	13
29	Vernal freeze damage and genetic variation alter tree growth, chemistry, and insect interactions. <i>Plant, Cell and Environment</i> , 2017, 40, 2743-2753.	2.8	13
30	Elevated carbon dioxide and ozone have weak, idiosyncratic effects on herbivorous forest insect abundance, species richness, and community composition. <i>Insect Conservation and Diversity</i> , 2014, 7, 553-562.	1.4	11
31	Water stress rather than N addition mitigates impacts of elevated O ₃ on foliar chemical profiles in poplar saplings. <i>Science of the Total Environment</i> , 2020, 707, 135935.	3.9	11
32	Intraspecific competition reduces plant size and quality and damage severity increases defense responses in the herbaceous perennial, <i>Asclepias syriaca</i> . <i>Plant Ecology</i> , 2020, 221, 421-430.	0.7	11
33	Spectral characterization of wheat functional trait responses to Hessian fly: Mechanisms for trait-based resistance. <i>PLoS ONE</i> , 2019, 14, e0219431.	1.1	10
34	Impacts of Atmospheric Change on Tree-Arthropod Interactions. <i>Developments in Environmental Science</i> , 2013, 13, 227-248.	0.5	8
35	Fine-scale spatial structuring of genotypes and phenotypes in natural populations of <i>Asclepias syriaca</i> . <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2020, 45, 125546.	1.1	5
36	Agronomic management of industrial hemp alters foliar traits and herbivore performance. <i>Arthropod-Plant Interactions</i> , 2021, 15, 137-151.	0.5	5

#	ARTICLE	IF	CITATIONS
37	Incorporating Multi-Scale, Spectrally Detected Nitrogen Concentrations into Assessing Nitrogen Use Efficiency for Winter Wheat Breeding Populations. <i>Remote Sensing</i> , 2021, 13, 3991.	1.8	4
38	Range-wide variations in common milkweed traits and their effect on monarch larvae. <i>American Journal of Botany</i> , 2021, 108, 388-401.	0.8	1