

Kolby J Jardine

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

2,135
citations

218677

26
h-index

243625

44
g-index

60
all docs

60
docs citations

60
times ranked

2958
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Atmospheric Cleansing of Oxidized Organic Trace Gases by Vegetation. <i>Science</i> , 2010, 330, 816-819.	12.6	213
2	The Green Ocean Amazon Experiment (GoAmazon2014/5) Observes Pollution Affecting Gases, Aerosols, Clouds, and Rainfall over the Rain Forest. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 981-997.	3.3	128
3	The bi-directional exchange of oxygenated VOCs between a loblolly pine (<i>Pinus Tj ETQq1 1 0.784314 rgBT /Overlo 3015-3031.	4.9	109
4	Within-plant isoprene oxidation confirmed by direct emissions of oxidation products methyl vinyl ketone and methacrolein. <i>Global Change Biology</i> , 2012, 18, 973-984.	9.5	107
5	Bidirectional exchange of biogenic volatiles with vegetation: emission sources, reactions, breakdown and deposition. <i>Plant, Cell and Environment</i> , 2014, 37, 1790-1809.	5.7	107
6	Atmospheric benzenoid emissions from plants rival those from fossil fuels. <i>Scientific Reports</i> , 2015, 5, 12064.	3.3	104
7	Chemical sensing of plant stress at the ecosystem scale. <i>Biogeosciences</i> , 2008, 5, 1287-1294.	3.3	93
8	Diel and seasonal changes of biogenic volatile organic compounds within and above an Amazonian rainforest. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 3359-3378.	4.9	83
9	Volatile organic compound emissions from <i>Larrea tridentata</i> (creosotebush). <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 12191-12206.	4.9	73
10	Within-canopy sesquiterpene ozonolysis in Amazonia. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	73
11	Emissions of putative isoprene oxidation products from mango branches under abiotic stress. <i>Journal of Experimental Botany</i> , 2013, 64, 3669-3679.	4.8	72
12	Highly reactive light-dependent monoterpenes in the Amazon. <i>Geophysical Research Letters</i> , 2015, 42, 1576-1583.	4.0	71
13	Gas Phase Measurements of Pyruvic Acid and Its Volatile Metabolites. <i>Environmental Science & Technology</i> , 2010, 44, 2454-2460.	10.0	63
14	Dimethyl sulfide in the Amazon rain forest. <i>Global Biogeochemical Cycles</i> , 2015, 29, 19-32.	4.9	58
15	Seasonality of isoprenoid emissions from a primary rainforest in central Amazonia. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 3903-3925.	4.9	52
16	Monoterpene <i>thermometer</i>™ of tropical forest atmosphere response to climate warming. <i>Plant, Cell and Environment</i> , 2017, 40, 441-452.	5.7	52
17	Plant physiological and environmental controls over the exchange of acetaldehyde between forest canopies and the atmosphere. <i>Biogeosciences</i> , 2008, 5, 1559-1572.	3.3	49
18	Dry and hot: the hydraulic consequences of a climate change-type drought for Amazonian trees. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20180209.	4.0	49

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19	Green leaf volatiles and oxygenated metabolite emission bursts from mesquite branches following lightâ€“dark transitions. <i>Photosynthesis Research</i> , 2012, 113, 321-333.	2.9	46
20	Dynamic Balancing of Isoprene Carbon Sources Reflects Photosynthetic and Photorespiratory Responses to Temperature Stress. <i>Plant Physiology</i> , 2014, 166, 2051-2064.	4.8	41
21	Green Leaf Volatile Emissions during High Temperature and Drought Stress in a Central Amazon Rainforest. <i>Plants</i> , 2015, 4, 678-690.	3.5	41
22	Ecosystem-scale compensation points of formic and acetic acid in the central Amazon. <i>Biogeosciences</i> , 2011, 8, 3709-3720.	3.3	36
23	Effects of light and temperature on isoprene emission at different leaf developmental stages of <i>eschweilera coriacea</i> in central Amazon. <i>Acta Amazonica</i> , 2014, 44, 9-18.	0.7	36
24	Carbon isotope analysis of acetaldehyde emitted from leaves following mechanical stress and anoxia. <i>Plant Biology</i> , 2009, 11, 591-597.	3.8	33
25	Dynamic Solution Injection: a new method for preparing pptvâ€“ppbv standard atmospheres of volatile organic compounds. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 1569-1576.	3.1	33
26	Methanol and isoprene emissions from the fast growing tropical pioneer species <i>Vismia guianensis</i> (Aubl.) Pers. (Hypericaceae) in the central Amazon forest. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 6441-6452.	4.9	31
27	Intermediate-scale horizontal isoprene concentrations in the near-canopy forest atmosphere and implications for emission heterogeneity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19318-19323.	7.1	28
28	Integration of C1 and C2 Metabolism in Trees. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2045.	4.1	25
29	A reporting format for leaf-level gas exchange data and metadata. <i>Ecological Informatics</i> , 2021, 61, 101232.	5.2	22
30	Leaf isoprene and monoterpene emission distribution across hyperdominant tree genera in the Amazon basin. <i>Phytochemistry</i> , 2020, 175, 112366.	2.9	21
31	Stimulation of isoprene emissions and electron transport rates as key mechanisms of thermal tolerance in the tropical species <i>Vismia guianensis</i> . <i>Global Change Biology</i> , 2020, 26, 5928-5941.	9.5	20
32	A metadata reporting framework (FRAMES) for synthesis of ecohydrological observations. <i>Ecological Informatics</i> , 2017, 42, 148-158.	5.2	18
33	Phylogenetic biosynthesis and emission of methyl acetate. <i>Plant, Cell and Environment</i> , 2014, 37, 414-424.	5.7	17
34	Species-Specific Shifts in Diurnal Sap Velocity Dynamics and Hysteretic Behavior of Ecophysiological Variables During the 2015â€“2016 El NiÃ±o Event in the Amazon Forest. <i>Frontiers in Plant Science</i> , 2019, 10, 830.	3.6	17
35	Stability of tropical forest tree carbonâ€“water relations in a rainfall exclusion treatment through shifts in effective water uptake depth. <i>Global Change Biology</i> , 2021, 27, 6454-6466.	9.5	17
36	Below versus above Ground Plant Sources of Abscisic Acid (ABA) at the Heart of Tropical Forest Response to Warming. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2023.	4.1	14

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37	Precipitation mediates sap flux sensitivity to evaporative demand in the neotropics. <i>Oecologia</i> , 2019, 191, 519-530.	2.0	14
38	Reassimilation of Leaf Internal CO ₂ Contributes to Isoprene Emission in the Neotropical Species <i>Inga edulis</i> Mart.. <i>Forests</i> , 2019, 10, 472.	2.1	13
39	Volatile monoterpene "fingerprints"™ of resinous <i>Protium</i> tree species in the Amazon rainforest. <i>Phytochemistry</i> , 2019, 160, 61-70.	2.9	8
40	Cell wall O-acetyl and methyl esterification patterns of leaves reflected in atmospheric emission signatures of acetic acid and methanol. <i>PLoS ONE</i> , 2020, 15, e0227591.	2.5	8
41	High Temperature Acclimation of Leaf Gas Exchange, Photochemistry, and Metabolomic Profiles in <i>Populus trichocarpa</i> . <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1813-1828.	2.7	7
42	Do Cell Wall Esters Facilitate Forest Response to Climate?. <i>Trends in Plant Science</i> , 2020, 25, 729-732.	8.8	5
43	Soil moisture thresholds explain a shift from light-limited to water-limited sap velocity in the Central Amazon during the 2015-16 El Niño drought. <i>Environmental Research Letters</i> , 2022, 17, 064023.	5.2	5
44	Near-canopy horizontal concentration heterogeneity of semivolatile oxygenated organic compounds and implications for 2-methyltetrols primary emissions. <i>Environmental Science Atmospheres</i> , 2021, 1, 8-20.	2.4	4
45	Dry Season Transpiration and Soil Water Dynamics in the Central Amazon. <i>Frontiers in Plant Science</i> , 2022, 13, 825097.	3.6	4
46	Are Methanol-Derived Foliar Methyl Acetate Emissions a Tracer of Acetate-Mediated Drought Survival in Plants?. <i>Plants</i> , 2021, 10, 411.	3.5	3
47	Canopy Position Influences the Degree of Light Suppression of Leaf Respiration in Abundant Tree Genera in the Amazon Forest. <i>Frontiers in Forests and Global Change</i> , 2021, 4, .	2.3	3
48	Biogenic Volatile Organic Compounds in Amazonian Forest Ecosystems. <i>Ecological Studies</i> , 2016, , 19-33.	1.2	3
49	Development of a portable leaf photosynthesis and volatile organic compounds emission system. <i>MethodsX</i> , 2020, 7, 100880.	1.6	2
50	Stem respiration and growth in a central Amazon rainforest. <i>Trees - Structure and Function</i> , 2022, 36, 991-1004.	1.9	2
51	Diurnal Pattern of Leaf, Flower and Fruit Specific Ambient Volatiles above an Oil Palm Plantation in Pará State, Brazil. <i>Journal of the Brazilian Chemical Society</i> , 2016, , .	0.6	1
52	Title is missing!. , 2020, 15, e0227591.		0
53	Title is missing!. , 2020, 15, e0227591.		0
54	Title is missing!. , 2020, 15, e0227591.		0

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55	Title is missing!. , 2020, 15, e0227591.		0