

Peter C Harley

List of Publications by Citations

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31
papers

7,629
citations

25
h-index

31
g-index

31
ext. papers

8,274
ext. citations

5.9
avg, IF

4.89
L-index

#	Paper	IF	Citations
31	A global model of natural volatile organic compound emissions. <i>Journal of Geophysical Research</i> , 1995 , 100, 8873		3022
30	Isoprene and monoterpene emission rate variability: Model evaluations and sensitivity analyses. <i>Journal of Geophysical Research</i> , 1993 , 98, 12609		1143
29	Theoretical Considerations when Estimating the Mesophyll Conductance to CO(2) Flux by Analysis of the Response of Photosynthesis to CO(2). <i>Plant Physiology</i> , 1992 , 98, 1429-36	6.6	639
28	Natural emissions of non-methane volatile organic compounds, carbon monoxide, and oxides of nitrogen from North America. <i>Atmospheric Environment</i> , 2000 , 34, 2205-2230	5.3	524
27	Estimation of Mesophyll Conductance to CO(2) Flux by Three Different Methods. <i>Plant Physiology</i> , 1992 , 98, 1437-43	6.6	338
26	An improved model of C3 photosynthesis at high CO2: Reversed O 2 sensitivity explained by lack of glycerate reentry into the chloroplast. <i>Photosynthesis Research</i> , 1991 , 27, 169-78	3.7	211
25	Ecological and evolutionary aspects of isoprene emission from plants. <i>Oecologia</i> , 1999 , 118, 109-123	2.9	193
24	Isoprene emission estimates and uncertainties for the central African EXPRESSO study domain. <i>Journal of Geophysical Research</i> , 1999 , 104, 30625-30639		180
23	Emission of 2-methyl-3-buten-2-ol by pines: A potentially large natural source of reactive carbon to the atmosphere. <i>Journal of Geophysical Research</i> , 1998 , 103, 25479-25486		160
22	Climatic influences on net ecosystem CO2 exchange during the transition from wintertime carbon source to springtime carbon sink in a high-elevation, subalpine forest. <i>Oecologia</i> , 2005 , 146, 130-47	2.9	152
21	Sesquiterpene emissions from pine trees—identifications, emission rates and flux estimates for the contiguous United States. <i>Environmental Science & Technology</i> , 2007 , 41, 1545-53	10.3	128
20	Isoprene fluxes measured by enclosure, relaxed eddy accumulation, surface layer gradient, mixed layer gradient, and mixed layer mass balance techniques. <i>Journal of Geophysical Research</i> , 1996 , 101, 18555-18567		126
19	Isoprene emission capacity for US tree species. <i>Atmospheric Environment</i> , 2001 , 35, 3341-3352	5.3	87
18	Variation in potential for isoprene emissions among Neotropical forest sites. <i>Global Change Biology</i> , 2004 , 10, 630-650	11.4	80
17	Bidirectional exchange of biogenic volatiles with vegetation: emission sources, reactions, breakdown and deposition. <i>Plant, Cell and Environment</i> , 2014 , 37, 1790-809	8.4	79
16	Ecosystem-scale volatile organic compound fluxes during an extreme drought in a broadleaf temperate forest of the Missouri Ozarks (central USA). <i>Global Change Biology</i> , 2015 , 21, 3657-74	11.4	59
15	Flux estimates and OH reaction potential of reactive biogenic volatile organic compounds (BVOCs) from a mixed northern hardwood forest. <i>Atmospheric Environment</i> , 2007 , 41, 5479-5495	5.3	57

14	Ozarks Isoprene Experiment (OZIE): Measurements and modeling of the Isoprene volcano <i>Journal of Geophysical Research</i> , 2005 , 110,		51
13	Effects of growth under elevated UV-B on photosynthesis and isoprene emission in <i>Quercus gambelii</i> and <i>Mucuna pruriens</i> . <i>Global Change Biology</i> , 1996 , 2, 149-154	11.4	51
12	Gas phase measurements of pyruvic acid and its volatile metabolites. <i>Environmental Science & Technology</i> , 2010 , 44, 2454-60	10.3	49
11	Global Organic Emissions from Vegetation. <i>Advances in Global Change Research</i> , 2004 , 115-170	1.2	49
10	Evaluation of forest canopy models for estimating isoprene emissions. <i>Journal of Geophysical Research</i> , 1996 , 101, 22787-22797		48
9	Undisturbed and disturbed above canopy ponderosa pine emissions: PTR-TOF-MS measurements and MEGAN 2.1 model results. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 11935-11947	6.8	42
8	Micrometeorological and leaf-level measurements of isoprene emissions from a southern African savanna. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		35
7	Observations and models of emissions of volatile terpenoid compounds from needles of ponderosa pine trees growing in situ: control by light, temperature and stomatal conductance. <i>Oecologia</i> , 2014 , 176, 35-55	2.9	33
6	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	0.8	25
5	Leaf level emission measurement of sesquiterpenes and oxygenated sesquiterpenes from desert shrubs and temperate forest trees using a liquid extraction technique. <i>Geochemical Journal</i> , 2009 , 43, 179-189	0.9	16
4	Nutritional and developmental influences on components of rice crop light use efficiency. <i>Agricultural and Forest Meteorology</i> , 2016 , 223, 1-16	5.8	15
3	Reduction of isoprene emissions from live oak (<i>Quercus fusiformis</i>) with oak wilt. <i>Tree Physiology</i> , 2000 , 20, 1199-1203	4.2	14
2	Leaf enclosure measurements for determining volatile organic compound emission capacity from <i>Cannabis</i> spp.. <i>Atmospheric Environment</i> , 2019 , 199, 80-87	5.3	13
1	Large drought-induced variations in oak leaf volatile organic compound emissions during PINOT NOIR 2012. <i>Chemosphere</i> , 2016 , 146, 8-21	8.4	10