JÃ–rg-Peter Schnitzler

List of Publications by Year
in descending order

171	10,711	23500 58	40881 93
papers	citations	h-index	g-index

184	184	184	9119
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Abiotic stresses and induced BVOCs. Trends in Plant Science, 2010, 15, 154-166.	4.3	833
2	Practical approaches to plant volatile analysis. Plant Journal, 2006, 45, 540-560.	2.8	494
3	Biogenic volatile emissions from the soil. Plant, Cell and Environment, 2014, 37, 1866-1891.	2.8	294
4	Transgenic, non-isoprene emitting poplars donâ€™t like it hot. Plant Journal, 2007, 51, 485-499.	2.8	229
5	Volatile signalling by sesquiterpenes from ectomycorrhizal fungi reprogrammes root architecture. Nature Communications, 2015, 6, 6279.	5.8	211
6	Monoterpenes Support Systemic Acquired Resistance within and between Plants. Plant Cell, 2017, 29, 1440-1459.	3.1	184
7	Tissue localization of u.v.â€Bâ€screening pigments and of chalcone synthase mRNA in needles of Scots pine seedlings. New Phytologist, 1996, 132, 247-258.	3.5	180
8	Plant volatiles and the environment. Plant, Cell and Environment, 2014, 37, 1905-1908.	2.8	174
9	Determination of <i>de novo</i> and pool emissions of terpenes from four common boreal/alpine trees by ¹³CO₂ labelling and PTRâ€MS analysis. Plant, Cell and Environment, 2010, 33, 781-792.	2.8	169
10	Isoprene emission is not temperatureâ€dependent during and after severe droughtâ€stress: a physiological and biochemical analysis. Plant Journal, 2008, 55, 687-697.	2.8	154
11	Deoxyxylulose 5-Phosphate Synthase Controls Flux through the Methylerythritol 4-Phosphate Pathway in Arabidopsis. Plant Physiology, 2014, 165, 1488-1504.	2.3	154
12	Volatile profiles of fungi â€“ Chemotyping of species and ecological functions. Fungal Genetics and Biology, 2013, 54, 25-33.	0.9	150
13	Pathway analysis of the transcriptome and metabolome of salt sensitive and tolerant poplar species reveals evolutionary adaption of stress tolerance mechanisms. BMC Plant Biology, 2010, 10, 150.	1.6	141
14	Isoprene synthase activity and its relation to isoprene emission inQuercus roburL. leaves. Plant, Cell and Environment, 1999, 22, 495-504.	2.8	135
15	Monoterpene emission and monoterpene synthase activities in the Mediterranean evergreen oak Quercus ilex L. grown at elevated CO2 concentrations. Global Change Biology, 2001, 7, 709-717.	4.2	135
16	Contribution of Different Carbon Sources to Isoprene Biosynthesis in Poplar Leaves. Plant Physiology, 2004, 135, 152-160.	2.3	133
17	Isoprene interferes with the attraction of bodyguards by herbaceous plants. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17430-17435.	3.3	129
18	Diurnal and Seasonal Variation of Isoprene Biosynthesis-Related Genes in Grey Poplar Leaves. Plant Physiology, 2005, 139, 474-484.	2.3	127

#	Article	IF	Citations
19	Metabolic Flux Analysis of Plastidic Isoprenoid Biosynthesis in Poplar Leaves Emitting and Nonemitting Isoprene Â. Plant Physiology, 2014, 165, 37-51.	2.3	124
20	Why only some plants emit isoprene. Plant, Cell and Environment, 2013, 36, 503-516.	2.8	116
21	Modeling the isoprene emission rate from leaves. New Phytologist, 2012, 195, 541-559.	3.5	111
22	Processâ€based modelling of isoprene emission by oak leaves. Plant, Cell and Environment, 2000, 23, 585-595.	2.8	104
23	Two Herbivore-Induced Cytochrome P450 Enzymes CYP79D6 and CYP79D7 Catalyze the Formation of Volatile Aldoximes Involved in Poplar Defense Â. Plant Cell, 2013, 25, 4737-4754.	3.1	104
24	Volatile organic compounds as non-invasive markers for plant phenotyping. Journal of Experimental Botany, 2015, 66, 5403-5416.	2.4	103
25	Biosynthesis of p-hydroxybenzoic acid in elicitor-treated carrot cell cultures. Planta, 1992, 188, 594-600.	1.6	102
26	Structure of Isoprene Synthase Illuminates the Chemical Mechanism of Teragram Atmospheric Carbon Emission. Journal of Molecular Biology, 2010, 402, 363-373.	2.0	101
27	Nitrogen uptake and metabolism inPopulusÂÃ—Âcanescensas affected by salinity. New Phytologist, 2007, 173, 279-293.	3.5	100
28	Comparison of Isoprene Emission, Intercellular Isoprene Concentration and Photosynthetic Performance in Water-Limited Oak (Quercus pubescensWilld. andQuercus roburL.) Saplings. Plant Biology, 2002, 4, 456-463.	1.8	99
29	Interaction of nitrogen nutrition and salinity in Grey poplar (Populus tremulaï¿½×alba). Plant, Cell and Environment, 2007, 30, 796-811.	2.8	99
30	Circadian Rhythms of Isoprene Biosynthesis in Grey Poplar Leaves. Plant Physiology, 2007, 143, 540-551.	2.3	98
31	Methane formation in aerobic environments. Environmental Chemistry, 2009, 6, 459.	0.7	96
32	Seasonal Pattern of Isoprene Synthase Activity in <i>Quercus robur</i> Leaves and its Significance for Modeling Isoprene Emission Rates. Botanica Acta, 1997, 110, 240-243.	1.6	94
33	Xylemâ€transported glucose as an additional carbon source for leaf isoprene formation in Quercus robur. New Phytologist, 2002, 156, 171-178.	3.5	87
34	Photosynthesis and substrate supply for isoprene biosynthesis in poplar leaves. Atmospheric Environment, 2006, 40, 138-151.	1.9	85
35	Arabidopsis, a Model to Study Biological Functions of Isoprene Emission?. Plant Physiology, 2007, 144, 1066-1078.	2.3	85
36	Salt stress induces the formation of a novel type of â€˜pressure woodâ€™ in two <i>Populus</i> species. New Phytologist, 2012, 194, 129-141.	3.5	85

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37	Systemic acquired resistance networks amplify airborne defense cues. Nature Communications, 2019, 10, 3813.	5.8	85
38	Seasonal pattern of monoterpene synthase activities in leaves of the evergreen tree Quercus ilex. Physiologia Plantarum, 2002, 114, 354-360.	2.6	84
39	Biosynthesis of Organic Compounds Emitted by Plants. Plant Biology, 1999, 1, 149-159.	1.8	83
40	Biochemical properties of isoprene synthase in poplar (Populus Ã— canescens). Planta, 2005, 222, 777-786.	1.6	83
41	Drought reduced monoterpene emissions from the evergreen Mediterranean oak <i>Quercus ilex</i>: results from a throughfall displacement experiment. Biogeosciences, 2009, 6, 1167-1180.	1.3	83
42	Modeling of annual variations of oak (Quercus roburL.) isoprene synthase activity to predict isoprene emission rates. Journal of Geophysical Research, 2001, 106, 3157-3166.	3.3	82
43	Impact of rising CO2 on emissions of volatile organic compounds: isoprene emission from Phragmites australis growing at elevated CO2 in a natural carbon dioxide spring+. Plant, Cell and Environment, 2004, 27, 393-401.	2.8	81
44	Function of defensive volatiles in pedunculate oak (<i>Quercus robur</i>) is tricked by the moth <i>Tortrix viridana</i>. Plant, Cell and Environment, 2012, 35, 2192-2207.	2.8	80
45	Transient Release of Oxygenated Volatile Organic Compounds during Light-Dark Transitions in Grey Poplar Leaves. Plant Physiology, 2004, 135, 1967-1975.	2.3	77
46	Elicitor-Induced Changes in Ca2+ Influx, K+ Efflux, and 4-Hydroxybenzoic Acid Synthesis in Protoplasts of Daucus carota L. Plant Physiology, 1993, 103, 407-412.	2.3	75
47	Mycorrhiza-Triggered Transcriptomic and Metabolomic Networks Impinge on Herbivore Fitness. Plant Physiology, 2018, 176, 2639-2656.	2.3	75
48	Trichoderma Species Differ in Their Volatile Profiles and in Antagonism Toward Ectomycorrhiza Laccaria bicolor. Frontiers in Microbiology, 2019, 10, 891.	1.5	75
49	Seasonal accumulation of ultraviolet-B screening pigments in needles of Norway spruce (Picea abies) Tj ETQq1 1 0.784314 rgBT /Overl	2.8	74
50	Urban stress-induced biogenic VOC emissions and SOA-forming potentials in Beijing. Atmospheric Chemistry and Physics, 2016, 16, 2901-2920.	1.9	74
51	Expression of the Arabidopsis Mutant <i>abi1</i> Gene Alters Abscisic Acid Sensitivity, Stomatal Development, and Growth Morphology in Gray Poplars. Plant Physiology, 2009, 151, 2110-2119.	2.3	72
52	RNAi-mediated suppression of isoprene emission in poplar transiently impacts phenolic metabolism under high temperature and high light intensities: a transcriptomic and metabolomic analysis. Plant Molecular Biology, 2010, 74, 61-75.	2.0	71
53	Isoprene and Î²â€caryophyllene confer plant resistance via different plant internal signalling pathways. Plant, Cell and Environment, 2021, 44, 1151-1164.	2.8	70
54	Monoterpene synthase activities in leaves of Picea abies (L.) Karst. and Quercus ilex L.. Phytochemistry, 2000, 54, 257-265.	1.4	69

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55	RNAi-mediated suppression of isoprene biosynthesis in hybrid poplar impacts ozone tolerance. Tree Physiology, 2009, 29, 725-736.	1.4	69
56	The Venus flytrap attracts insects by the release of volatile organic compounds. Journal of Experimental Botany, 2014, 65, 755-766.	2.4	69
57	<scp>UV</scp>â€<scp>B</scp> mediated metabolic rearrangements in poplar revealed by nonâ€targeted metabolomics. Plant, Cell and Environment, 2015, 38, 892-904.	2.8	69
58	Salt stress affects xylem differentiation of grey poplar (PopulusÂÃ—Âcanescens). Planta, 2009, 229, 299-309.	1.6	68
59	Characterization of an Isoprene Synthase from Leaves ofQuercus petraea(Mattuschka) Liebl.. Botanica Acta, 1996, 109, 216-221.	1.6	67
60	Biogenic Volatile Organic Compound and Respiratory CO2 Emissions after 13C-Labeling: Online Tracing of C Translocation Dynamics in Poplar Plants. PLoS ONE, 2011, 6, e17393.	1.1	67
61	Poplar volatiles â€“ biosynthesis, regulation and (eco)physiology of isoprene and stressâ€induced isoprenoids. Plant Biology, 2010, 12, 302-316.	1.8	65
62	Nonmicrobial aerobic methane emission from poplar shoot cultures under lowâ€light conditions. New Phytologist, 2009, 182, 912-918.	3.5	64
63	Assimilate Transport in the Xylem Sap of Pedunculate Oak (Quercus robur) Saplings. Plant Biology, 2001, 3, 132-138.	1.8	59
64	Regulation of isoprene synthase promoter by environmental and internal factors. Plant Molecular Biology, 2009, 69, 593-604.	2.0	58
65	Diurnal variation of dimethylallyl diphosphate concentrations in oak (Quercus robur) leaves. Physiologia Plantarum, 2002, 115, 190-196.	2.6	55
66	Styrylpyrone biosynthesis in Equisetum arvense. Phytochemistry, 1997, 44, 275-283.	1.4	54
67	Modelling the drought impact on monoterpene fluxes from an evergreen Mediterranean forest canopy. Oecologia, 2009, 160, 213-223.	0.9	54
68	VOC emissions of Grey poplar leaves as affected by salt stress and different N sources. Plant Biology, 2008, 10, 86-96.	1.8	52
69	Enhanced isoprene-related tolerance of heat- and light-stressed photosynthesis at low, but not high, CO2 concentrations. Oecologia, 2011, 166, 273-282.	0.9	51
70	Isoprene emissionâ€free poplars â€“ a chance to reduce the impact from poplar plantations on the atmosphere. New Phytologist, 2012, 194, 70-82.	3.5	50
71	Genetic Manipulation of Isoprene Emissions in Poplar Plants Remodels the Chloroplast Proteome. Journal of Proteome Research, 2014, 13, 2005-2018.	1.8	50
72	Sesquiterpene emissions from Alternaria alternata and Fusarium oxysporum: Effects of age, nutrient availability and co-cultivation. Scientific Reports, 2016, 6, 22152.	1.6	50

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73	Process-based modelling of isoprenoid emissions from evergreen leaves of Quercus ilex (L.). Atmospheric Environment, 2006, 40, 152-165.	1.9	49
74	Land availability and potential biomass production with poplar and willow short rotation coppices in Germany. GCB Bioenergy, 2014, 6, 521-533.	2.5	48
75	Acclimation to heat and droughtâ€"Lessons to learn from the date palm (Phoenix dactylifera). Environmental and Experimental Botany, 2016, 125, 20-30.	2.0	48
76	Isoprene in poplar emissions: effects on new particle formation and OH concentrations. Atmospheric Chemistry and Physics, 2012, 12, 1021-1030.	1.9	47
77	Contribution of Various Carbon Sources Toward Isoprene Biosynthesis in Poplar Leaves Mediated by Altered Atmospheric CO2 Concentrations. PLoS ONE, 2012, 7, e32387.	1.1	47
78	Characterization of poplar metabotypes via mass difference enrichment analysis. Plant, Cell and Environment, 2017, 40, 1057-1073.	2.8	47
79	Origin of volatile organic compound emissions from subarctic tundra under global warming. Global Change Biology, 2020, 26, 1908-1925.	4.2	46
80	Structures of UV-B Induced Sunscreen Pigments of the Scots Pine(Pinus sylvestris L.). Angewandte Chemie International Edition in English, 1995, 34, 312-314.	4.4	45
81	Isoprene function in two contrasting poplars under salt and sunflecks. Tree Physiology, 2013, 33, 562-578.	1.4	45
82	Sniffing fungi â€“ phenotyping of volatile chemical diversity in <i>Trichoderma</i> species. New Phytologist, 2020, 227, 244-259.	3.5	45
83	Leaf isoprene emission as a trait that mediates the growth-defense tradeoff in the face of climate stress. Oecologia, 2021, 197, 885-902.	0.9	45
84	Isoprene emission protects photosynthesis in sunfleck exposed Grey poplar. Photosynthesis Research, 2010, 104, 5-17.	1.6	44
85	S-Nitroso-Proteome in Poplar Leaves in Response to Acute Ozone Stress. PLoS ONE, 2014, 9, e106886.	1.1	44
86	Sesquiterpene volatile organic compounds (VOCs) are markers of elicitation by sulfated laminarine in grapevine. Frontiers in Plant Science, 2015, 6, 350.	1.7	43
87	Effects of heat and drought stress on postâ€illumination bursts of volatile organic compounds in isopreneâ€emitting and nonâ€emitting poplar. Plant, Cell and Environment, 2016, 39, 1204-1215.	2.8	41
88	Increasing atmospheric <scp>CO</scp>₂ reduces metabolic and physiological differences between isopreneâ€and nonâ€isopreneâ€emitting poplars. New Phytologist, 2013, 200, 534-546.	3.5	39
89	Modulation of Protein <i>S</i>-Nitrosylation by Isoprene Emission in Poplar. Plant Physiology, 2016, 170, 1945-1961.	2.3	39
90	Volatile organic compound patterns predict fungal trophic mode and lifestyle. Communications Biology, 2021, 4, 673.	2.0	39

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91	Environmental impacts of bioenergy wood production from poplar shortâ€rotation coppice grown at a marginal agricultural site in Germany. GCB Bioenergy, 2017, 9, 1207-1221.	2.5	38
92	Knocking Down of Isoprene Emission Modifies the Lipid Matrix of Thylakoid Membranes and Influences the Chloroplast Ultrastructure in Poplar. Plant Physiology, 2015, 168, 859-870.	2.3	37
93	Nitric oxide coordinates growth, development, and stress response via histone modification and gene expression. Plant Physiology, 2021, 187, 336-360.	2.3	37
94	Light and temperature, but not UV radiation, affect chlorophylls and carotenoids in Norway spruce needles (Picea abies (L.) Karst.). Plant, Cell and Environment, 2003, 26, 1169-1179.	2.8	36
95	Nitric oxideâ€fixation by nonâ€symbiotic haemoglobin proteins in <i><scp>Arabidopsis thaliana</scp></i> under Nâ€limited conditions. Plant, Cell and Environment, 2017, 40, 36-50.	2.8	36
96	Relationship of isopentenyl diphosphate (IDP) isomerase activity to isoprene emission of oak leaves. Tree Physiology, 2002, 22, 1011-1018.	1.4	35
97	Histochemical analysis of phenylphenalenone-related compounds in Xiphidium caeruleum (Haemodoraceae). Planta, 2003, 216, 881-889.	1.6	35
98	The process-based SIMâ€"BIM model: towards more realistic prediction of isoprene emissions from adult Quercus petraea forest trees. Atmospheric Environment, 2003, 37, 1665-1671.	1.9	35
99	Integrated transcriptomics and metabolomics decipher differences in the resistance of pedunculate oak to the herbivore Tortrix viridanaL.. BMC Genomics, 2013, 14, 737.	1.2	35
100	Chemotypic variation in terpenes emitted from storage pools influences early aphid colonisation on tansy. Scientific Reports, 2016, 6, 38087.	1.6	35
101	The effect of ozone in Scots pine (Pinus sylvestrisL.): gene expression, biochemical changes and interactions with UVâ€B radiation. Plant, Cell and Environment, 2000, 23, 975-982.	2.8	34
102	Facing the Future: Effects of Short-Term Climate Extremes on Isoprene-Emitting and Nonemitting Poplar. Plant Physiology, 2015, 169, 560-575.	2.3	33
103	The diversification of terpene emissions in Mediterranean oaks: lessons from a study of Quercus suber, Quercus canariensis and its hybrid Quercus afares. Tree Physiology, 2012, 32, 1082-1091.	1.4	32
104	Ecotrons: Powerful and versatile ecosystem analysers for ecology, agronomy and environmental science. Global Change Biology, 2021, 27, 1387-1407.	4.2	32
105	High productivity in hybrid-poplar plantations without isoprene emission to the atmosphere. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1596-1605.	3.3	31
106	Interactive effects of ozone and low UV-B radiation on antioxidants in spruce (Picea abies) and pine (Pinus sylvestris) needles. Physiologia Plantarum, 1998, 104, 248-254.	2.6	30
107	Hybridization of European oaks (Quercus ilex x Q. robur) results in a mixed isoprenoid emitter type. Plant, Cell and Environment, 2004, 27, 585-593.	2.8	30
108	Circumvent CO 2 Effects in Volatile-Based Microbeâ€"Plant Interactions. Trends in Plant Science, 2016, 21, 541-543.	4.3	30

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109	Metabotype variation in a field population of tansy plants influences aphid host selection. Plant, Cell and Environment, 2018, 41, 2791-2805.	2.8	30
110	The Systems Architecture of Molecular Memory in Poplar after Abiotic Stress. Plant Cell, 2019, 31, 346-367.	3.1	29
111	Dinitrogen fixation by biological soil crusts in an Inner Mongolian steppe. Biology and Fertility of Soils, 2009, 45, 679-690.	2.3	28
112	Isolation and functional analysis of a cDNA encoding a myrcene synthase from holm oak (Quercus ilex) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.2	27
113	Rapid Responses of Cultured Carrot Cells and Protoplasts to an Elicitor from the Cell Wall of Pythium aphanidermatum (Edson) Fitzp. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1989, 44, 1020-1028.	0.6	26
114	Ecologically Different Fungi Affect Arabidopsis Development: Contribution of Soluble and Volatile Compounds. PLoS ONE, 2016, 11, e0168236.	1.1	26
115	Volatilomics: a non-invasive technique for screening plant phenotypic traits. Plant Methods, 2018, 14, 109.	1.9	26
116	Immunity-associated volatile emissions of Î²-ionone and nonanal propagate defence responses in neighbouring barley plants. Journal of Experimental Botany, 2022, 73, 615-630.	2.4	25
117	Carbon Balance in Leaves of Young Poplar Trees. Plant Biology, 2004, 6, 730-739.	1.8	23
118	The Defense-Related Isoleucic Acid Differentially Accumulates in Arabidopsis Among Branched-Chain Amino Acid-Related 2-Hydroxy Carboxylic Acids. Frontiers in Plant Science, 2018, 9, 766.	1.7	23
119	Physiological responses of date palm (Phoenix dactylifera) seedlings to acute ozone exposure at high temperature. Environmental Pollution, 2018, 242, 905-913.	3.7	23
120	Scaling-up leaf monoterpene emissions from a water limited Quercus ilex woodland. Atmospheric Environment, 2011, 45, 2888-2897.	1.9	22
121	Selected environmental impacts of the technical production of wood chips from poplar short rotation coppice on marginal land. Biomass and Bioenergy, 2016, 85, 235-242.	2.9	22
122	Climate and development modulate the metabolome and antioxidative system of date palm leaves. Journal of Experimental Botany, 2019, 70, 5959-5969.	2.4	21
123	A New Modeling Approach for Estimating Abiotic and Biotic Stress-Induced de novo Emissions of Biogenic Volatile Organic Compounds From Plants. Frontiers in Forests and Global Change, 2019, 2, .	1.0	21
124	Metabolomic adjustments in the orchid mycorrhizal fungus <i>Tulasnella calospora</i> during symbiosis with <i>Serapias vomeracea</i>. New Phytologist, 2020, 228, 1939-1952.	3.5	21
125	Root isoprene formation alters lateral root development. Plant, Cell and Environment, 2020, 43, 2207-2223.	2.8	21
126	Isoprene emission by poplar is not important for the feeding behaviour of poplar leaf beetles. BMC Plant Biology, 2015, 15, 165.	1.6	20

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127	Nitrate leaching and soil nitrous oxide emissions diminish with time in a hybrid poplar shortâ€rotation coppice in southern Germany. GCB Bioenergy, 2017, 9, 613-626.	2.5	20
128	UV-B induction of flavonoid biosynthesis in Scots pine (Pinus sylvestris Lâ€Š.â€Š) seedlings. Trees - Structure and Function, 1997, 11, 162-168.	0.9	19
129	RNAi-mediated downregulation of poplar plasma membrane intrinsic proteins (PIPs) changes plasma membrane proteome composition and affects leaf physiology. Journal of Proteomics, 2015, 128, 321-332.	1.2	19
130	Net ecosystem fluxes and composition of biogenic volatile organic compounds over a maize fieldâ€“interaction of meteorology and phenological stages. GCB Bioenergy, 2017, 9, 1627-1643.	2.5	18
131	VOC emissions and carbon balance of two bioenergy plantations in response to nitrogen fertilization: A comparison of Miscanthus and Salix. Environmental Pollution, 2018, 237, 205-217.	3.7	18
132	Optimization of photosynthesis and stomatal conductance in the date palm <i>Phoenix dactylifera</i> during acclimation to heat and drought. New Phytologist, 2019, 223, 1973-1988.	3.5	18
133	Title is missing!. Journal of Atmospheric Chemistry, 2002, 42, 159-177.	1.4	17
134	Volatile organic compounds in the biosphereâ€“atmosphere system: a preface. Plant Biology, 2008, 10, 2-7.	1.8	17
135	Changes in sulphur metabolism of grey poplar (Populus x canescens) leaves during salt stress: a metabolic link to photorespiration. Tree Physiology, 2010, 30, 1161-1173.	1.4	17
136	Short-Term Exposure to Nitrogen Dioxide Provides Basal Pathogen Resistance. Plant Physiology, 2018, 178, 468-487.	2.3	17
137	Protein expression plasticity contributes to heat and drought tolerance of date palm. Oecologia, 2021, 197, 903-919.	0.9	17
138	Genetic Engineering of BVOC Emissions from Trees. Tree Physiology, 2013, , 95-118.	0.9	17
139	Isoprene enhances leaf cytokinin metabolism and induces early senescence. New Phytologist, 2022, 234, 961-974.	3.5	17
140	Ameliorating effect of UVâ€B radiation on the response of Norway spruce and Scots pine to ambient ozone concentrations. Global Change Biology, 1999, 5, 83-94.	4.2	16
141	Effect of landâ€use change and management on biogenic volatile organic compound emissions â€“ selecting climateâ€smart cultivars. Plant, Cell and Environment, 2015, 38, 1896-1912.	2.8	16
142	Isoprene and Î±-pinene deposition to grassland mesocosms. Plant and Soil, 2017, 410, 313-322.	1.8	16
143	Long-term dynamics of monoterpene synthase activities, monoterpene storage pools and emissions in boreal Scots pine. Biogeosciences, 2018, 15, 5047-5060.	1.3	16
144	Analysis of 1-deoxy-d-xylulose 5-phosphate synthase activity in Grey poplar leaves using isotope ratio mass spectrometry. Phytochemistry, 2010, 71, 918-922.	1.4	15

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145	Effect of plant chemical variation and mutualistic ants on the local population genetic structure of an aphid herbivore. Journal of Animal Ecology, 2019, 88, 1089-1099.	1.3	15
146	Ecology and Evolution of Intraspecific Chemodiversity of Plants. Research Ideas and Outcomes, 0, 6, .	1.0	15
147	Variation in short-term and long-term responses of photosynthesis and isoprenoid-mediated photoprotection to soil water availability in four Douglas-fir provenances. Scientific Reports, 2017, 7, 40145.	1.6	14
148	European oak chemical diversity â€" from ecotypes to herbivore resistance. New Phytologist, 2021, 232, 818-834.	3.5	14
149	Condensed tannins as antioxidants that protect poplar against oxidative stress from drought and UVâ€B. Plant, Cell and Environment, 2022, 45, 362-377.	2.8	14
150	Interâ€•and intraâ€specific variability in isoprene production and photosynthesis of <scp>C</scp>entral <scp>E</scp>uropean oak species. Plant Biology, 2013, 15, 148-156.	1.8	13
151	Phytoglobin overexpression promotes barley growth in the presence of enhanced level of atmospheric nitric oxide. Journal of Experimental Botany, 2019, 70, 4521-4537.	2.4	13
152	Effects of elevated growth temperature and enhanced atmospheric vapour pressure deficit on needle and root terpenoid contents of two Douglas fir provenances. Environmental and Experimental Botany, 2019, 166, 103819.	2.0	13
153	Rapid conversion of isoprene photooxidation products in terrestrial plants. Communications Earth & Environment, 2020, 1, 44.	2.6	13
154	Under fire-simultaneous volatilome and transcriptome analysis unravels fine-scale responses of tansy chemotypes to dual herbivore attack. BMC Plant Biology, 2020, 20, 551.	1.6	12
155	Mycorrhiza-Tree-Herbivore Interactions: Alterations in Poplar Metabolome and Volatilome. Metabolites, 2022, 12, 93.	1.3	12
156	Forest Trees Under Air Pollution as a Factor of Climate Change. Plant Ecophysiology, 2014, , 117-163.	1.5	11
157	Additive effects of plant chemotype, mutualistic ants and predators on aphid performance and survival. Functional Ecology, 2019, 33, 139-151.	1.7	11
158	Modeling the temporal dynamics of monoterpene emission by isotopic labeling in Quercus ilex leaves. Atmospheric Environment, 2010, 44, 392-399.	1.9	10
159	Metabolic responses of date palm (<i>Phoenix dactylifera</i>L.) leaves to drought differ in summer and winter climate. Tree Physiology, 2021, 41, 1685-1700.	1.4	10
160	MOSES: A Novel Observation System to Monitor Dynamic Events across Earth Compartments. Bulletin of the American Meteorological Society, 2022, 103, E339-E348.	1.7	9
161	VOCs - helping trees withstand global change?. New Phytologist, 2002, 155, 197-199.	3.5	8
162	C and N stocks are not impacted by land use change from Brazilian Savanna (Cerrado) to agriculture despite changes in soil fertility and microbial abundances. Journal of Plant Nutrition and Soil Science, 2017, 180, 436-445.	1.1	8

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163	Improving Air Quality by Nitric Oxide Consumption of Climate-Resilient Trees Suitable for Urban Greening. Frontiers in Plant Science, 2020, 11, 549913.	1.7	7
164	Oaks as Beacons of Hope for Threatened Mixed Forests in Central Europe. Frontiers in Forests and Global Change, 2021, 4, .	1.0	7
165	Mass differences in metabolome analyses of untargeted direct infusion ultra-high resolution MS data. , 2019, , 357-405.		6
166	Soil <scp>VOC</scp> emissions of a Mediterranean woodland are sensitive to shrub invasion. Plant Biology, 2022, 24, 967-978.	1.8	5
167	Editorial: Highlights of POG 2019 - Plant Oxygen Group Conference. Frontiers in Plant Science, 2021, 12, 639262.	1.7	2
168	Plant Defense Proteins as Potential Markers for Early Detection of Forest Damage and Diseases. Frontiers in Forests and Global Change, 2021, 4, .	1.0	2
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