Stefan Bartram

List of Publications by Year
in descending order

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38 papers	1,706 citations	304743 22 h-index	289244 40 g-index
41 all docs	41 docs citations	41 times ranked	2200 citing authors

#	Article	IF	Citations
1	A Gene Controlling Variation in Arabidopsis Glucosinolate Composition Is Part of the Methionine Chain Elongation Pathway. Plant Physiology, 2001, 127, 1077-1088.	4.8	233
2	Aphid and Plant Volatiles Induce Oviposition in an Aphidophagous Hoverfly. Journal of Chemical Ecology, 2008, 34, 301-307.	1.8	125
3	The Isogene 1-Deoxy-D-Xylulose 5-Phosphate Synthase 2 Controls Isoprenoid Profiles, Precursor Pathway Allocation, and Density of Tomato Trichomes. Molecular Plant, 2010, 3, 904-916.	8.3	125
4	Biosynthesis of methionine-derived glucosinolates in Arabidopsis thaliana : recombinant expression and characterization of methylthioalkylmalate synthase, the condensing enzyme of the chain-elongation cycle. Planta, 2004, 218, 1026-1035.	3.2	109
5	Dynamic pathway allocation in early terpenoid biosynthesis of stress-induced lima bean leaves. Phytochemistry, 2006, 67, 1661-1672.	2.9	108
6	Chemistry and geographic variation of floral scent in Yucca filamentosa (Agavaceae). American Journal of Botany, 2005, 92, 1624-1631.	1.7	100
7	In Vivo Pyro-SIP Assessing Active Gut Microbiota of the Cotton Leafworm, Spodoptera littoralis. PLoS ONE, 2014, 9, e85948.	2.5	86
8	Testing the optimal defence hypothesis for two indirect defences: extrafloral nectar and volatile organic compounds. Planta, 2008, 228, 449-457.	3.2	83
9	Identification, quantification, spatiotemporal distribution and genetic variation of major latex secondary metabolites in the common dandelion (Taraxacum officinale agg.). Phytochemistry, 2015, 115, 89-98.	2.9	65
10	MAPK-dependent JA and SA signalling in Nicotiana attenuata affects plant growth and fitness during competition with conspecifics. BMC Plant Biology, 2012, 12, 213.	3.6	58
11	Glucosinolate biosynthesis: demonstration and characterization of the condensing enzyme of the chain elongation cycle in Eruca sativa. Phytochemistry, 2004, 65, 1073-1084.	2.9	46
12	Phenylphenalenone-Related Compounds:Â Chemotaxonomic Markers of the Haemodoraceae fromXiphidium caeruleum. Journal of Natural Products, 2002, 65, 1122-1130.	3.0	41
13	De novo biosynthesis versus sequestration: A network of transport systems supports in iridoid producing leaf beetle larvae both modes of defense. Insect Biochemistry and Molecular Biology, 2008, 38, 895-904.	2.7	40
14	Volatile DMNT systemically induces jasmonate-independent direct anti-herbivore defense in leaves of sweet potato (Ipomoea batatas) plants. Scientific Reports, 2019, 9, 17431.	3.3	40
15	Quantification of growthâ€“defense tradeâ€offs in a common currency: nitrogen required for phenolamide biosynthesis is not derived from ribuloseâ€1,5â€bisphosphate carboxylase/oxygenase turnover. Plant Journal, 2013, 75, 417-429.	5.7	39
16	A Gene Controlling Variation in Arabidopsis Glucosinolate Composition Is Part of the Methionine Chain Elongation Pathway. Plant Physiology, 2001, 127, 1077-1088.	4.8	36
17	Do Aphid Colonies Amplify their Emission of Alarm Pheromone?. Journal of Chemical Ecology, 2008, 34, 1149-1152.	1.8	33
18	Reductive dehalogenation of brominated ethenes by Sulfurospirillum multivorans and Desulfitobacterium hafniense PCEâ€S. Environmental Microbiology, 2010, 12, 501-509.	3.8	33

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19	Conservation priorities differ at opposing species borders of a European orchid. Biological Conservation, 2010, 143, 2207-2220.	4.1	30
20	One Pathway Is Not Enough: The Cabbage Stem Flea Beetle Psylliodes chrysocephala Uses Multiple Strategies to Overcome the Glucosinolate-Myrosinase Defense in Its Host Plants. Frontiers in Plant Science, 2018, 9, 1754.	3.6	30
21	In Vivo Isotopic Labeling of Symbiotic Bacteria Involved in Cellulose Degradation and Nitrogen Recycling within the Gut of the Forest Cockchafer (Melolontha hippocastani). Frontiers in Microbiology, 2017, 8, 1970.	3.5	28
22	Crystallization of Î±- and Î²-carotene in the foregut of Spodoptera larvae feeding on a toxic food plant. Insect Biochemistry and Molecular Biology, 2011, 41, 273-281.	2.7	27
23	Aphid Alarm Pheromone as a Cue for Ants to Locate Aphid Partners. PLoS ONE, 2012, 7, e41841.	2.5	27
24	Chemistry and Ecology of Toxic Birds. ChemBioChem, 2001, 2, 809.	2.6	20
25	Elevated Carbon Dioxide Concentration Reduces Alarm Signaling in Aphids. Journal of Chemical Ecology, 2017, 43, 164-171.	1.8	17
26	ARE IRIDOIDS IN LEAF BEETLE LARVAE SYNTHESIZEDDE NOVOOR DERIVED FROM PLANT PRECURSORS? A METHODOLOGICAL APPROACH*. Isotopes in Environmental and Health Studies, 2004, 40, 175-180.	1.0	15
27	Determination of ¹⁵N-Incorporation into Plant Proteins and their Absolute Quantitation: A New Tool to Study Nitrogen Flux Dynamics and Protein Pool Sizes Elicited by Plantâ€“Herbivore Interactions. Journal of Proteome Research, 2012, 11, 4947-4960.	3.7	15
28	Tricarbonylchromâ€Komplexe von chiralen [2.2]Metacyclophanen: Darstellung, Struktur und chiroptische Eigenschaften. Chemische Berichte, 1992, 125, 2553-2569.	0.2	14
29	Biosynthesis of 8-hydroxyquinoline-2-carboxylic acid, an iron chelator from the gut of the lepidopteran Spodoptera littoralis. Organic and Biomolecular Chemistry, 2015, 13, 178-184.	2.8	12
30	Coprophagous features in carnivorous Nepenthes plants: a task for ureases. Scientific Reports, 2017, 7, 11647.	3.3	12
31	SpitWorm, a Herbivorous Robot: Mechanical Leaf Wounding with Simultaneous Application of Salivary Components. Plants, 2019, 8, 318.	3.5	12
32	Plantâ€Inhabiting Ant Utilizes Chemical Cues for Host Discrimination. Biotropica, 2012, 44, 246-253.	1.6	11
33	Silencing ribulose-1,5-bisphosphate carboxylase/oxygenase expression does not disrupt nitrogen allocation to defense after simulated herbivory inNicotiana attenuata. Plant Signaling and Behavior, 2013, 8, e27570.	2.4	8
34	Conformational Studies on the Î”⁸(E,Z)-Sphingolipid Desaturase from Helianthus annuus with Chiral Fluoropalmitic Acids As Mechanistic Probes. Journal of Organic Chemistry, 2010, 75, 4975-4982.	3.2	7
35	Tetranorsesquiterpenoids as Attractants of Yucca Moths to Yucca Flowers. Journal of Chemical Ecology, 2021, 47, 1025-1041.	1.8	7
36	Mechanistic studies of sesquiterpene cyclases based on their carbon isotope ratios at natural abundance. Plant, Cell and Environment, 2018, 41, 39-49.	5.7	5

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37	The Arduous Way to the Egg: Follow the Nose. Angewandte Chemie - International Edition, 2003, 42, 4729-4731.	13.8	1
38	Chromane Derivatives from Underground Parts of Iris tenuifolia and Their In Vitro Antimicrobial, Cytotoxicity and Antiproliferative Evaluation. Molecules, 2021, 26, 6705.	3.8	1