

Carsten T MÃ¼ller

List of Publications by Year in descending order

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79
papers

2,537
citations

172457

29
h-index

214800

47
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79
all docs

79
docs citations

79
times ranked

3077
citing authors

#	ARTICLE	IF	CITATIONS
1	Priority effects during fungal community establishment in beech wood. <i>ISME Journal</i> , 2015, 9, 2246-2260.	9.8	160
2	Do pharmaceuticals affect freshwater invertebrates? A study with the cnidarian <i>Hydra vulgaris</i> . <i>Chemosphere</i> , 2003, 51, 521-528.	8.2	156
3	Changes in Volatile Production During the Course of Fungal Mycelial Interactions Between <i>Hypholoma fasciculare</i> and <i>Resinicium bicolor</i> . <i>Journal of Chemical Ecology</i> , 2006, 33, 43-57.	1.8	106
4	Pollutants Increase Song Complexity and the Volume of the Brain Area HVC in a Songbird. <i>PLoS ONE</i> , 2008, 3, e1674.	2.5	92
5	Effect of triclosan on the development of bacterial biofilms by urinary tract pathogens on urinary catheters. <i>Journal of Antimicrobial Chemotherapy</i> , 2006, 57, 266-272.	3.0	89
6	Allyl alcohol and garlic (<i>Allium sativum</i>) extract produce oxidative stress in <i>Candida albicans</i> . <i>Microbiology (United Kingdom)</i> , 2005, 151, 3257-3265.	1.8	83
7	Endocrine disrupting chemicals accumulate in earthworms exposed to sewage effluent. <i>Chemosphere</i> , 2007, 70, 119-125.	8.2	83
8	Hydrogen Sulfide Inhibits Human BKCa Channels. <i>Advances in Experimental Medicine and Biology</i> , 2009, 648, 65-72.	1.6	73
9	Changes in volatile production during interspecific interactions between four wood rotting fungi growing in artificial media. <i>Fungal Ecology</i> , 2008, 1, 57-68.	1.6	70
10	Diallyl disulphide depletes glutathione in <i>Candida albicans</i> : oxidative stress-mediated cell death studied by two-photon microscopy. <i>Yeast</i> , 2007, 24, 695-706.	1.7	69
11	Antagonistic fungal interactions influence carbon dioxide evolution from decomposing wood. <i>Fungal Ecology</i> , 2015, 14, 24-32.	1.6	64
12	Development of a reliable extraction and quantification method for glucosinolates in <i>Moringa oleifera</i> . <i>Food Chemistry</i> , 2015, 166, 456-464.	8.2	63
13	Novel behavioural assay and partial purification of a female-derived sex pheromone in <i>Carcinus maenas</i> . <i>Marine Ecology - Progress Series</i> , 2002, 244, 179-189.	1.9	61
14	Production and effects of volatile organic compounds during interspecific interactions. <i>Fungal Ecology</i> , 2016, 20, 144-154.	1.6	57
15	Multi-trait analysis of post-harvest storage in rocket salad (<i>Diplotaxis tenuifolia</i>) links sensorial, volatile and nutritional data. <i>Food Chemistry</i> , 2016, 211, 114-123.	8.2	51
16	Otter Scent Signals Age, Sex, and Reproductive Status. <i>Chemical Senses</i> , 2011, 36, 555-564.	2.0	49
17	A structural motif in the C-terminal tail of slo1 confers carbon monoxide sensitivity to human BKCa channels. <i>Pflügers Archiv European Journal of Physiology</i> , 2008, 456, 561-572.	2.8	48
18	Volatile emissions of scented <i>Alstroemeria</i> genotypes are dominated by terpenes, and a myrcene synthase gene is highly expressed in scented <i>Alstroemeria</i> flowers. <i>Journal of Experimental Botany</i> , 2012, 63, 2739-2752.	4.8	45

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19	Pollutants affect development in nestling starlings <i>Sturnus vulgaris</i> . <i>Journal of Applied Ecology</i> , 2011, 48, 391-397.	4.0	43
20	The spawning pheromone cysteine-glutathione disulfide (cNereithione™) arouses a multicomponent nuptial behavior and electrophysiological activity in <i>Nereis succinea</i> males. <i>FASEB Journal</i> , 1999, 13, 945-952.	0.5	42
21	Cysteine residue 911 in C-terminal tail of human BKCa _v channel subunit is crucial for its activation by carbon monoxide. <i>Pflügers Archiv European Journal of Physiology</i> , 2011, 461, 665-675.	2.8	41
22	Use of TD-GC-TOF-MS to assess volatile composition during post-harvest storage in seven accessions of rocket salad (<i>Eruca sativa</i>). <i>Food Chemistry</i> , 2016, 194, 626-636.	8.2	41
23	Specific Poly-phenolic Compounds in Cell Culture of <i>Vitis vinifera</i> L. cv. Gamay Fr [®] aux. <i>Applied Biochemistry and Biotechnology</i> , 2011, 164, 148-161.	2.9	38
24	Cysteine-glutathione disulfide, the sperm-release pheromone of the marine polychaete <i>Nereis succinea</i> (Annelida: Polychaeta). <i>Chemoecology</i> , 1998, 8, 33-38.	1.1	37
25	Sex-specific mediation of foraging in the shore crab, <i>Carcinus maenas</i> . <i>Hormones and Behavior</i> , 2007, 52, 162-168.	2.1	37
26	Influence of food regimes and seasonality on fatty acid composition in the ragworm. <i>Aquatic Biology</i> , 2008, 4, 7-13.	1.4	37
27	Detection of endocrine disrupting chemicals in aerial invertebrates at sewage treatment works. <i>Chemosphere</i> , 2009, 77, 1459-1464.	8.2	37
28	Gene expression analysis of rocket salad under pre-harvest and postharvest stresses: A transcriptomic resource for <i>Diplotaxis tenuifolia</i> . <i>PLoS ONE</i> , 2017, 12, e0178119.	2.5	35
29	Multitrait analysis of fresh-cut cantaloupe melon enables discrimination between storage times and temperatures and identifies potential markers for quality assessments. <i>Food Chemistry</i> , 2018, 241, 222-231.	8.2	34
30	Timing of reproduction in marine polychaetes: The role of sex pheromones. <i>Ecoscience</i> , 1998, 5, 395-404.	1.4	33
31	Money spider dietary choice in pre- and post-harvest cereal crops using metabarcoding. <i>Ecological Entomology</i> , 2021, 46, 249-261.	2.2	32
32	Peptones from diverse sources: pivotal determinants of bacterial growth dynamics. <i>Journal of Applied Microbiology</i> , 2008, 104, 554-565.	3.1	30
33	Peptide pheromones in female <i>Nereis succinea</i> . <i>Peptides</i> , 2004, 25, 1517-1522.	2.4	29
34	Identification of a female sex pheromone in <i>Carcinus maenas</i> . <i>Marine Ecology - Progress Series</i> , 2011, 436, 177-189.	1.9	29
35	Location, location, location: priority effects in wood decay communities may vary between sites. <i>Environmental Microbiology</i> , 2016, 18, 1954-1969.	3.8	29
36	Postharvest exogenous melatonin treatment of strawberry reduces postharvest spoilage but affects components of the aroma profile. <i>Journal of Berry Research</i> , 2019, 9, 297-307.	1.4	29

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37	Wounding tomato fruit elicits ripening-stage specific changes in gene expression and production of volatile compounds. <i>Journal of Experimental Botany</i> , 2015, 66, 1511-1526.	4.8	28
38	Marine gamete-release pheromones. <i>Nature</i> , 1996, 382, 214-214.	27.8	27
39	Sex pheromones in marine polychaetes V: a biologically active volatile compound from the coelomic fluid of female <i>Nereis (Neanthes) japonica</i> (Annelida Polychaeta). <i>Journal of Experimental Marine Biology and Ecology</i> , 1996, 201, 275-284.	1.5	25
40	Detection of <i>Listeria monocytogenes</i> in cut melon fruit using analysis of volatile organic compounds. <i>Food Microbiology</i> , 2016, 54, 52-59.	4.2	25
41	Fruit volatilome profiling through GC-MS and gene expression analyses reveal differences amongst peach cultivars in their response to cold storage. <i>Scientific Reports</i> , 2020, 10, 18333.	3.3	23
42	The whiff of decay: Linking volatile production and extracellular enzymes to outcomes of fungal interactions at different temperatures. <i>Fungal Ecology</i> , 2019, 39, 336-348.	1.6	22
43	A complex interaction between pre-harvest and post-harvest factors determines fresh-cut melon quality and aroma. <i>Scientific Reports</i> , 2019, 9, 2745.	3.3	21
44	Cell Death Mechanisms in the Human Opportunistic Pathogen <i>Candida albicans</i> . <i>Journal of Eukaryotic Microbiology</i> , 2003, 50, 685-686.	1.7	19
45	Sex pheromones in marine polychaetes:volatile organic substances (VOS) isolated from <i>Arenicola marina</i> . <i>Marine Ecology - Progress Series</i> , 1996, 139, 157-166.	1.9	19
46	Scent signals individual identity and country of origin in otters. <i>Mammalian Biology</i> , 2015, 80, 99-105.	1.5	18
47	Knowing Me, Knowing You: Anal Gland Secretion of European Badgers (<i>Meles meles</i>) Codes for Individuality, Sex and Social Group Membership. <i>Journal of Chemical Ecology</i> , 2019, 45, 823-837.	1.8	18
48	Floral Scent Evaluation of Three Cut Flowers Through Sensorial and Gas Chromatography Analysis. <i>Agronomy</i> , 2020, 10, 131.	3.0	17
49	Refocussing therapeutic strategies for cardiac arrhythmias: defining viable molecular targets to restore cardiac ion flux. <i>Expert Opinion on Therapeutic Patents</i> , 2008, 18, 1-19.	5.0	16
50	Enzyme-Linked Oxygen Sensing by Potassium Channels. <i>Annals of the New York Academy of Sciences</i> , 2009, 1177, 112-118.	3.8	14
51	MEDI: Macronutrient Extraction and Determination from invertebrates, a rapid, cheap and streamlined protocol. <i>Methods in Ecology and Evolution</i> , 2021, 12, 593-601.	5.2	14
52	Cysteine Residues in the C-terminal Tail of the Human BKCa \pm Subunit Are Important for Channel Sensitivity to Carbon Monoxide. <i>Advances in Experimental Medicine and Biology</i> , 2009, 648, 49-56.	1.6	14
53	Density-independent prey choice, taxonomy, life history, and web characteristics determine the diet and biocontrol potential of spiders (Linyphiidae and Lycosidae) in cereal crops. <i>Environmental DNA</i> , 2022, 4, 549-564.	5.8	14
54	An immunofluorescence method for postembedded tissue in the acrylic resin Technovit 9100 New $\hat{\circ}$ using fluorescein isothiocyanate secondary detection. <i>Microscopy Research and Technique</i> , 2009, 72, 501-506.	2.2	13

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55	Emergent properties arising from spatial heterogeneity influence fungal community dynamics. <i>Fungal Ecology</i> , 2018, 33, 32-39.	1.6	13
56	Investigation of phthalate release from tracheal tubes. <i>Anaesthesia</i> , 2013, 68, 377-381.	3.8	12
57	Floral scent evaluation of segregating lines of <i>Alstroemeria caryophyllaea</i> . <i>Scientia Horticulturae</i> , 2015, 185, 183-192.	3.6	12
58	Odour dialects among wild mammals. <i>Scientific Reports</i> , 2017, 7, 13593.	3.3	10
59	Odour of King Penguin feathers analysed using direct thermal desorption discriminates between individuals but not sexes. <i>Ibis</i> , 2018, 160, 379-389.	1.9	10
60	Sex pheromones in <i>Nereis succinea</i> . <i>Invertebrate Reproduction and Development</i> , 1999, 36, 183-186.	0.8	9
61	Short-Term Post-Harvest Stress that Affects Profiles of Volatile Organic Compounds and Gene Expression in Rocket Salad during Early Post-Harvest Senescence. <i>Plants</i> , 2020, 9, 4.	3.5	9
62	Mutation of Arabidopsis Copper-Containing Amine Oxidase Gene AtCuAO1 Alters Polyamines, Reduces Gibberellin Content and Affects Development. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7789.	4.1	8
63	Storage time and temperature affects volatile organic compound profile, alliinase activity and postharvest quality of garlic. <i>Postharvest Biology and Technology</i> , 2021, 177, 111533.	6.0	8
64	Evaluating potential olive orchard sugar food sources for the olive fly parasitoid <i>Psytalia concolor</i> . <i>BioControl</i> , 2016, 61, 473-483.	2.0	7
65	Low tyrosine content of growth media yields aflagellate <i>Salmonella enterica</i> serovar Typhimurium. <i>Microbiology (United Kingdom)</i> , 2006, 152, 23-28.	1.8	6
66	Volatile organic compounds as disease predictors in newborn infants: a systematic review. <i>Journal of Breath Research</i> , 2021, 15, 024002.	3.0	6
67	Space-use patterns of Malay civets (<i>Viverra zibetha</i>) persisting within a landscape fragmented by oil palm plantations. <i>Landscape Ecology</i> , 2021, 36, 915-930.	4.2	4
68	Identifying volatile and non-volatile organic compounds to discriminate cultivar, growth location, and stage of ripening in olive fruits and oils. <i>Journal of the Science of Food and Agriculture</i> , 2022, 102, 4500-4513.	3.5	4
69	Bornean caterpillar (Lepidoptera) constructs cocoon from <i>Vatica rassak</i> (Dipterocarpaceae) resin containing multiple deterrent compounds. <i>Journal of Natural History</i> , 2015, 49, 553-560.	0.5	3
70	The price of persistence: Assessing the drivers and health implications of metal levels in indicator carnivores inhabiting an agriculturally fragmented landscape. <i>Environmental Research</i> , 2022, 207, 112216.	7.5	3
71	Physiological implications of life at the forest interface of oil palm agriculture: blood profiles of wild Malay civets (<i>Viverra zibetha</i>). , 2020, 8, coaa127.		3
72	From laboratory to industrial storage – Translating volatile organic compounds into markers for assessing garlic storage quality. <i>Postharvest Biology and Technology</i> , 2022, 191, 111976.	6.0	3

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73	Pheromonal Communication in Nereids and the Likely Intervention by Petroleum Derived Pollutants. Integrative and Comparative Biology, 2005, 45, 189-193.	2.0	2
74	Space and patchiness affects diversityâ€“function relationships in fungal decay communities. ISME Journal, 2021, 15, 720-731.	9.8	2
75	Chemically-mediated sexual display postures in pre-ovulatory female topmouth gudgeon, Pseudorasbora parva. Behaviour, 2012, 149, 1003-1018.	0.8	1
76	Using volatile organic compounds to monitor shelf-life in rocket salad. Acta Horticulturae, 2018, , 1299-1306.	0.2	1
77	Home is where the heart rot is: violet click beetle, Limoniscus violaceus (MÄller, 1821), habitat attributes and volatiles. Insect Conservation and Diversity, 2021, 14, 155-162.	3.0	1
78	Effect of temperature and cut size on the volatile organic compound profile, and expression of Chorismate synthase in fresh-cut melon. Acta Horticulturae, 2018, , 1175-1180.	0.2	1
79	Scents and scentsitivity - what scents (may) spell out and ways to read it. Flavour, 2014, 3, .	2.3	0