Inge S Fomsgaard

List of Publications by Year
in descending order

103 papers	3,054 citations	126858 33 h-index	189801 50 g-index
105 all docs	105 docs citations	105 times ranked	3288 citing authors

#	Article	IF	Citations
1	Maize synthesized benzoxazinoids affect the host associated microbiome. Microbiome, 2019, 7, 59.	4.9	185
2	Comparison and evaluation of eight pesticide environmental risk indicators developed in Europe and recommendations for future use. Agriculture, Ecosystems and Environment, 2002, 90, 177-187.	2.5	161
3	Amaranth (Amaranthus hypochondriacus) as an alternative crop for sustainable food production: Phenolic acids and flavonoids with potential impact on its nutraceutical quality. Journal of Cereal Science, 2009, 49, 117-121.	1.8	144
4	Proximate composition, phenolic acids, and flavonoids characterization of commercial and wild nopal (Opuntia spp.). Journal of Food Composition and Analysis, 2010, 23, 525-532.	1.9	121
5	Microbial transformation products of benzoxazolinone and benzoxazinone allelochemicalsâ€"â€"a review. Chemosphere, 2004, 54, 1025-1038.	4.2	106
6	Fate and availability of glyphosate and AMPA in agricultural soil. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2008, 43, 365-375.	0.7	104
7	Quantification of neonicotinoid insecticide residues in soils from cocoa plantations using a QuEChERS extraction procedure and LC-MS/MS. Science of the Total Environment, 2014, 499, 276-283.	3.9	83
8	Fate of Benzoxazinone Allelochemicals in Soil after Incorporation of Wheat and Rye Sprouts. Journal of Agricultural and Food Chemistry, 2006, 54, 1064-1074.	2.4	78
9	Flavonoids in roots of white clover: interaction of arbuscular mycorrhizal fungi and a pathogenic fungus. Plant and Soil, 2008, 302, 33-43.	1.8	72
10	Benzoxazinoids: Cereal phytochemicals with putative therapeutic and healthâ€protecting properties. Molecular Nutrition and Food Research, 2015, 59, 1324-1338.	1.5	71
11	Bread from common cereal cultivars contains an important array of neglected bioactive benzoxazinoids. Food Chemistry, 2011, 127, 1814-1820.	4.2	65
12	Threshold response of stomatal closing ability to leaf abscisic acid concentration during growth. Journal of Experimental Botany, 2014, 65, 4361-4370.	2.4	61
13	Variations in the polyphenol content of seeds of field grown Amaranthus genotypes. Food Chemistry, 2011, 129, 131-138.	4.2	57
14	Degradation of Pesticides in Subsurface Soils, Unsaturated Zoneâ€"a Review Of Methods and Results. International Journal of Environmental Analytical Chemistry, 1995, 58, 231-245.	1.8	53
15	Biologically active secondary metabolites in white clover (Trifolium repens L.) â€" a review focusing on contents in the plant, plantâ€"pest interactions and transformation. Chemoecology, 2008, 18, 129-170.	0.6	53
16	Biotransformation of 2-Benzoxazolinone to 2-Amino-(3H)-Phenoxazin-3-one and 2-Acetylamino-(3H)-Phenoxazin-3-one in Soil. Journal of Chemical Ecology, 2005, 31, 1205-1222.	0.9	52
17	Comparison of the levels of bioactive benzoxazinoids in different wheat and rye fractions and the transformation of these compounds in homemade foods. Food Chemistry, 2013, 141, 444-450.	4.2	51
18	Benzoxazinoid concentrations show correlation with Fusarium Head Blight resistance in Danish wheat varieties. Biochemical Systematics and Ecology, 2008, 36, 245-259.	0.6	47

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19	Foliar abscisic acid content underlies genotypic variation in stomatal responsiveness after growth at high relative air humidity. Annals of Botany, 2013, 112, 1857-1867.	1.4	45
20	Modelling the mineralization kinetics for low concentrations of pesticides in surface and subsurface soil. Ecological Modelling, 1997, 102, 175-208.	1.2	44
21	Transformation of Benzoxazinones and Derivatives and Microbial Activity in the Test Environment of Soil Ecotoxicological Tests onPoecilus cupreusandFolsomia candida. Journal of Agricultural and Food Chemistry, 2006, 54, 1086-1092.	2.4	43
22	Application of the QuEChERS procedure and LCâ€"MS/MS for the assessment of neonicotinoid insecticide residues in cocoa beans and shells. Journal of Food Composition and Analysis, 2015, 44, 149-157.	1.9	43
23	Chemical Ecology in Wheat Plantâ˘'Pest Interactions. How the Use of Modern Techniques and a Multidisciplinary Approach Can Throw New Light on a Well-known Phenomenon: Allelopathy. Journal of Agricultural and Food Chemistry, 2006, 54, 987-990.	2.4	42
24	Nutritional composition of minor indigenous fruits: Cheapest nutritional source for the rural people of Bangladesh. Food Chemistry, 2013, 140, 466-470.	4.2	42
25	Leaching of Pesticides Through Normalâ€Tillage and Lowâ€Tillage Soilâ€"A Lysimeter Study. II. Glyphosate. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2003, 38, 19-35.	0.7	40
26	Fate in Soil of Flavonoids Released from White Clover (<i>Trifolium repens</i>L.). Applied and Environmental Soil Science, 2012, 2012, 1-10.	0.8	39
27	Transformation products of 2-benzoxazolinone (BOA) in soil. Chemosphere, 2005, 61, 74-84.	4.2	38
28	Transformation kinetics of 6-methoxybenzoxazolin-2-one in soil. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2008, 43, 1-7.	0.7	38
29	Seed inoculations with entomopathogenic fungi affect aphid populations coinciding with modulation of plant secondary metabolite profiles across plant families. New Phytologist, 2021, 229, 1715-1727.	3.5	38
30	Absorption and metabolic fate of bioactive dietary benzoxazinoids in humans. Molecular Nutrition and Food Research, 2013, 57, 1847-1858.	1.5	37
31	Sorption and degradation of neonicotinoid insecticides in tropical soils. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2018, 53, 587-594.	0.7	37
32	2,4-Dihydroxy-7-methoxy-2 H -1,4-benzoxazin-3(4 H)-one (DIMBOA) inhibits trichothecene production by Fusarium graminearum through suppression of Tri6 expression. International Journal of Food Microbiology, 2015, 214, 123-128.	2.1	34
33	First European interlaboratory study of the analysis of benzoxazinone derivatives in plants by liquid chromatography. Journal of Chromatography A, 2004, 1047, 69-76.	1.8	33
34	Bioactive Benzoxazinoids in Rye Bread Are Absorbed and Metabolized in Pigs. Journal of Agricultural and Food Chemistry, 2012, 60, 2497-2506.	2.4	33
35	Biosynthesis and chemical transformation of benzoxazinoids in rye during seed germination and the identification of a rye Bx6-like gene. Phytochemistry, 2017, 140, 95-107.	1.4	33
36	Elucidating the Transformation Pattern of the Cereal Allelochemical 6-Methoxy-2-benzoxazolinone (MBOA) and the Trideuteriomethoxy Analogue [D3]-MBOA in Soil. Journal of Agricultural and Food Chemistry, 2006, 54, 1075-1085.	2.4	32

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37	Synthesis and Quantitation of Six Phenolic Amides in<i>Amaranthus</i>spp.. Journal of Agricultural and Food Chemistry, 2010, 58, 6306-6311.	2.4	32
38	Metabolomics unveils the influence of dietary phytochemicals on residual pesticide concentrations in honey bees. Environment International, 2021, 152, 106503.	4.8	32
39	Allelochemicals in rye (Secale cereale L.): cultivar and tissue differences in the production of benzoxazinoids and phenolic acids. Natural Product Communications, 2009, 4, 199-208.	0.2	32
40	Direct acquisition of organic N by white clover even in the presence of inorganic N. Plant and Soil, 2016, 407, 91-107.	1.8	31
41	Multiple effects of secondary metabolites on amino acid cycling in white clover rhizosphere. Soil Biology and Biochemistry, 2018, 123, 54-63.	4.2	30
42	Variation of Polyphenols and Betaines in Aerial Parts of Young, Field-Grown Amaranthus Genotypes. Journal of Agricultural and Food Chemistry, 2011, 59, 12073-12082.	2.4	29
43	Differences among five amaranth varieties (Amaranthus spp.) regarding secondary metabolites and foliar herbivory by chewing insects in the field. Arthropod-Plant Interactions, 2013, 7, 235-245.	0.5	26
44	Root-Exuded Benzoxazinoids: Uptake and Translocation in Neighboring Plants. Journal of Agricultural and Food Chemistry, 2020, 68, 10609-10617.	2.4	25
45	Plasma and Urine Concentrations of Bioactive Dietary Benzoxazinoids and Their Glucuronidated Conjugates in Rats Fed a Rye Bread-Based Diet. Journal of Agricultural and Food Chemistry, 2012, 60, 11518-11524.	2.4	24
46	Dietary quercetin impacts the concentration of pesticides in honey bees. Chemosphere, 2021, 262, 127848.	4.2	24
47	Degradation of Mecoprop and Isoproturon in Soil Influence of Initial Concentration. International Journal of Environmental Analytical Chemistry, 1998, 70, 133-148.	1.8	23
48	Weed suppressive traits of winter cereals: Allelopathy and competition. Biochemical Systematics and Ecology, 2018, 76, 35-41.	0.6	23
49	Correlation of Deoxynivalenol Accumulation in Fusarium-Infected Winter and Spring Wheat Cultivars with Secondary Metabolites at Different Growth Stages. Journal of Agricultural and Food Chemistry, 2016, 64, 4545-4555.	2.4	21
50	Influence of microbial activity, organic carbon content, soil texture and soil depth on mineralisation rates of low concentrations of 14C-mecopropâ€"development of a predictive model. Ecological Modelling, 1999, 122, 45-68.	1.2	20
51	Phytotoxic Effect, Uptake, and Transformation of Biochanin A in Selected Weed Species. Journal of Agricultural and Food Chemistry, 2012, 60, 10715-10722.	2.4	19
52	Weed suppression by winter cereals: relative contribution of competition for resources and allelopathy. Chemoecology, 2018, 28, 109-121.	0.6	18
53	Allelochemicals in Rye (<i>Secale Cereale</i>L.): Cultivar and Tissue Differences in the Production of Benzoxazinoids and Phenolic Acids. Natural Product Communications, 2009, 4, 1934578X0900400.	0.2	17
54	Determination of the Effect of Co-cultivation on the Production and Root Exudation of Flavonoids in Four Legume Species Using LCâ€"MS/MS Analysis. Journal of Agricultural and Food Chemistry, 2021, 69, 9208-9219.	2.4	17

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55	Benzoxazinoids in Prostate Cancer Patients after a Rye-Intensive Diet: Methods and Initial Results. Journal of Agricultural and Food Chemistry, 2016, 64, 8235-8245.	2.4	16
56	Phenolic Compounds in Different Barley Varieties: Identification by Tandem Mass Spectrometry (QStar) and NMR; Quantification by Liquid Chromatography Triple Quadrupole-Linear Ion Trap Mass Spectrometry (Q-Trap). Natural Product Communications, 2010, 5, 1934578X1000500.	0.2	15
57	Identification and Quantification of Loline-Type Alkaloids in Endophyte-Infected Grasses by LC-MS/MS. Journal of Agricultural and Food Chemistry, 2016, 64, 6212-6218.	2.4	15
58	Benzoxazinoids selectively affect maize root-associated nematode taxa. Journal of Experimental Botany, 2021, 72, 3835-3845.	2.4	15
59	Metabolic profiling of benzoxazinoids in the roots and rhizosphere of commercial winter wheat genotypes. Plant and Soil, 2021, 466, 467-489.	1.8	15
60	Toxaphene and Other Organochlorine Pesticides in Fish and Sediment from Lake XolotlÃ¡n, Nicaragua. International Journal of Environmental Analytical Chemistry, 1993, 53, 297-305.	1.8	14
61	Quantitative analysis of absorption, metabolism, and excretion of benzoxazinoids in humans after the consumption of high- and low-benzoxazinoid diets with similar contents of cereal dietary fibres: a crossover study. European Journal of Nutrition, 2017, 56, 387-397.	4.6	14
62	Targeted metabolomics unveil alteration in accumulation and root exudation of flavonoids as a response to interspecific competition. Journal of Plant Interactions, 2021, 16, 53-63.	1.0	14
63	Integrated LCâ€“MS and GCâ€“MS-Based Metabolomics Reveal the Effects of Plant Competition on the Rye Metabolome. Journal of Agricultural and Food Chemistry, 2022, 70, 3056-3066.	2.4	13
64	Phenolic Acids from Wheat Show Different Absorption Profiles in Plasma: A Model Experiment with Catheterized Pigs. Journal of Agricultural and Food Chemistry, 2013, 61, 8842-8850.	2.4	12
65	Quantification of azoxystrobin and identification of two novel metabolites in lettuce via liquid chromatographyâ€“quadrupole-linear ion trap (QTRAP) mass spectrometry. International Journal of Environmental Analytical Chemistry, 2017, 97, 419-430.	1.8	12
66	Overexpression of Nepenthesin HvNEP-1 in Barley Endosperm Reduces Fusarium Head Blight and Mycotoxin Accumulation. Agronomy, 2020, 10, 203.	1.3	11
67	Analytical Methods for Quantification and Identification of Intact Glucosinolates in Arabidopsis Roots Using LC-QqQ(LIT)-MS/MS. Metabolites, 2021, 11, 47.	1.3	11
68	Are ant feces nutrients for plants? A metabolomics approach to elucidate the nutritional effects on plants hosting weaver ants. Metabolomics, 2015, 11, 1013-1028.	1.4	10
69	Leaching of Pesticides Through Normalâ€Tillage and Lowâ€Tillage Soilâ€"A Lysimeter Study. I. Isoproturon. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2003, 38, 1-18.	0.7	9
70	Bioactive small molecules in commercially available cereal food: Benzoxazinoids. Journal of Food Composition and Analysis, 2017, 64, 213-222.	1.9	9
71	Urea in Weaver Ant Feces: Quantification and Investigation of the Uptake and Translocation of Urea in Coffea arabica. Journal of Plant Growth Regulation, 2016, 35, 803-814.	2.8	8
72	Alterations of the Benzoxazinoid Profiles of Uninjured Maize Seedlings During Freezing, Storage, and Lyophilization. Journal of Agricultural and Food Chemistry, 2017, 65, 4103-4110.	2.4	8

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73	Fusarium oxysporum Disrupts Microbiome-Metabolome Networks in Arabidopsis thaliana Roots. Microbiology Spectrum, 2022, 10, .	1.2	8
74	Preliminary study of 15 organochlorine pesticides in Lake Xolotlan, Nicaragua. Chemosphere, 1992, 24, 1413-1419.	4.2	7
75	Maize root culture as a model system for studying azoxystrobin biotransformation in plants. Chemosphere, 2018, 195, 624-631.	4.2	7
76	LCâ€“MS/MS Quantification Reveals Ample Gut Uptake and Metabolization of Dietary Phytochemicals in Honey Bees (<i>Apis mellifera</i>). Journal of Agricultural and Food Chemistry, 2021, 69, 627-637.	2.4	7
77	Degradation of [14C]ethylenethiourea in surface and subsurface soil. Science of the Total Environment, 1996, 191, 271-276.	3.9	6
78	Variation in Flavonoids in Leaves, Stems and Flowers of White Clover Cultivars. Natural Product Communications, 2008, 3, 1934578X0800300.	0.2	6
79	Degradation of biochanin A in soil. Chemoecology, 2011, 21, 59-66.	0.6	6
80	Biphenyl Columns Provide Good Separation of the Glucosides of DIMBOA and DIM2BOA. Natural Product Communications, 2017, 12, 1934578X1701200.	0.2	6
81	Mass Spectrometry-Based Metabolomics Reveals a Concurrent Action of Several Chemical Mechanisms in <i>Arabidopsis-Fusarium oxysporum</i> Compatible and Incompatible Interactions. Journal of Agricultural and Food Chemistry, 2020, 68, 15335-15344.	2.4	6
82	Influence of the growing conditions on the flavonoids and phenolic acids accumulation in amaranth (Amaranthus hypochondriacus L.) leaves.. Terra Latinoamericana, 2019, 37, 449.	0.3	6
83	Mercury contamination in Lake XolotlÃ¡n (Managua). Hydrobiological Bulletin, 1991, 25, 173-176.	0.5	5
84	Lead, arsenic, cadmium and copper in Lake Asososca, Nicaragua. Science of the Total Environment, 1994, 155, 229-236.	3.9	5
85	Metabolic Profiling of Arabidopsis Thaliana Reveals Herbicide- and Allelochemical-Dependent Alterations Before They Become Apparent in Plant Growth. Journal of Plant Growth Regulation, 2015, 34, 96-107.	2.8	5
86	Dissipation kinetics of asparagine in soil measured by compound-specific analysis with metabolite tracking. Biology and Fertility of Soils, 2016, 52, 911-916.	2.3	5
87	Liquid chromatography-tandem mass spectrometry method for simultaneous quantification of azoxystrobin and its metabolites, azoxystrobin free acid and 2-hydroxybenzonitrile, in greenhouse-grown lettuce. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2017, 34, 2173-2180.	1.1	5
88	Weed suppression by Canadian spring cereals: relative contribution of competition for resources and allelopathy. Chemoecology, 2018, 28, 183-187.	0.6	5
89	Identification of Azoxystrobin Glutathione Conjugate Metabolites in Maize Roots by LC-MS. Molecules, 2019, 24, 2473.	1.7	5
90	Mass spectrometryâ€based metabolomics unravel the transfer of bioactive compounds between rye and neighbouring plants. Plant, Cell and Environment, 2021, 44, 3492-3501.	2.8	5

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91	Optimised extraction and LC-MS/MS analysis of flavonoids reveal large field variation in exudation into Lupinus Angustifolius L. rhizosphere soil. Rhizosphere, 2022, 22, 100516.	1.4	5
92	The Response of<i>Arabidopsis</i>to Co-cultivation with Clover. ACS Symposium Series, 2013, , 189-201.	0.5	4
93	Stepwise mass spectrometryâ€based approach for confirming the presence of benzoxazinoids in herbs and vegetables. Phytochemical Analysis, 2021, 32, 283-297.	1.2	4
94	Data-dependent acquisition-mass spectrometry guided isolation of new benzoxazinoids from the roots of Acanthus mollis L. International Journal of Mass Spectrometry, 2022, 474, 116815.	0.7	4
95	Sampling and Substrate Application Methods for Pesticide Mineralization Experiments in Undisturbed Soil Samples. International Journal of Environmental Analytical Chemistry, 1998, 70, 121-132.	1.8	3
96	An inverse association between plasma benzoxazinoid metabolites and PSA after rye intake in men with prostate cancer revealed with a new method. Scientific Reports, 2022, 12, 5260.	1.6	3
97	Degradation of14câ€maneb in sediment from a Nicaraguan estuary. International Journal of Environmental Studies, 1998, 55, 175-198.	0.7	2
98	Dietary exposure to benzoxazinoids enhances bacteriaâ€induced monokine responses by peripheral blood mononuclear cells. Molecular Nutrition and Food Research, 2015, 59, 2190-2198.	1.5	2
99	Effect of Tillage Systems on the Dissipation of Prosulfocarb Herbicide. Weed Technology, 2018, 32, 195-204.	0.4	2
100	Rebuttal on Results from the FATEALLCHEM Project. Journal of Agricultural and Food Chemistry, 2007, 55, 1645-1647.	2.4	0
101	Profiling and Metabolism of Sterols in the Weaver Ant Genus Oecophylla. Natural Product Communications, 2016, 11, 1934578X1601100.	0.2	0
102	Benzoxaxinoids Are Inversely Associated With Prostate-Specific Antigen Levels- a Whole Grain Rye vs Refined Wheat Randomized Cross-Over Trial in Men With Prostate Cancer. Current Developments in Nutrition, 2021, 5, 482.	0.1	0
103	Barley Nepenthesin-Like Aspartic Protease HvNEP-1 Degrades Fusarium Phytase, Impairs Toxin Production, and Suppresses the Fungal Growth. Frontiers in Plant Science, 2021, 12, 702557.	1.7	0