

# Karl-Heinz Engel

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/1884247/karl-heinz-engel-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91  
papers

2,370  
citations

30  
h-index

45  
g-index

94  
ext. papers

2,706  
ext. citations

5  
avg. IF

5.02  
L-index

#	Paper	IF	Citations
91	Comparison of two GM maize varieties with a near-isogenic non-GM variety using transcriptomics, proteomics and metabolomics. <i>Plant Biotechnology Journal</i> , <b>2010</b> , 8, 436-51	11.6	189
90	Content of gamma-oryzanol and composition of steryl ferulates in brown rice ( <i>Oryza sativa</i> L.) of European origin. <i>Journal of Agricultural and Food Chemistry</i> , <b>2006</b> , 54, 8127-33	5.7	116
89	Metabolite profiling of germinating rice seeds. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 11612-20	5.7	83
88	Safety aspects of the production of foods and food ingredients from insects. <i>Molecular Nutrition and Food Research</i> , <b>2017</b> , 61, 1600520	5.9	82
87	Identification and characterization of wheat grain albumin/globulin allergens. <i>Electrophoresis</i> , <b>1997</b> , 18, 826-33	3.6	78
86	Mutations of the multi-drug resistance-associated protein ABC transporter gene 5 result in reduction of phytic acid in rice seeds. <i>Theoretical and Applied Genetics</i> , <b>2009</b> , 119, 75-83	6	74
85	Metabolite profiling of maize kernels--genetic modification versus environmental influence. <i>Journal of Agricultural and Food Chemistry</i> , <b>2012</b> , 60, 3005-12	5.7	70
84	Gut metabolites and bacterial community networks during a pilot intervention study with flaxseeds in healthy adult men. <i>Molecular Nutrition and Food Research</i> , <b>2015</b> , 59, 1614-28	5.9	65
83	Distortion of genetically modified organism quantification in processed foods: influence of particle size compositions and heat-induced DNA degradation. <i>Journal of Agricultural and Food Chemistry</i> , <b>2005</b> , 53, 9971-9	5.7	60
82	Metabolite profiling of barley: Influence of the malting process. <i>Food Chemistry</i> , <b>2011</b> , 124, 948-957	8.5	58
81	Metabolite profiling of two low phytic acid (lpa) rice mutants. <i>Journal of Agricultural and Food Chemistry</i> , <b>2007</b> , 55, 11011-9	5.7	58
80	Disruption of OsSULTR3;3 reduces phytate and phosphorus concentrations and alters the metabolite profile in rice grains. <i>New Phytologist</i> , <b>2016</b> , 211, 926-39	9.8	56
79	Metabolite profiling of maize grain: differentiation due to genetics and environment. <i>Metabolomics</i> , <b>2009</b> , 5, 459-477	4.7	54
78	Influence of the input system (conventional versus organic farming) on metabolite profiles of maize ( <i>Zea mays</i> ) kernels. <i>Journal of Agricultural and Food Chemistry</i> , <b>2010</b> , 58, 3022-30	5.7	53
77	Development of a real-time PCR for the detection of lupine DNA ( <i>lupinus</i> species) in foods. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 4328-32	5.7	50
76	Simultaneous detection of DNA from 10 food allergens by ligation-dependent probe amplification. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , <b>2009</b> , 26, 409-18	3.2	49
75	Metabolite profiling of colored rice ( <i>Oryza sativa</i> L.) grains. <i>Journal of Cereal Science</i> , <b>2012</b> , 55, 112-119	3.8	47

74	Phytosterol oxidation products in enriched foods: Occurrence, exposure, and biological effects. <i>Molecular Nutrition and Food Research</i> , <b>2015</b> , 59, 1339-52	5.9	43
73	Simultaneous analysis of free phytosterols/phytostanols and intact phytosteryl/phytostanyl fatty acid and phenolic acid esters in cereals. <i>Journal of Agricultural and Food Chemistry</i> , <b>2012</b> , 60, 5330-9	5.7	43
72	Stereochemical course of the generation of 3-mercaptohexanal and 3-mercaptohexanol by beta-lyase-catalyzed cleavage of cysteine conjugates. <i>Journal of Agricultural and Food Chemistry</i> , <b>2004</b> , 52, 110-6	5.7	41
71	A metabolite profiling approach to follow the sprouting process of mung beans ( <i>Vigna radiata</i> ). <i>Metabolomics</i> , <b>2011</b> , 7, 102-117	4.7	39
70	Quantification of DNA from genetically modified organisms in composite and processed foods. <i>Trends in Food Science and Technology</i> , <b>2006</b> , 17, 490-497	15.3	38
69	Coupled liquid chromatography-gas chromatography for the rapid analysis of gamma-oryzanol in rice lipids. <i>Journal of Chromatography A</i> , <b>2003</b> , 985, 403-10	4.5	36
68	Analysis of steryl esters in cocoa butter by on-line liquid chromatography-gas chromatography. <i>Journal of Chromatography A</i> , <b>2001</b> , 918, 341-9	4.5	36
67	A methodology for automated comparative analysis of metabolite profiling data. <i>European Food Research and Technology</i> , <b>2003</b> , 216, 335-342	3.4	35
66	Toxicity of fluoride: critical evaluation of evidence for human developmental neurotoxicity in epidemiological studies, animal experiments and in vitro analyses. <i>Archives of Toxicology</i> , <b>2020</b> , 94, 1375-1415	5.8	33
65	Ligation-dependent probe amplification for the simultaneous event-specific detection and relative quantification of DNA from two genetically modified organisms. <i>European Food Research and Technology</i> , <b>2006</b> , 222, 479-485	3.4	32
64	Online LC-GC-based analysis of minor lipids in various tree nuts and peanuts. <i>Journal of Agricultural and Food Chemistry</i> , <b>2013</b> , 61, 11636-44	5.7	30
63	Metabolite profiling of two novel low phytic acid (lpa) soybean mutants. <i>Journal of Agricultural and Food Chemistry</i> , <b>2009</b> , 57, 6408-16	5.7	30
62	Volatile constituents of uncooked rhubarb ( <i>Rheum rhabarbarum</i> L.) stalks. <i>Journal of Agricultural and Food Chemistry</i> , <b>2003</b> , 51, 6530-6	5.7	30
61	Detection of Cashew Nut in Foods by a Specific Real-time PCR Method. <i>Food Analytical Methods</i> , <b>2008</b> , 1, 136-143	3.4	28
60	Assessment of the contents of phytic acid and divalent cations in low phytic acid (lpa) mutants of rice and soybean. <i>Journal of Food Composition and Analysis</i> , <b>2009</b> , 22, 278-284	4.1	27
59	Metabolite profiling of barley grain subjected to induced drought stress: responses of free amino acids in differently adapted cultivars. <i>Journal of Agricultural and Food Chemistry</i> , <b>2015</b> , 63, 4252-61	5.7	25
58	Online LC-GC analysis of free sterols/stanols and intact steryl/stanyl esters in cereals. <i>Journal of Agricultural and Food Chemistry</i> , <b>2013</b> , 61, 10932-9	5.7	25
57	Impact of induced drought stress on the metabolite profiles of barley grain. <i>Metabolomics</i> , <b>2015</b> , 11, 454-467	4.7	25

56	GC-based analysis of plant stanyl fatty acid esters in enriched foods. <i>Journal of Agricultural and Food Chemistry</i> , <b>2011</b> , 59, 5204-14	5-7	24
55	Development of a modular system for detection of genetically modified organisms in food based on ligation-dependent probe amplification. <i>European Food Research and Technology</i> , <b>2008</b> , 227, 805-812	3-4	24
54	Fate of dietary phytosterol/-stanyl esters: analysis of individual intact esters in human feces. <i>European Journal of Nutrition</i> , <b>2013</b> , 52, 997-1013	5-2	23
53	Enantioselective analysis of secondary alcohols and their esters in purple and yellow passion fruits. <i>Journal of Agricultural and Food Chemistry</i> , <b>2007</b> , 55, 10339-44	5-7	20
52	Capillary gas chromatographic analysis of complex phytosterol/-stanyl ester mixtures in enriched skimmed milk-drinking yoghurts. <i>Food Control</i> , <b>2012</b> , 27, 275-283	6-2	19
51	2,3-di-O-methoxymethyl-6-O-tert-butyl-dimethylsilyl-gamma-cyclodextrin: a new class of cyclodextrin derivatives for gas chromatographic separation of enantiomers. <i>Journal of Chromatography A</i> , <b>2005</b> , 1063, 181-92	4-5	18
50	Quantification of lupine ( <i>Lupinus angustifolius</i> ) in wheat flour using real-time PCR and an internal standard material. <i>European Food Research and Technology</i> , <b>2012</b> , 235, 61-66	3-4	17
49	Stereoselectivity of the generation of 3-mercaptohexanal and 3-mercaptohexanol by lipase-catalyzed hydrolysis of 3-acetylthioesters. <i>Journal of Agricultural and Food Chemistry</i> , <b>2003</b> , 51, 4349-55	5-7	17
48	Analysis and sensory evaluation of gooseberry ( <i>Ribes uva crispa</i> L.) volatiles. <i>Journal of Agricultural and Food Chemistry</i> , <b>2013</b> , 61, 6240-9	5-7	15
47	Influence of the stereochemistry on the sensory properties of 4-mercapto-2-heptanol and its acetyl-derivatives. <i>Journal of Agricultural and Food Chemistry</i> , <b>2013</b> , 61, 2062-9	5-7	15
46	Enzyme-catalyzed hydrolysis of Eryzanol. <i>European Food Research and Technology</i> , <b>2004</b> , 218, 349-354	3-4	15
45	Enantioselective analysis of methyl-branched alcohols and acids in rhubarb ( <i>Rheum rhabarbarum</i> L.) stalks. <i>Journal of Agricultural and Food Chemistry</i> , <b>2003</b> , 51, 7086-91	5-7	15
44	Comparison of odour thresholds and odour qualities of the enantiomers of 4-mercapto-2-alkanones and 4-acetylthio-2-alkanones. <i>Flavour and Fragrance Journal</i> , <b>2015</b> , 30, 171-178	2-5	14
43	Chirality: An Important Phenomenon Regarding Biosynthesis, Perception, and Authenticity of Flavor Compounds. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 10265-10274	5-7	14
42	Simultaneous detection of allergenic fish, cephalopods and shellfish in food by multiplex ligation-dependent probe amplification. <i>European Food Research and Technology</i> , <b>2014</b> , 239, 559-566	3-4	14
41	Analysis and Sensory Evaluation of Volatile Constituents of Fresh Blackcurrant ( <i>Ribes nigrum</i> L.) Fruits. <i>Journal of Agricultural and Food Chemistry</i> , <b>2017</b> , 65, 9475-9487	5-7	13
40	Analysis and stereodifferentiation of linalool in <i>Theobroma cacao</i> and cocoa products using enantioselective multidimensional gas chromatography. <i>European Food Research and Technology</i> , <b>2012</b> , 235, 827-834	3-4	13
39	Detection of lupine ( <i>Lupinus</i> spp.) DNA in processed foods using real-time PCR. <i>Food Control</i> , <b>2011</b> , 22, 215-220	6-2	13

38	Genetic and environmental influence on maize kernel proteome. <i>Journal of Proteome Research</i> , <b>2010</b> , 9, 6160-8	5.6	13
37	On-line liquid chromatography-gas chromatography: A novel approach for the analysis of phytosterol oxidation products in enriched foods. <i>Journal of Chromatography A</i> , <b>2015</b> , 1396, 98-108	4.5	12
36	Comparative assessment of DNA-based approaches for the quantification of food allergens. <i>Food Chemistry</i> , <b>2014</b> , 160, 104-11	8.5	12
35	Assessment of dietary exposure to flavouring substances via consumption of flavoured teas. Part 1: occurrence and contents of monoterpenes in Earl Grey teas marketed in the European Union. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , <b>2013</b> , 30, 1504-1514	3.2	12
34	Heating Two Types of Enriched Margarine: Complementary Analysis of Phytosteryl/Phytostanyl Fatty Acid Esters and Phytosterol/Phytostanol Oxidation Products. <i>Journal of Agricultural and Food Chemistry</i> , <b>2016</b> , 64, 2699-708	5.7	12
33	Determination of the absolute configurations of 4-mercapto-2-alkanones using the <sup>1</sup> H NMR anisotropy method and enzyme-catalyzed kinetic resolution of the corresponding 4-acetylthio-2-alkanones. <i>European Food Research and Technology</i> , <b>2011</b> , 232, 753-760	3.4	11
32	2,3-di-O-methoxymethyl-6-O-tert-butyl-dimethylsilyl-beta-cyclodextrin, a useful stationary phase for gas chromatographic separation of enantiomers. <i>Journal of Chromatography A</i> , <b>2005</b> , 1076, 148-54	4.5	11
31	Simultaneous quantification of the food allergens soy bean, celery, white mustard and brown mustard via combination of tetraplex real-time PCR and standard addition. <i>Food Control</i> , <b>2015</b> , 47, 246-253	6.3	10
30	Apricot DNA as an indicator for persipan: detection and quantitation in marzipan using ligation-dependent probe amplification. <i>Journal of Agricultural and Food Chemistry</i> , <b>2012</b> , 60, 5853-8	5.7	10
29	Analysis and Sensory Evaluation of the Stereoisomers of a Homologous Series (C5-C10) of 4-Mercapto-2-alkanols. <i>Journal of Agricultural and Food Chemistry</i> , <b>2017</b> , 65, 8913-8922	5.7	9
28	Reinvestigation of the Absolute Configurations of Chiral Mercaptoalkanones Using Vibrational Circular Dichroism and <sup>1</sup> H NMR Analysis. <i>Journal of Agricultural and Food Chemistry</i> , <b>2016</b> , 64, 8563-8571	5.7	9
27	Stability of the Metabolite Signature Resulting from the OsSULTR3;3 Mutation in Low Phytic Acid Rice ( <i>Oryza sativa</i> L.) Seeds upon Cross-breeding. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 9366-9376	5.7	9
26	Analysis of phytostanyl fatty acid esters in enriched foods via UHPLC-APCI-MS. <i>Journal of Agricultural and Food Chemistry</i> , <b>2014</b> , 62, 4268-75	5.7	9
25	Modelling framework for assessment of dietary exposure to added flavouring substances within the FACET (Flavours, Additives, and Food Contact Material Exposure Task) project. <i>Food and Chemical Toxicology</i> , <b>2013</b> , 58, 236-41	4.7	9
24	An approach based on ultrahigh performance liquid chromatography-atmospheric pressure chemical ionization-mass spectrometry allowing the quantification of both individual phytosteryl and phytostanyl fatty acid esters in complex mixtures. <i>Journal of Chromatography A</i> , <b>2016</b> , 1429, 218-29	4.5	8
23	Impact of Crossing Parent and Environment on the Metabolite Profiles of Progenies Generated from a Low Phytic Acid Rice ( <i>Oryza sativa</i> L.) Mutant. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 2396-2407	5.7	7
22	Sensory active piperine analogues from <i>Macropiper excelsum</i> and their effects on intestinal nutrient uptake in Caco-2 cells. <i>Phytochemistry</i> , <b>2017</b> , 135, 181-190	4	6
21	Analysis of phytosteryl and phytostanyl fatty acid esters in enriched dairy foods: a combination of acid digestion, lipid extraction, and on-line LC-GC. <i>European Food Research and Technology</i> , <b>2013</b> , 236, 999-1007	3.4	6

20	Analysis and sensory evaluation of jostaberry ( <i>Ribes x nidigrolaria</i> Bauer) volatiles. <i>Journal of Agricultural and Food Chemistry</i> , <b>2013</b> , 61, 9067-75	5-7	6
19	Impact of Cross-Breeding of Low Phytic Acid MIPS1 and IPK1 Soybean ( <i>Glycine max</i> L. Merr.) Mutants on Their Contents of Inositol Phosphate Isomers. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 247-257	5-7	6
18	The Importance of Sulfur-Containing Compounds to Fruit Flavors <b>1999</b> , 265-273		6
17	Phytic Acid Contents and Metabolite Profiles of Progenies from Crossing and Rice (L.) Mutants. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 11805-11814	5-7	5
16	Identification of Acyl Chain Oxidation Products upon Thermal Treatment of a Mixture of Phytosteryl/-stanyl Linoleates. <i>Journal of Agricultural and Food Chemistry</i> , <b>2016</b> , 64, 9214-9223	5-7	5
15	Determination of the Absolute Configurations and Sensory Properties of the Enantiomers of a Homologous Series (C6-C10) of 2-Mercapto-4-alkanones. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 1187-1196	5-7	4
14	Impact of cross-breeding of low phytic acid rice ( <i>Oryza sativa</i> L.) mutants with commercial cultivars on the phytic acid contents. <i>European Food Research and Technology</i> , <b>2019</b> , 245, 707-716	3-4	4
13	Quantitation of Acyl Chain Oxidation Products Formed upon Thermo-oxidation of Phytosteryl/-stanyl Oleates and Linoleates. <i>Journal of Agricultural and Food Chemistry</i> , <b>2017</b> , 65, 2435-2442	5-7	3
12	Distributions of the Stereoisomers of $\beta$ -Mercaptoheptanones and $\beta$ -Mercaptoheptanols in Cooked Bell Pepper ( <i>Capsicum annum</i> ). <i>Journal of Agricultural and Food Chemistry</i> , <b>2017</b> , 65, 10250-10257	5-7	3
11	Absolute Configurations and Sensory Properties of the Stereoisomers of a Homologous Series (C6-C10) of 2-Mercapto-4-alkanols. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 2738-2746	5-7	2
10	Occurrence of 4-methoxy-2-methyl-2-butanethiol in blackcurrant ( <i>Ribes nigrum</i> L.) berries. <i>Flavour and Fragrance Journal</i> , <b>2016</b> , 31, 438-441	2-5	2
9	Strategies for UHPLC-MS/MS-Based Analysis of Different Classes of Acyl Chain Oxidation Products Resulting from Thermo-Oxidation of Sitostanyl Oleate. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 12072-12083	5-7	2
8	Assessment of dietary exposure to flavouring substances via consumption of flavoured teas. Part II: transfer rates of linalool and linalyl esters into Earl Grey tea infusions. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , <b>2014</b> , 31, 207-17	3-2	2
7	Impact of thermooxidation of phytosteryl and phytostanyl fatty acid esters on cholesterol micellarization in vitro. <i>Steroids</i> , <b>2017</b> , 125, 81-92	2-8	1
6	Analytical and Sensory Characterization of the Stereoisomers of 3-Mercaptocycloalkanones and 3-Mercaptocycloalkanols. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 7184-7193	5-7	0
5	Stability of the Metabolite Signature Resulting from the MIPS1 Mutation in Low Phytic Acid Soybean ( <i>Glycine max</i> L. Merr.) Mutants upon Cross-Breeding. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 5043-5052	5-7	
4	GC and On-line LC-GC: Useful Tools for the Qualitative and Quantitative Analysis of Phytosterols and Their Esters. <i>ACS Symposium Series</i> , <b>2014</b> , 257-270	0-4	
3	Authentication of Foods Enriched with Plant Sterols/Stanol and Their Esters. <i>ACS Symposium Series</i> , <b>2011</b> , 177-187	0-4	

- 2 Metabolite Profiling of Cereals  $\square$  A Promising Tool for the Assessment of Grain Quality and Safety. *ACS Symposium Series*, **2011**, 55-75 0.4
- 1 Methods for Detection of Genetically Modified Organisms in Composite and Processed Foods **2006**, 219-247