Matthias Koch

List of Publications by Year
in descending order

41 papers	878 citations	567281 15 h-index	477307 29 g-index
41 all docs	41 docs citations	41 times ranked	1156 citing authors

#	Article	IF	Citations
1	Determination of mycotoxins in foods: current state of analytical methods and limitations. Applied Microbiology and Biotechnology, 2010, 86, 1595-1612.	3.6	194
2	Determination of Total Sulfite in Wine by Ion Chromatography after In-Sample Oxidation. Journal of Agricultural and Food Chemistry, 2010, 58, 9463-9467.	5.2	145
3	Biotransformation of the mycotoxin zearalenone by fungi of the genera<i>Rhizopus</i>and<i>Aspergillus</i>. FEMS Microbiology Letters, 2014, 359, 124-130.	1.8	62
4	Estrogenicity of novel phase I and phase II metabolites of zearalenone and cis-zearalenone. Toxicon, 2015, 105, 10-12.	1.6	53
5	Automated solid-phase extraction coupled online with HPLC-FLD for the quantification of zearalenone in edible oil. Analytical and Bioanalytical Chemistry, 2015, 407, 3489-3497.	3.7	50
6	Photochemical <i>trans</i>-/<i>cis</i>-Isomerization and Quantitation of Zearalenone in Edible Oils. Journal of Agricultural and Food Chemistry, 2012, 60, 11733-11740.	5.2	29
7	Biosynthesis and Characterization of Zearalenone-14-Sulfate, Zearalenone-14-Glucoside and Zearalenone-16-Glucoside Using Common Fungal Strains. Toxins, 2018, 10, 104.	3.4	29
8	Dynamic covalent hydrazine chemistry as a selective extraction and cleanup technique for the quantification of the Fusarium mycotoxin zearalenone in edible oils. Journal of Chromatography A, 2010, 1217, 2206-2215.	3.7	27
9	Transformation Products of Organic Contaminants and Residuesâ€"Overview of Current Simulation Methods. Molecules, 2019, 24, 753.	3.8	22
10	Development of Two Certified Reference Materials for Acrylamide Determination in Foods. Journal of Agricultural and Food Chemistry, 2009, 57, 8202-8207.	5.2	18
11	Electrochemistry coupled online to liquid chromatography-mass spectrometry for fast simulation of biotransformation reactions of the insecticide chlorpyrifos. Analytical and Bioanalytical Chemistry, 2017, 409, 3359-3368.	3.7	18
12	Detection of a Toxic Methylated Derivative of Phomopsin A Produced by the Legume-Infesting Fungus <i>Diaporthe toxica</i>. Journal of Natural Products, 2017, 80, 1930-1934.	3.0	18
13	Toxicity Assay for Citrinin, Zearalenone and Zearalenone-14-Sulfate Using the Nematode Caenorhabditis elegans as Model Organism. Toxins, 2018, 10, 284.	3.4	17
14	Certification of reference materials for ochratoxin A analysis in coffee and wine. Accreditation and Quality Assurance, 2011, 16, 429-437.	0.8	16
15	Prediction of biotransformation products of the fungicide fluopyram by electrochemistry coupled online to liquid chromatography-mass spectrometry and comparison with in vitro microsomal assays. Analytical and Bioanalytical Chemistry, 2018, 410, 2607-2617.	3.7	16
16	Formation of Zearalenone Metabolites in Tempeh Fermentation. Molecules, 2019, 24, 2697.	3.8	16
17	A Comparison of Chromatographic Methods for the Determination of Deoxynivalenol in Wheat. Chromatographia, 2009, 69, 1457-1462.	1.3	14
18	<i>In Vitro</i> Phase I Metabolism of <i>cis</i>-Zearalenone. Chemical Research in Toxicology, 2014, 27, 1972-1978.	3.3	14

#	Article	IF	Citations
19	Glucosylation and Glutathione Conjugation of Chlorpyrifos and Fluopyram Metabolites Using Electrochemistry/Mass Spectrometry. Molecules, 2019, 24, 898.	3.8	14
20	Development and certification of a reference material for Fusarium mycotoxins in wheat flour. Analytical and Bioanalytical Chemistry, 2013, 405, 4755-4763.	3.7	13
21	T-2 and HT-2 toxins in oat flakes: development of a certified reference material. Analytical and Bioanalytical Chemistry, 2015, 407, 2997-3007.	3.7	10
22	Co-Cultivation of Fusarium, Alternaria, and Pseudomonas on Wheat-Ears Affects Microbial Growth and Mycotoxin Production. Microorganisms, 2021, 9, 443.	3.6	10
23	Investigation of Chlorpyrifos and Its Transformation Products in Fruits and Spices by Combining Electrochemistry and Liquid Chromatography Coupled to Tandem Mass Spectrometry. Food Analytical Methods, 2018, 11, 2657-2665.	2.6	9
24	Electrochemical simulation of biotransformation reactions of citrinin and dihydroergocristine compared to UV irradiation and Fenton-like reaction. Analytical and Bioanalytical Chemistry, 2017, 409, 4037-4045.	3.7	8
25	New Photodegradation Products of the Fungicide Fluopyram: Structural Elucidation and Mechanism Identification. Molecules, 2018, 23, 2940.	3.8	8
26	Complexes of the Mycotoxins Citrinin and Ochratoxin A with Aluminum Ions and their Spectroscopic Properties. Toxins, 2018, 10, 538.	3.4	6
27	Development of certified reference materials for the determination of cadmium and acrylamide in cocoa. Analytical and Bioanalytical Chemistry, 2020, 412, 4659-4668.	3.7	6
28	Development and certification of a reference material for zearalenone in maize germ oil. Analytical and Bioanalytical Chemistry, 2021, 413, 5483-5491.	3.7	5
29	Structural annotation of electro- and photochemically generated transformation products of moxidectin using high-resolution mass spectrometry. Analytical and Bioanalytical Chemistry, 2020, 412, 3141-3152.	3.7	4
30	CCQM-K146 low-polarity analyte in high fat food: benzo[a]pyrene in olive oil. Metrologia, 2020, 57, 08017.	1.2	4
31	Development of a certified reference material for the determination of polycyclic aromatic hydrocarbons (PAHs) in rubber toy. Analytical and Bioanalytical Chemistry, 2022, 414, 4369-4378.	3.7	4
32	First Synthesis of (â^')-Altenuene-D3 Suitable as Internal Standard for Isotope Dilution Mass Spectrometry. Molecules, 2019, 24, 4563.	3.8	3
33	Cleaving Ergot Alkaloids by Hydrazinolysisâ€"A Promising Approach for a Sum Parameter Screening Method. Toxins, 2021, 13, 342.	3.4	3
34	LC-HRMS-Based Identification of Transformation Products of the Drug Salinomycin Generated by Electrochemistry and Liver Microsome. Antibiotics, 2022, 11, 155.	3.7	3
35	Trends in selected fields of reference material production. Analytical and Bioanalytical Chemistry, 2022, 414, 4281-4289.	3.7	3
36	Feasibility studies for the preparation and certification of reference materials Part II: mineral oil contaminated waste materials. Accreditation and Quality Assurance, 2006, 11, 122-129.	0.8	2

#	Article	IF	Citations
37	Prediction of Transformation Products of Monensin by Electrochemistry Compared to Microsomal Assay and Hydrolysis. Molecules, 2019, 24, 2732.	3.8	2
38	Diastereoselective synthesis of (Â±)-trichodiene and (Â±)-trichodiene-D₃ as analytical standards for the on-site quantification of trichothecenes. Organic and Biomolecular Chemistry, 2021, 19, 9872-9879.	2.8	1
39	Concise Synthesis of Alternariol and Alternariol-9-monomethyl ether as well as their D3-Isotopologues. Synthesis, 0, , .	2.3	1
40	Analysis of electrochemical and liver microsomal transformation products of lasalocid by LC/HRMS. Rapid Communications in Mass Spectrometry, 2022, 36, .	1.5	1
41	Synthesis and Structural Identification of a Biaryl Ether-Linked Zearalenone Dimer. Molecules, 2018, 23, 2624.	3.8	0