

## Elektrochemie / Massenspektrometrie - Publikationen

2014	Autoren	Titel	Journal	Anfragenr.
	Herbert Oberacher, Florian Pitterl	Life Science Applications of Electrochemistry Coupled to Liquid Chromatography-Mass Spectrometry	LC/GC special issues, Volume 39 Issue 10	24080000
	Simone Nicolardi, Andre M. Deelder, Magnus Palmblad, Yuri E. M. van der Burgt	Structural Analysis of an Intact Monoclonal Antibody by Online Electrochemical Reduction of Disulfide Bonds and Fourier Transform Ion Cyclotron Resonance Mass Spectrometry	Analytical Chemistry, 2014	ac500383c
	Marek Smoluch, Przemyslaw Mielczarek, Edward Reszke, Gary M. Hieftje, Jerzy Silberring	Determination of psychostimulants and their metabolites by electrochemistry linked on-line to flowing atmospheric pressure afterglow mass spectrometry	Analyst., 2014 Sep 7	24300000
	Przemyslaw Mielczarek, Hana Raoof, Jolanta H. Kotlinska, Piotr Stefanowicz, Zbigniew Szewczuk, Piotr Suder, Jerzy Silberring	Electrochemical simulation of cocaine metabolism - a step towards predictive toxicology for drugs of abuse	European Journal of Mass Spectrometry, Volume 20 Issue 4	24300001
2013	Autoren	Titel	Journal	Anfragenr.
	Mysling S, Salbo R, Ploug M, Jørgensen T.J.	Electrochemical reduction of disulfide-containing proteins for hydrogen/deuterium exchange monitored by mass spectrometry	Analytical Chemistry, 2013 Nov 19	24251601
	Roeser J, Alting NF, Permentier HP, Bruins AP, Bischoff R.	Boron-doped diamond electrodes for the electrochemical oxidation and cleavage of peptides	Analytical Chemistry, 2014 Jul 16	23763302
	Liu P, Lu M, Zheng Q, Zhang Y, DewaldHD, Chen H.	Recent advances of electrochemical mass spectrometry	Analyst., 2013 Oct 7	23896946
	Falck D, Oosthoek-de Vries AJ, Kolkman A, Lingeman H, Honing M, Wijmenga SS, Kentgens AP, Niessen WM	EC-SPE-stripline-NMR analysis of reactive products: a feasibility study	Analytical and Bioanalytical Chemistry, 2013 Aug	23812883
	Nicolardi S, Giera M, Kooijman P, Kraj A, Chervet JP, Deelder AM, van der Burgt YE.	On-Line Electrochemical Reduction of Disulfide Bonds: Improved FTICR-CID and -ETD Coverage of Oxytocin and Hepcidin	Journal of the American Society for Mass Spectrometry, 2013 Sep 10	24018861
	Kraj A, Brouwer HJ, Reinhoud N, Chervet JP.	A novel electrochemical method for efficient reduction of disulfide bonds in peptides and proteins prior to MS detection	Analytical and Bioanalytical Chemistry, 2013 Sep 29	24077854
	Martin A. Giera; Simone Nicolardi; Pieter Kooijman; Agnieszka Kraj; Jean-Pierre Chervet; Andre M. Deelder; Yuri E.M. van der Burgt	Online Electrochemical Reduction of the Disulfide Bond(s) in Oxytocin and Hepcidin Results in Different CID and ETD Fragmentation Spectra	ASMS 2013 poster	24300002

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2012	Autoren	Titel	Journal	Anfragenr.
	Faber H, Melles D, Brauckmann C, Wehe CA, Wentker K, Karst U.	Simulation of the oxidative metabolism of diclofenac by electrochemistry/(liquid chromatography/)mass spectrometry	Analytical and Bioanalytical Chemistry, 2012 Apr	22227826
	Falck D, de Vlieger JS, Giera M, Honing M, Irth H, Niessen WM, Kool J.	On-line electrochemistry-bioaffinity screening with parallel HR-LC-MS for the generation and characterization of modified p38 $\alpha$ kinase inhibitors	Analytical and Bioanalytical Chemistry, 2012 Apr	22227812
	Melles D, Vielhaber T, Baumann A, Zazzeroni R, Karst U.	Electrochemical oxidation and protein adduct formation of aniline: a liquid chromatography/mass spectrometry study	Analytical and Bioanalytical Chemistry, 2012 Apr	22227746
	Lu M, Wolff C, Cui W, Chen H.;	Investigation of some biologically relevant redox reactions using electrochemical mass spectrometry interfaced by desorption electrospray ionization	Analytical and Bioanalytical Chemistry, 2012 Apr	22237914
	Vogel M, Karst U.	Electrochemistry-mass spectrometry: an emerging hyphenated technique for bioanalysis	Analytical and Bioanalytical Chemistry, 2012 Apr	22370588
	Erb R, Plattner S, Pitterl F, Brouwer HJ, Oberacher H.	An optimized electrochemistry-liquid chromatography-mass spectrometry method for studying guanosine oxidation	Electrophoresis, 2012 Feb	22451054
	Zhang Y, Cui W, Zhang H, Dewald HD, Chen H.	Electrochemistry-assisted top-down characterization of disulfide-containing proteins	Analytical Chemistry, 2012 Apr 17	22448817
	Telgmann L, Faber H, Jahn S, Melles D, Simon H, Sperling M, Karst U.	Identification and quantification of potential metabolites of Gd-based contrast agents by electrochemistry/separations/mass spectrometry	Journal of Chromatography A., 2012 Jun 1	22525874
	Jahn S, Faber H, Zazzeroni R, Karst U.	Electrochemistry/liquid chromatography/mass spectrometry to demonstrate irreversible binding of the skin allergen p-phenylenediamine to proteins	Rapid Communications in Mass Spectrometry, 2012 Jun 30	22592985
	Jahn S, Faber H, Zazzeroni R, Karst U.	Electrochemistry/mass spectrometry as a tool in the investigation of the potent skin sensitizer p-phenylenediamine and its reactivity toward nucleophiles	Rapid Communications in Mass Spectrometry, 2012 Jun 30	22592989
	Jahn S, Karst U.	Electrochemistry coupled to (liquid chromatography/) mass spectrometry- current state and future perspectives	Journal of Chromatography A. 2012 Oct 12	22704885
	Plattner S, Erb R, Chervet JP, Oberacher H.	Ascorbic acid for homogenous redox buffering in electrospray ionization-mass spectrometry	Analytical and Bioanalytical Chemistry, 2012 Sep	22772139
	Chen L, Hofmann D, Klumpp E, Xiang X, Chen Y, Küppers S.	Bottom-up approach for the reaction of xenobiotics and their metabolites with model substances for natural organic matter by electrochemistry-mass spectrometry (EC-MS)	Chemosphere, 2012 Nov	22819944
	Simon H, Melles D, Jacquilleot S, Sanderson P, Zazzeroni R, Karst U.	Combination of electrochemistry and nuclear magnetic resonance spectroscopy for metabolism studies	Analytical Chemistry, 2012 Oct 16	22971210
	Odijk M, Olthuis W, van den Berg A, Qiao L, Girault H.	Improved conversion rates in drug screening applications using miniaturized electrochemical cells with frit channels	Analytical Chemistry, 2012 Nov 6	23020795
	Jahn S, Seiwert B, Kretzing S, Abraham G, Regenthal R, Karst U.	Metabolic studies of the Amaryllidaceous alkaloids galantamine and lycorine based on electrochemical simulation in addition to in vivo and in vitro models	Analytica Chimica Acta, 2012 Dec 5	23176740

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	Melles D, Vielhaber T, Baumann A, Zazzeroni R, Karst U.	In chemico evaluation of skin metabolism: Investigation of eugenol and isoeugenol by electrochemistry coupled to liquid chromatography and mass spectrometry	Journal of Chromatogr B., Analyt Technol Biomed Life Sci. 2013 Jan 15	23286982
	Brauckmann C, Faber H, Lanvers-Kaminsky C, Sperling M, Karst U.	Influence of cimetidine and its metabolites on Cisplatin--investigation of adduct formation by means of electrochemistry/liquid chromatography/electrospray mass spectrometry	Journal of Chromatography A. 2013 Mar 1	23352827
	Plattner S, Erb R, Chervet JP, Oberacher H.	Ascorbic acid for homogenous redox buffering in electrospray ionization-mass spectrometry	Analytical and Bioanalytical Chemistry, 2012 Sep	22772139
2011	Autoren	Titel	Journal	Anfragenr.
	Baumann A, Lohmann W, Schubert B, Oberacher H, Karst U.	Metabolic studies of tetrazepam based on electrochemical simulation in comparison to in vivo and in vitro methods	Journal of Chromatography A., 2011	19233363
	Baumann A, Karst U.	Online electrochemistry/mass spectrometry in drug metabolism studies: principles and applications	Expert Opinion on Drug Metabolism & Toxicology	20370599
	Pitterl F, Chervet JP, Oberacher H.	Electrochemical simulation of oxidation processes involving nucleic acids monitored with electrospray ionization-mass spectrometry	Analytical and Bioanalytical Chemistry, 2010 Jun	20393841
	Baumann A, Lohmann W, Rose T, Ahn KC, Hammock BD, Karst U, Schebb NH.	Electrochemistry-mass spectrometry unveils the formation of reactive trichloroacetyl metabolites	Drug Metabolism and Disposition, 2010 Dec	20861155
	Hoffmann T, Hofmann D, Klumpp E, Küppers S.	Electrochemistry-mass spectrometry for mechanistic studies and simulation of oxidation processes in the environment	Analytical and Bioanalytical Chemistry, 2011 Feb	21170519
	Zhang Y, Dewald HD, Chen H.	Online mass spectrometric analysis of proteins/peptides following electrolytic cleavage of disulfide bonds	Journal of Proteome Research, 2011 Mar 4	21197958
	Zhang Y, Yuan Z, Dewald HD, Chen H.	Coupling of liquid chromatography with mass spectrometry by desorption electrospray ionization (DESI)	Chemical Communications (Camb), 2011 Apr 14	21359310
	Baumann A, Faust A, Law MP, Kuhlmann MT, Kopka K, Schäfers M, Karst U.	Metabolite identification of a radiotracer by electrochemistry coupled to liquid chromatography with mass spectrometric and radioactivity detection	Analytical Chemistry, 2011 Jul 1	21615156
	de Vlieger JS, Giezen MJ, Falck D, Tump C, van Heuveln F, Giera M, Kool J, Lingeman H, Wieling J, Honing M, Irth H, Niessen WM.	High temperature liquid chromatography hyphenated with ESI-MS and ICP-MS detection for the structural characterization and quantification of halogen containing drug metabolites	Analytica Chimica Acta, 2011 Jul 18	21645661
	Plattner S, Erb R, Pitterl F, Brouwer HJ, Oberacher H.	Formation and characterization of covalent guanosine adducts with electrochemistry-liquid chromatography-mass spectrometry	Journal of Chromatography B., Analyt Technol Biomed Life Science, 2012 Feb 1	22000962
	Faber H, Jahn S, Künnemeyer J, Simon H, Melles D, Vogel M, Karst U.	Electrochemistry/liquid chromatography/mass spectrometry as a tool in metabolism studies	Angewandte Chemie, Int Ed engl., 2011 Sep 5	22022718
	Jahn S, Baumann A, Roscher J, Hense K, Zazzeroni R, Karst U.	Investigation of the biotransformation pathway of verapamil using electrochemistry/liquid chromatography/mass spectrometry - a comparative study with liver cell microsomes	Journal Chromatography A. 2011 Dec 23	22098935