



List of publications

This thesis is based on the following papers, which have been or will be published as regular contributions to scientific journals:

- Chapter 2:** S. de Koning, H.-G. Janssen, U.A.Th. Brinkman, “Modern methods of sample preparation for gas chromatographic analyses”, submitted to *Chromatographia*.
- Chapter 3:** S. de Koning, M. van Lieshout, H.-G. Janssen, U.A.Th. Brinkman, “Programmable temperature vaporization interface for on-line trace-level enrichment–GC–MS of micropollutants in surface water”, *J. Microcol. Sep.*, 12 (2000) 153.
- Chapter 4:** S. de Koning, B. van der Meer, G. Alkema, H.-G. Janssen, U.A.Th. Brinkman, “Automated determination of fatty acid methyl ester and *cis/trans* methyl ester composition of fats and oils”, *J. Chromatogr. A*, 922 (2001) 391.
- Chapter 5:** S. de Koning, P. Blokker, P. Jüngel, G. Alkema, U.A.Th. Brinkman, “Automated liner exchange – a novel approach in direct thermal desorption–gas chromatography”, *Chromatographia*, 56 (2002) 185.
- Chapter 6:** S. de Koning, G. Lach, M. Linkerhägner, R. Löscher, P.H. Tablack, U.A.Th. Brinkman, “Trace-level determination of pesticides in food using difficult matrix introduction–gas chromatography–time-of-flight mass spectrometry”, *J. Chromatogr. A*, 1008 (2003) 247.
- Chapter 7:** S. de Koning, M. Kurano, H.-G. Janssen, U.A.Th. Brinkman, “AT-column, a novel concentrating technique for large-volume injections in gas chromatography”, *J. Chromatogr. A*, 1023 (2004) 165.
- Chapter 8:** S. de Koning, H.-G. Janssen, M. van Deursen, U.A.Th. Brinkman, “Automated on-line comprehensive two-dimensional LC×GC and LC×GC–ToF MS: instrument design and application to edible oil and fat analysis”, *J. Sep. Sci.*, 27 (2004) 397.
- Chapter 9:** S. de Koning, H.-G. Janssen, U.A.Th. Brinkman, “Group-type characterization of mineral oil samples by two-dimensional comprehensive normal-phase liquid chromatography–gas chromatography with time-of-flight mass spectrometric detection”, *J. Chromatogr. A*, 1058 (2004) 217.

- Chapter 10:** S. de Koning, E. Kaal, H.-G. Janssen, Ch. van Platerink, U.A.Th. Brinkman, “Characterization of olive oil volatiles by multi-step direct thermal desorption–comprehensive gas chromatography–time-of-flight mass spectrometry using a programmed temperature vaporizing injector”, *J. Chromatogr. A*, 1186 (2008) 228.
- Chapter 11:** S. de Koning, H.-G. Janssen, U.A.Th. Brinkman, “Characterization of triacylglycerides from edible oils and fats using single and multidimensional techniques”, *LC·GC Eur.*, November (2006) 590.

**Additional papers:**

S. de Koning, A.C. Hogenboom, T. Lacker, S. Strohschein, K. Albert, U.A.Th. Brinkman, “On-line trace enrichment in hyphenated liquid chromatography–nuclear magnetic resonance spectroscopy”, *J. Chromatogr. A*, 813 (1998) 55.

P. Jüngel, S. de Koning, U.A.Th. Brinkman, E. Melcher, “Analyses of the wood preservative component *N*-cyclohexyldiazoniumdioxide in impregnated pine sapwood by direct thermal desorption–gas chromatography–mass spectrometry”, *J. Chromatogr. A*, 953 (2002) 199.

S. de Koning, R. Löscher, P.H. Tablack, “Pestizidanalytik in Trauben mit LV-DTD/DMI–GC/TOF-MS”, *LaborPraxis*, December (2002) 66.

H.-G. Janssen, S. de Koning, U.A.Th. Brinkman, “On-line LC–GC and comprehensive two-dimensional LC×GC–ToF MS for the analysis of complex samples”, *Anal. Bioanal. Chem.*, 378 (2004) 1944.

S. Bergmann, A. Kreißel, M. Gumpendobler, S. de Koning, “Advanced routine method for the analysis of pesticide residues by LV-PTV–GC–TOFMS and LV-PTV–GC×GC–TOFMS”, *Int. Labmate*, October (2007) 61.

J.H. Marsman, J. Wildschut, P. Evers, S. de Koning, H.J. Heeres, “Identification and classification of components in flash pyrolysis oil and hydrodeoxygenated oils by two-dimensional gas chromatography and time-of-flight mass spectrometry”, *J. Chromatogr. A.*, 1188 (2008) 17.

E.R. Kaal, S. de Koning, S. Brudin, H.-G. Janssen, “A fully automated system for the gas chromatographic characterization of polar biopolymers based on thermally-assisted hydrolysis and methylation”, *J. Chromatogr. A.*, 1201 (2008) 169.

H.-G. Janssen, E.R. Kaal, S. de Koning, “Comprehensive multidimensional systems incorporating GC×GC”, in: “Comprehensive two dimensional gas chromatography”, ed., L. Ramos, In preparation.