

## Publikationen

- J. Bergrath, J. Rumpf, R. Burger, X.T. Do, M. Wirtz, M. Schulze  
**Beyond Yield Optimization: The Impact of Organosolv Process Parameters on Lignin Structure**  
Macro Molecular Materials and Engineering (2023)  
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- A. Jaekel, M. Legelli, M. Wirtz, D. Meyer, N. Schröder, K. Streckel, S. Lamotte  
**Selectivity optimization in liquid chromatography via stationary phase tuning**  
Journal of Separation Science (2023) doi.org/10.1002/jssc.202300204
- A. Jaekel, M. Wirtz, S. Lamotte, M. Legelli  
**Performance in (Ultra-)high-performance liquid chromatography—How to qualify and optimize instruments in practice**  
Journal of Separation Science (2023) doi.org/10.1002/jssc.202200894
- J. Hinz, T.F. Mekonnen, J. Bergrath, S. Sewell, Y. Schneck, M. Wirtz, U. Telgheder  
**Analysis of nine Nitrosamines relevant to Occupational Safety by Ion Mobility Spectroscopy and Preliminary Gas Chromatographic Separation**  
Social Science Research Network (2023)  
[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=4364640](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4364640)
- S. Lamotte, M. Legelli, M. Wirtz  
**Eine grüne Alternative zu HILIC-HPLC**  
Mitteilungsblatt der Fachgruppe Analytische Chemie der GDCh (2023)
- A. Jaekel, S. Lamotte, M. Legelli, M. Wirtz  
**Leistungssteigerung in der HPLC – Wie Kapillaren und Partikeltechnologie das Chromatogramm verbessern**  
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- O.J. Schmitz, V. Wulf, L. Hyzak, M. Wirtz, D. Melchior, H.W. Kling, S. Gäb  
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- V. Elsner, V. Wulf, M. Wirtz, O.J. Schmitz  
**Reproducibility of retention time and peak area in comprehensive two-dimensional liquid chromatography**  
Analytical and Bioanalytical Chemistry (2015) 407, 279-284
- M. Hloucha, J. Menzer, W. Seipel, D. Prinz, E. Küsters, M. Wirtz  
**Verwendung von Mikroemulsionen in kosmetischen Reinigungsmitteln**  
EU-Patent (2015) Application No.: 11005589.4
- L. Hyzak, R. Moos, F. von Rath, V. Wulf, M. Wirtz, D. Melchior, H.-W. Kling, M. Köhler, S. Gäb, O. J. Schmitz  
**Quantitative Matrix-Assisted Laser Desorption Ionization-Time-of-Flight Mass Spectrometry Analysis of Synthetic Polymers and Peptides**  
Analytical Chemistry (2011), 83, 9467-9471

Dücker, R., Wulf, V., Geißler, M., Baier, H.-U., Wirtz, M.; Kling, H.-W., Gäb, S., Schmitz, O.J.

**„Combination of chemical and electron-impact ionization with GCxGC-qMS for the characterization of fatty alcohol alkoxylate polymers in the low molecular range up to 700 Da“;**

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Wulf, V., Wienand, N., Wirtz, M., Kling, H.-W., Gäb, S., Schmitz, O.J.

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**„Capillary electrophoresis-laser induced fluorescence analysis of endogenous DNA damage in mitochondrial and genomic DNA“;**

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Im Zeitraum 2008-2013 wurde zusätzlich zu o.a. Publikationen an Projekten im Bereich Produktcharakterisierung bzw. -wirkung gearbeitet, die aufgrund verschiedener Industrieinteressen nicht in wissenschaftlichen Fachzeitschriften publiziert werden konnten.