

Peer reviewed publications *Philipp Schulze*

2017

15. [Configurationally Stable Chiral Dithia-Bridged Hetero\[4\]helicene Radical Cation: Electronic Structure and Absolute Configuration](#)
M. Kivala, B.D. Gliemann, A.G. Petrovic, E.M. Zolnhofer, P.O. Dral, F. Hampel, G. Breitenbruch, P. Schulze, V. Raghavan, K. Meyer, P.L. Polavarapu, N. Berova
Chemistry – An Asian Journal **12**, 31-35 (2017)
DOI: 10.1002/asia.201601452

2015

14. [Surface modification of PDMS microfluidic devices by controlled sulfuric acid treatment and the application in chip electrophoresis](#)
L. Gitlin, P. Schulze, S. Ohla, H.-J. Bongard, D. Belder
Electrophoresis **36**, 449-456 (2015)
DOI: 10.1002/elps.201400269

2013

13. [Synergistic Effect of Ketone and Hydroperoxide in Brønsted Acid Catalyzed Oxidative Coupling Reactions](#)
B. Schweitzer-Chaput, A. Sud, A. Pintér, S. Dehn, P. Schulze, M. Klussmann
Angew. Chem. Int. Ed. **52**, 13228-13232 (2013)
DOI: 10.1002/anie.201306752
Angew. Chem. **125**, 13470-13474 (2013)
DOI: 10.1002/ange.201306752

2011

12. [Microfluidic chips for chirality exploration](#)
S. Nagl, P. Schulze, L. Gitlin, D. Belder
Anal. Chem. **83**, 3232–3238 (2011)
DOI: 10.1021/ac200150w

11. [Chip electrophoresis of active banana ingredients with label-free detection utilizing deep UV native fluorescence and mass spectrometry](#)
S. Ohla, P. Schulze, S. Fritzsche, D. Belder
Anal. Bioanal. Chem. **399**, 1853-1857 (2011)
DOI: 10.1007/s00216-010-4557-z

2010

10. [Gas Chemical Studies Using Corona Discharge Reactors](#)
P. Schulze, A. Stankiewicz, M. Aicher, M. Mattner, A. Ulrich
Eur. Phys. J. D. **60**, 637-644 (2010)
DOI: 10.1140/epjd/e2010-00235-0
9. [A new weakly basic amino-reactive fluorescent label for use in isoelectric focusing and chip electrophoresis](#)
P. Schulze, M. Link, M. Schulze, S. Thürmann, O.S. Wolfbeis, D. Belder
Electrophoresis **31**, 2749-2753 (2010)
DOI: 10.1002/elps.201000007

2009

8. [Rapid replication of master structures by double casting with PDMS](#)
L. Gitlin, P. Schulze, D. Belder
Lab Chip **9**, 3000-3002 (2009)
DOI: 10.1039/B904684D
7. [Progress in microchip enantioseparations](#)
S. Nagl, P. Schulze, M. Ludwig, D. Belder
Electrophoresis. **30**, 2765-2772 (2009)
DOI: 10.1002/elps.200900153
6. [New diode laser-excitable green fluorescent label and its application to detection of bovine serum albumin via microchip electrophoresis](#)
M. Link, P. Schulze, D. Belder, O.S. Wolfbeis
Microchim. Acta **166**, 183-188 (2009)
DOI: 10.1007/s00604-009-0169-8

5. [Label-free fluorescence detection in capillary and microchip electrophoresis](#)

P. Schulze, D. Belder

Anal. Bioanal. Chem. **393**, 515-525 (2009)

DOI: 10.1007/s00216-008-2452-7

2008

4. [Impact of laser excitation intensity on deep UV fluorescence detection in microchip electrophoresis](#)

P. Schulze, M. Ludwig, D. Belder

Electrophoresis **29**, 4894-4899 (2008)

DOI: 10.1002/elps.200800179

2007

3. [Microfluidic glass chips with an integrated nanospray emitter for coupling to a mass spectrometer](#)

P. Hoffmann, U. Häusig, P. Schulze, D. Belder

Angew. Chem. Int. Ed. **46**, 4913-4916 (2007)

DOI: 10.1002/anie.200605152

Angew. Chem. **119**, 5000-5003 (2007)

DOI: 10.1002/ange.200605152

2. [Two-photon excited fluorescence detection at 420 nm for label-free detection of small aromatics and proteins in microchip electrophoresis](#)

P. Schulze, M. Schüttpelz, M. Sauer, D. Belder

Lab Chip **7**, 1841-1844 (2007)

DOI: 10.1039/B710762E

2005

1. [Deep UV laser-induced fluorescence detection of unlabeled drugs and proteins in microchip electrophoresis](#)

P. Schulze, M. Ludwig, F. Kohler, D. Belder

Anal. Chem. **77**, 1325-1329 (2005)

DOI: 10.1021/ac048596m

Peer reviewed publications of *current co-workers*

2007

[Helical microstructure of polynorbornene](#)

C. Karafilidis, K. Angermund, B. Gabor, A. Ruffńska, R. Mynott, G. Breitenbruch, W. Thiel, G. Fink

Angew. Chem. **119**, 3819-3923 (2007)

Angew. Chem. Int. Ed. **46**, 3745-3749 (2007)

2006

[Coating of powder-blasted channels for high-performance microchip electrophoresis](#)

D. Belder, F. Kohler, M. Ludwig, K. Tolba, N. Piehl

Electrophoresis **27**, 3277-3283 (2006)

2005

Metalloenkatalysierte C7-Verknüpfung bei der Hydrooligomerisierung von Norbornen durch σ -Bindungs-Metathese: Endlich Einblick in die Mikrostruktur von Polynorbornenen

G. Fink, C. Karafilidis, K. Angermund, G. Breitenbruch, B. Gabor, H. Hermann, W. Jopek, R. Mynott, A. Ruffńska, J. Rust, W. Thiel

Macromol. Rapid Commun. **26**, F45-F46 (2005)

2004

[Metalloenkatalysierte C7-Verknüpfung in der Hydrooligomerisierung von Norbornenen durch \$\sigma\$ -Bindungs-Metathese: Einblick in die Mikrostruktur von Polynorbornen](#)

C. Karafilidis, H. Hermann, A. Ruffńska, B. Gabor, R. Mynott, G. Breitenbruch, C.

Weidenthaler, J. Rust, W. Jopek, M.S. Brookhart, W. Thiel, G. Fink

Angew. Chem. **116**, 2498-2500 (2004)

Angew. Chem. Int. Ed. **43**, 2444-2446 (2004)

[Directed evolution of cyclohexanone monooxygenases: Enantioselective biocatalysts for the oxidation of prochiral thioethers](#)

M.T. Reetz, F. Daligault, B. Brunner, H. Hinrichs, A. Deege

Angew. Chem. **116**, 4170-4173 (2004)

Angew. Chem. Int. Ed. **43**, 4078-4081 (2004)

2003

[High-speed chiral separations on a microchip with UV detection](#)

M. Ludwig, F. Kohler, D. Belder

Electrophoresis **24**, 3233 (2003)

2002

[*Poly\(vinyl alcohol\) coated microfluidic devices for high performance microchip electrophoresis*](#)

D. Belder, A. Deege, F. Kohler, M. Ludwig
Electrophoresis **23**, 3567-3573 (2002)

[*Design and performance of a microchip electrophoresis instrument with sensitive variable wavelength fluorescence detection*](#)

D. Belder, A. Deege, M. Maass, M. Ludwig
Electrophoresis **23**, 2355-2361 (2002)

2001

[*Crosslinked poly\(vinyl alcohol\) as permanent hydrophilic column coating for capillary electrophoresis*](#)

D. Belder, A. Deege, H. Husmann, F. Kohler, M. Ludwig
Electrophoresis **22**, 3813-3818 (2001)

[*Combinatorial Discovery of New Photocatalysts for Water Purification with Visible Light*](#)

C. Lettmann, H. Hinrichs, W.F. Maier
Angew. Chem. **113**, 3258-3262 (2001)
Angew. Chem. Int. Ed. **40**, 3160-3164 (2001)

[*The development of a high throughput reactor for the catalytic screening of three phase reactions*](#)

S. Thomson, C. Hoffmann, S. Ruthe, H.-W. Schmidt, F. Schüth
Appl. Catal. A **220**, 253-264 (2001)

2000

[*Super-high-throughput screening of enantioselective catalysts by using capillary array electrophoresis*](#)

M.T. Reetz, K.M. Kühling, A. Deege, H. Hinrichs, D. Belder
Angew. Chem. **112**, 4049-4052 (2000)
Angew. Chem. Int. Ed. **39**, 3891-3893 (2000)

[*Circular dichroism as a detection method in the screening of enantioselective catalysts*](#)

M.T. Reetz, K.M. Kühling, H. Hinrichs, A. Deege
Chirality **12**, 479-482 (2000)

1997

[*Novel crown ethers with a trithiadiazapentalene-trithiotriuret redox system*](#)

H. Graubaus, F. Tittelbach, G. Lutze, K. Gloe, M. Mackrodt, T. Kruger, N. Krauss, A. Deege, H. Hinrichs
Angew. Chem. Int. Ed. **36**, 1648-1650 (1997)

1994

[Highly efficient transport of amino acids through liquid membranes via three-component supramolecules](#)

M.T. Reetz, J. Huff, J. Rudolph, K. Töllner, A. Deege, R. Goddard
J. Am. Chem. Soc. **116**, 11588-11589 (1994)

1993

[Purification and analysis of partially alkylated cyclodextrins by liquid and gas chromatography](#)

A. Deege, H. Husmann, E. Hübinger, F. Kobor, G. Schomburg
J. High Resolut. Chromatogr. **16**, 587-593 (1993)

1992

[Preparation, purification, and analysis of alkylated cyclodextrins](#)

G. Schomburg, A. Deege, H. Hinrichs, E. Hübinger, H. Husmann
High Resolut. Chromatogr. **15**, 579-584 (1992)

1991

[Characterization and stability of silanized and polymer coated octadecyl reversed phases](#)

M.J.J. Hetem, J.W. Dehaan, H.A. Claessens, C.A. Cramers, A. Deege, G. Schomburg
J. Chromatogr. **540**, 53-76 (1991)

1987

[Polymer-coating approach for HPLC stationary phases: efficiency, chemical stability, versatility](#)

J. Köhler, G. Heinemann, P. Kolla, H.W. Stuurman, A. Deege, G. Schomburg
Fresenius Z. Anal. Chem. **327**, 53-54 (1987)

1986

[Stationary phases for reversed-phase liquid chromatography. Coating of silica by polymers of various polarities](#)

H. Figge, A. Deege, J. Köhler, G. Schomburg
J. Chromatogr. **351**, 393-408 (1986)

1984

[Syntheses of stationary phases for reversed-phase LC using silanization and polymer coating](#)

U. Bien-Vogelsang, A. Deege, H. Figge, J. Köhler, G. Schomburg
Chromatographia **19**, 170-179 (1984)

[Preparative LC separation and isolation of enantiomerically pure olefins](#)

H. Köhler, A. Deege, G. Schomburg
Chromatographia **18**, 119-124 (1984)

Immobilization of stationary liquids on silica particles by γ -radiation

G. Schomburg, J. Köhler, H. Figge, A. Deege, U. Bien-Vogelsang
Chromatographia **18**, 265-274 (1984)

1983

Immobilization of stationary liquids in reversed- and normal-phase liquid chromatography.

Production and testing of materials for bonded-phase chromatography.

G. Schomburg, A. Deege, J. Köhler, U. Bien-Vogelsang
J. Chromatogr. **282**, 27-39 (1983)

1982

Gas- and liquid chromatographic separation of naphthalenophanes of the [2.2] and [3.3] type

A. Deege, B. Heinecke G. Schomburg
Chromatographia **15**, 65-70 (1982)

Crosslinking of alkylpolysiloxane films on various types of glass surfaces including fused silica using γ -radiation of a ^{60}Co Cobalt-source. Comparison to crosslinking by thermal eroxide treatment

G. Schomburg, H. Husmann, S. Ruthe, M. Herraiz
Chromatographia **15**, 599-610 (1982)