## Sander Deridder

## List of Publications by Year

 in descending orderSource: https:|/exaly.com/author-pdf/1513573/publications.pdf
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Effective medium theory expressions for the effective diffusion in chromatographic beds filled with
porous, non-porous and porous-shell particles and cylinders. Part I: Theory. Journal of
1.8

Chromatography A, 2011, 1218, 32-45.
Effective medium theory expressions for the effective diffusion in chromatographic beds filled with porous, non-porous and porous-shell particles and cylinders. Part II: Numerical verification and quantitative effect of solid core on expected B-term band broadening. Journal of Chromatography A, 2011, 1218, 46-56.
Detailed characterization of the kinetic performance of first and second generation silica monolithic
3 columns for reversed-phase chromatography separations. Journal of Chromatography A, 2014, 1325,
1.8

72-82.

A theoretical study on the advantage of core-shell particles with radially-oriented mesopores.

New insights in the velocity dependency of the external mass transfer coefficient in 2D and 3D porous

6 Design and evaluation of microfluidic devices for two-dimensional spatial separations. Journal of
Chromatography A, 2016, 1434, 127-135.
1.8

Two-dimensional insertable separation tool (TWIST) for flow confinement in spatial separations.
$7 \quad$ Two-dimensional insertable separation 1577, 120-123.
1.8

## Calculation of the geometrical three-point parameter constant appearing in the second order

$8 \quad$ accurate effective medium theory expression for the B-term diffusion coefficient in fully porous and
1.8 porous-shell random sphere packings. Journal of Chromatography A, 2012, 1223, 35-40.

9 The impact of flow distribution on column performance: A computational fluid dynamics study.
Journal of Chromatography A, 2014, 1369, 125-130.

In Situ Measurement of the Transversal Dispersion in Ordered and Disordered Two-Dimensional Pillar
3.2
3.212

Experimental and numerical study of band-broadening effects associated with analyte transfer in
microfluidic devices for spatial two-dimensional liquid chromatography created by additive microfluidic devices for spatial two-dimensional liquid chromatography created by additive
1.8 manufacturing. Journal of Chromatography A, 2019, 1598, 77-84.

12 Experimental and numerical validation of the effective medium theory for the B-term band broadening
1.8

11

## 12 in 1st and 2nd generation monolithic silica columns. Journal of Chromatography A, 2014, 1351, 46-55.

Numerical investigation of band spreading generated by flow-through needle and fixed loop sample injectors. Journal of Chromatography A, 2018, 1552, 29-42.

A microfluidic distributor combining minimal volume, minimal dispersion and minimal sensitivity to clogging. Journal of Chromatography A, 2018, 1537, 75-82.
1.8

11

