

Sander Deridder

List of Publications by Year in descending order

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27
papers

392
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840119

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752256

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27
times ranked

246
citing authors

#	ARTICLE	IF	CITATIONS
1	Detailed computational fluid dynamics study of the parameters contributing to the viscous heating band broadening in liquid chromatography at pressures up to 2500 Åbar in 2.1 mm columns. <i>Journal of Chromatography A</i> , 2022, 1661, 462683.	1.8	4
2	Review of recent insights in the measurement and modelling of the B-term dispersion and related mass transfer properties in liquid chromatography. <i>Analytica Chimica Acta</i> , 2022, 1214, 339955.	2.6	8
3	Computational fluid dynamics study of potential solutions to alleviate viscous heating band broadening in 2.1 millimeter liquid chromatography columns. <i>Journal of Chromatography A</i> , 2021, 1654, 462452.	1.8	3
4	Optimizing design and employing permeability differences to achieve flow confinement in devices for spatial multidimensional liquid chromatography. <i>Journal of Chromatography A</i> , 2020, 1612, 460665.	1.8	8
5	An explicit expression for the retention factor and velocity dependency of the mobile zone mass transfer band broadening in packed spheres beds used in liquid chromatography. <i>Journal of Chromatography A</i> , 2020, 1634, 461710.	1.8	9
6	The stability of blood eosinophils in stable chronic obstructive pulmonary disease: a retrospective study in Belgian primary care. <i>BMC Pulmonary Medicine</i> , 2020, 20, 200.	0.8	7
7	A multiscale modelling study on the sense and nonsense of thermal conductivity enhancement of liquid chromatography packings and other potential solutions for viscous heating effects. <i>Journal of Chromatography A</i> , 2020, 1620, 461022.	1.8	5
8	The checkerboard model for the Eddy-dispersion in Laminar flows through porous media. Part II: Application to ordered and disordered 2-D flow systems. <i>Journal of Chromatography A</i> , 2020, 1624, 461196.	1.8	1
9	The checkerboard model for the eddy-dispersion in laminar flows through porous media. Part I: Theory and velocity field properties. <i>Journal of Chromatography A</i> , 2020, 1624, 461195.	1.8	3
10	Experimental and numerical study of band-broadening effects associated with analyte transfer in microfluidic devices for spatial two-dimensional liquid chromatography created by additive manufacturing. <i>Journal of Chromatography A</i> , 2019, 1598, 77-84.	1.8	12
11	A Training Game for Students Considering Family Medicine: an Educational Project Report. <i>Journal of Medicine and Life</i> , 2019, 12, 411-418.	0.4	2
12	Numerical investigation of band spreading generated by flow-through needle and fixed loop sample injectors. <i>Journal of Chromatography A</i> , 2018, 1552, 29-42.	1.8	11
13	A microfluidic distributor combining minimal volume, minimal dispersion and minimal sensitivity to clogging. <i>Journal of Chromatography A</i> , 2018, 1537, 75-82.	1.8	11
14	Numerical and analytical investigation of the possibilities to enhance the thermal conductivity of core-shell particle packed beds. <i>Journal of Chromatography A</i> , 2018, 1575, 26-33.	1.8	6
15	Two-dimensional insertable separation tool (TWIST) for flow confinement in spatial separations. <i>Journal of Chromatography A</i> , 2018, 1577, 120-123.	1.8	18
16	A theoretical study on the advantage of core-shell particles with radially-oriented mesopores. <i>Journal of Chromatography A</i> , 2016, 1456, 137-144.	1.8	26
17	Design and evaluation of microfluidic devices for two-dimensional spatial separations. <i>Journal of Chromatography A</i> , 2016, 1434, 127-135.	1.8	20
18	The impact of flow distribution on column performance: A computational fluid dynamics study. <i>Journal of Chromatography A</i> , 2014, 1369, 125-130.	1.8	15

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19	In Situ Measurement of the Transversal Dispersion in Ordered and Disordered Two-Dimensional Pillar Beds for Liquid Chromatography. <i>Analytical Chemistry</i> , 2014, 86, 2947-2954.	3.2	12
20	Theoretical study on the impact of slip flow on chromatographic performance. <i>Journal of Chromatography A</i> , 2014, 1366, 120-125.	1.8	4
21	Experimental and numerical validation of the effective medium theory for the B-term band broadening in 1st and 2nd generation monolithic silica columns. <i>Journal of Chromatography A</i> , 2014, 1351, 46-55.	1.8	11
22	Detailed characterization of the kinetic performance of first and second generation silica monolithic columns for reversed-phase chromatography separations. <i>Journal of Chromatography A</i> , 2014, 1325, 72-82.	1.8	37
23	Calculation of the geometrical three-point parameter constant appearing in the second order accurate effective medium theory expression for the B-term diffusion coefficient in fully porous and porous-shell random sphere packings. <i>Journal of Chromatography A</i> , 2012, 1223, 35-40.	1.8	16
24	New insights in the velocity dependency of the external mass transfer coefficient in 2D and 3D porous media for liquid chromatography. <i>Journal of Chromatography A</i> , 2012, 1227, 194-202.	1.8	20
25	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. <i>Journal of Chromatography A</i> , 2011, 1218, 32-45.	1.8	69
26	Computational study of the relationship between the flow resistance and the microscopic structure of polymer monoliths. <i>Journal of Separation Science</i> , 2011, 34, 2038-2046.	1.3	6
27	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. <i>Journal of Chromatography A</i> , 2011, 1218, 46-56.	1.8	48