Pablo A Kler

List of Publications by Year
in descending order

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31	814	566801	500791
papers	citations	15 h-index	28 g-index

31	31	31	1141
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Validity of Capillary Imbibition Models in Paper-Based Microfluidic Applications. Transport in Porous Media, 2022, 141, 359-378.	1.2	4
2	A free customizable tool for easy integration of microfluidics and smartphones. Scientific Reports, 2022, 12, .	1.6	13
3	Precise electroosmotic flow measurements on paper substrates. Electrophoresis, 2021, 42, 975-982.	1.3	4
4	Numerical simulations of paperâ€based electrophoretic separations with openâ€source tools. Electrophoresis, 2021, 42, 1543-1551.	1.3	5
5	electroMicroTransport v2107: Open-source toolbox for paper-based electromigrative separations. Computer Physics Communications, 2021, 269, 108143.	3.0	1
6	Generalized model of the linear theory of electromigration and its application to electrokinetic chromatography: Capillary zone electrophoretic systems with complex-forming equilibria. Journal of Chromatography A, 2020, 1610, 460595.	1.8	8
7	USB powered microfluidic paperâ€based analytical devices. Electrophoresis, 2020, 41, 562-569.	1.3	17
8	Comprehensive model of electromigrative transport in microfluidic paper based analytical devices. Electrophoresis, 2020, 41, 598-606.	1.3	11
9	Generalized model of the linear theory of electromigration and its application to electrokinetic chromatography: Theory and software PeakMaster 6â€”Next Generation. Electrophoresis, 2019, 40, 683-692.	1.3	24
10	Patterning and Modeling Three-Dimensional Microfluidic Devices Fabricated on a Single Sheet of Paper. Analytical Chemistry, 2019, 91, 8298-8303.	3.2	22
11	Simple method for the assessment of intrinsic kinetic constants in photocatalytic microreactors. Applied Catalysis B: Environmental, 2019, 241, 8-17.	10.8	33
12	Open-source toolbox for electromigrative separations. Computer Physics Communications, 2019, 237, 244-252.	3.0	11
13	Numerical prototyping of lateral flow biosensors. Sensors and Actuators B: Chemical, 2018, 259, 1099-1107.	4.0	24
14	Design keys for paper-based concentration gradient generators. Journal of Chromatography A, 2018, 1561, 83-91.	1.8	14
15	On-chip intermediate potential measurements for the control of electromigration in multi-channel networks in case of time-dependent potential changes. Sensors and Actuators B: Chemical, 2017, 240, 330-337.	4.0	7
16	A quantitative model for lateral flow assays. Microfluidics and Nanofluidics, 2016, 20, 1.	1.0	38
17	Fundamental aspects of electromigrative separation techniques. Analytical and Bioanalytical Chemistry, 2016, 408, 8621-8622.	1.9	0
18	Zeroâ€deadâ€volume interfaces for twoâ€“dimensional electrophoretic separations. Electrophoresis, 2016, 37, 3020-3024.	1.3	15

#	Article	IF	Citations
19	On-chip intermediate LED-IF-based detection for the control of electromigration in multichannel networks. Analytical and Bioanalytical Chemistry, 2016, 408, 8713-8725.	1.9	3
20	Columnâ€“coupling strategies for multidimensional electrophoretic separation techniques. Analytical and Bioanalytical Chemistry, 2015, 407, 119-138.	1.9	30
21	Non-aqueous electrolytes for isotachophoresis of weak bases and its application to the comprehensive preconcentration of the 20 proteinogenic amino acids in column-coupling ITP/CEâ€“MS. Analytical and Bioanalytical Chemistry, 2014, 406, 7163-7174.	1.9	19
22	Applicability of UV laser-induced solid-state fluorescence spectroscopy for characterization of solid dosage forms. Analytical and Bioanalytical Chemistry, 2014, 406, 6347-6362.	1.9	4
23	Design and operational limits of an ATR-FTIR spectroscopic microreactor for investigating reactions at liquidâ€“solid interface. Chemical Engineering Journal, 2014, 243, 197-206.	6.6	31
24	SUPG and discontinuity-capturing methods for coupled fluid mechanics and electrochemical transport problems. Computational Mechanics, 2013, 51, 171-185.	2.2	55
25	Column coupling isotachophoresisâ€“capillary electrophoresis with mass spectrometric detection: Characterization and optimization of microfluidic interfaces. Journal of Chromatography A, 2013, 1297, 204-212.	1.8	28
26	A circular microchannel with integrated electrodes for DNA electrophoresis. Microsystem Technologies, 2013, 19, 733-742.	1.2	1
27	FastMat: A C++ library for multi-index array computations. Advances in Engineering Software, 2012, 54, 38-48.	1.8	2
28	Laser fabrication of micropores and their integration to microfluidic platforms for DNA electrophoresis. Microsystem Technologies, 2012, 18, 429-435.	1.2	1
29	Parallel distributed computing using Python. Advances in Water Resources, 2011, 34, 1124-1139.	1.7	350
30	Modeling and high performance simulation of electrophoretic techniques in microfluidic chips. Microfluidics and Nanofluidics, 2011, 10, 187-198.	1.0	23
31	High performance simulations of electrokinetic flow and transport in microfluidic chips. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 2360-2367.	3.4	16