

Juan J Baeza-Baeza

List of Publications by Year in descending order

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64
papers

1,301
citations

394421

19
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395702

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67
all docs

67
docs citations

67
times ranked

594
citing authors

#	ARTICLE	IF	CITATIONS
1	A Model for the Description, Simulation, and Deconvolution of Skewed Chromatographic Peaks. <i>Analytical Chemistry</i> , 1997, 69, 3822-3831.	6.5	147
2	Models and objective functions for the optimisation of selectivity in reversed-phase liquid chromatography. <i>Analytica Chimica Acta</i> , 2006, 579, 125-145.	5.4	106
3	Modelling of retention behaviour of solutes in micellar liquid chromatography. <i>Journal of Chromatography A</i> , 1997, 780, 129-148.	3.7	96
4	Influence of the addition of modifiers on solute-micelle interaction in hybrid micellar liquid chromatography. <i>Chromatographia</i> , 1998, 48, 655-663.	1.3	67
5	Description of the partitioning behaviour of solutes and data treatment in micellar liquid chromatography with modifiers. <i>Analytica Chimica Acta</i> , 1996, 324, 163-173.	5.4	54
6	Global treatment of chromatographic data with MICHROM. <i>Analytica Chimica Acta</i> , 1997, 348, 187-196.	5.4	49
7	Parabolic-Lorentzian modified Gaussian model for describing and deconvolving chromatographic peaks. <i>Journal of Chromatography A</i> , 2002, 954, 59-76.	3.7	42
8	Half-width plots, a simple tool to predict peak shape, reveal column kinetics and characterise chromatographic columns in liquid chromatography: State of the art and new results. <i>Journal of Chromatography A</i> , 2013, 1314, 142-153.	3.7	42
9	Description of the retention behaviour in micellar liquid chromatography as a function of pH, surfactant and modifier concentration. <i>Journal of Chromatography A</i> , 1997, 769, 155-168.	3.7	41
10	Combined effect of solvent content, temperature and pH on the chromatographic behaviour of ionisable compounds. <i>Journal of Chromatography A</i> , 2007, 1163, 49-62.	3.7	34
11	A three-factor optimisation strategy for micellar liquid chromatography. <i>Chromatographia</i> , 2000, 51, 101-110.	1.3	29
12	MICELLAR CHROMATOGRAPHIC PROCEDURE WITH DIRECT INJECTION FOR THE DETERMINATION OF SULFONAMIDES IN MILK AND HONEY SAMPLES. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2001, 24, 117-131.	1.0	29
13	Prediction of peak shape as a function of retention in reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 2004, 1022, 17-24.	3.7	28
14	Approaches to model the retention and peak profile in linear gradient reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 2013, 1284, 28-35.	3.7	28
15	Modelling of the elution behaviour in hybrid micellar eluents with different organic modifiers. <i>Analytica Chimica Acta</i> , 1999, 381, 275-285.	5.4	25
16	Measurement of the elution strength and peak shape enhancement at increasing modifier concentration and temperature in RPLC. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 2973-2984.	3.7	24
17	Micellar liquid chromatographic separation of amino acids using pre- and post-column o-phthalaldehyde/ N -acetylcysteine derivatization. <i>Analytica Chimica Acta</i> , 2000, 418, 153-165.	5.4	23
18	Approaches to characterise chromatographic column performance based on global parameters accounting for peak broadening and skewness. <i>Journal of Chromatography A</i> , 2010, 1217, 2147-2157.	3.7	22

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19	On the Measurement of Dead Time in Micellar Liquid Chromatography. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1996, 19, 1205-1228.	1.0	21
20	Systematic Approach To Calculate the Concentration of Chemical Species in Multi-Equilibrium Problems. <i>Journal of Chemical Education</i> , 2011, 88, 169-173.	2.3	20
21	Prediction of peak shape in hydro-organic and micellar-organic liquid chromatography as a function of mobile phase composition. <i>Journal of Chromatography A</i> , 2007, 1163, 119-127.	3.7	18
22	Combined effect of solvent content, temperature and pH on the chromatographic behaviour of ionisable compounds. <i>Journal of Chromatography A</i> , 2008, 1193, 117-128.	3.7	17
23	Second-order tensorial calibration for kinetic spectrophotometric determination. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1996, 32, 215-232.	3.5	16
24	Some insights on the description of gradient elution in reversed-phase liquid chromatography. <i>Journal of Separation Science</i> , 2014, 37, 2269-2277.	2.5	16
25	Kinetic spectrophotometric resolution of binary mixtures using three-way partial least squares. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1995, 27, 211-220.	3.5	15
26	Study of the column efficiency using gradient elution based on Van Deemter plots. <i>Journal of Chromatography A</i> , 2019, 1584, 126-134.	3.7	15
27	Extension of the linear solvent strength retention model including a parameter that describes the elution strength changes in liquid chromatography. <i>Journal of Chromatography A</i> , 2020, 1615, 460757.	3.7	15
28	A model for optical saturation thermal lens spectrometry. <i>Analytica Chimica Acta</i> , 1994, 296, 107-113.	5.4	13
29	Systematic Approach for Calculating the Concentrations of Chemical Species in Multiequilibrium Problems: Inclusion of the Ionic Strength Effects. <i>Journal of Chemical Education</i> , 2012, 89, 900-904.	2.3	13
30	Multi-component analysis using OPKINE, a program for the non-linear treatment of kinetic problems. <i>Analyst</i> , 1990, 115, 721.	3.5	12
31	Modelling and prediction of retention in high-performance liquid chromatography by using neural networks. <i>Chromatographia</i> , 1995, 41, 435-444.	1.3	12
32	A theoretical plate model accounting for slow kinetics in chromatographic elution. <i>Journal of Chromatography A</i> , 2011, 1218, 5166-5174.	3.7	12
33	New approaches based on modified Gaussian models for the prediction of chromatographic peaks. <i>Analytica Chimica Acta</i> , 2013, 758, 36-44.	5.4	12
34	A comparative study of several chemometric methods applied to the treatment of two-way kinetic-spectral data for mixture resolution. <i>Analytica Chimica Acta</i> , 1996, 321, 75-95.	5.4	11
35	Determination of clenbuterol in urine by azo-dye precolumn derivatization and micellar liquid chromatography. <i>Chromatographia</i> , 1997, 44, 145-150.	1.3	11
36	Peak capacity estimation in isocratic elution. <i>Journal of Chromatography A</i> , 2008, 1205, 78-89.	3.7	11

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37	Comparative studies on data collection and data treatment in kinetic-based determination with two rotating bioreactor / amperometric detection systems. <i>Analytica Chimica Acta</i> , 1993, 283, 785-793.	5.4	10
38	Reduction of the relative standard deviation in the least-squares fitting of linearized equations by using sensitivity weights. <i>Analytica Chimica Acta</i> , 1995, 316, 173-184.	5.4	10
39	Isocratic and gradient elution in micellar liquid chromatography with Brij-35. <i>Journal of Separation Science</i> , 2015, 38, 2059-2067.	2.5	10
40	Some observations on the prediction of retention in reversed-phase liquid chromatography using the pH as main factor. <i>Analytica Chimica Acta</i> , 2004, 521, 61-68.	5.4	9
41	Optimal experimental designs in RPLC at variable solvent content and pH based on prediction error surfaces. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 1217-1230.	3.7	9
42	Protocol to compare column performance applied to hydrophilic interaction liquid chromatography. <i>Microchemical Journal</i> , 2019, 149, 103973.	4.5	9
43	Modelling and prediction of retention in high-performance liquid chromatography by using neural networks. <i>Chromatographia</i> , 1995, 41, 435-444.	1.3	8
44	A series expansion of the extended Debye-Hückel equation and application to linear prediction of stability constants. <i>Talanta</i> , 1996, 43, 1579-1587.	5.5	8
45	A new mathematical function for describing electrophoretic peaks. <i>Electrophoresis</i> , 2005, 26, 2076-2085.	2.4	7
46	Study of peak shape and efficiency in butyl acrylate-based monolithic columns for capillary electrochromatography. <i>Journal of Chromatography A</i> , 2009, 1216, 6831-6837.	3.7	6
47	Combined effect of solvent content, temperature and pH on the chromatographic behaviour of ionisable compounds. III: Considerations about robustness. <i>Journal of Chromatography A</i> , 2009, 1216, 8891-8903.	3.7	6
48	Approaches to estimate the time and height at the peak maximum in liquid chromatography based on a modified Gaussian model. <i>Journal of Chromatography A</i> , 2011, 1218, 1385-1392.	3.7	6
49	Search of non-ionic surfactants suitable for micellar liquid chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 5043-5057.	3.7	6
50	Pointwise resolute significance of data and applications in experimental design and data treatment. <i>Analytica Chimica Acta</i> , 1992, 266, 133-143.	5.4	5
51	Quality control of pharmaceuticals containing clenbuterol by thermal lens spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1996, 14, 1037-1041.	2.8	5
52	Alternating iterative regression method for dead time estimation from experimental designs. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 625-636.	3.7	5
53	Characterization of chromatographic peaks using the linearly modified Gaussian model. Comparison with the bi-Gaussian and the Foley and Dorsey approaches. <i>Journal of Chromatography A</i> , 2017, 1515, 129-137.	3.7	4
54	Comparison of the Fitting Performance of Retention Models and Elution Strength Behaviour in Hydrophilic-Interaction and Reversed-Phase Liquid Chromatography. <i>Separations</i> , 2021, 8, 54.	2.4	4

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55	New Approaches to Evaluate the Dispersion Parameters in Liquid Chromatography Based on the Information Obtained from a Set of Compounds. <i>Current Chromatography</i> , 2017, 4, .	0.3	4
56	Assessment of peak purity in liquid chromatography using condition index and singular value evolving profiles. <i>Analytica Chimica Acta</i> , 1995, 317, 17-32.	5.4	3
57	EVALUATION OF THE ELUTION STRENGTH OF THE SURFACTANT AND ORGANIC SOLVENT IN HYBRID MICELLAR MOBILE PHASES. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2001, 24, 2765-2783.	1.0	3
58	Analysis of the sensitivity to the systematic error in least-squares regression models. <i>Analytica Chimica Acta</i> , 2004, 515, 15-21.	5.4	3
59	General Solution of the Extended Plate Model Including Diffusion, Slow Transfer Kinetics and Extra-Column Effects for Isocratic Chromatographic Elution. <i>Separations</i> , 2016, 3, 11.	2.4	2
60	Performance and modelling of retention in microemulsion liquid chromatography. <i>Journal of Chromatography A</i> , 2020, 1634, 461651.	3.7	2
61	Study of elution behaviour with gradient voltage in CEC using methacrylate monolithic columns. <i>Electrophoresis</i> , 2010, 31, 1003-1010.	2.4	1
62	Peak dispersion in gradient elution: An insight based on the plate model. <i>Journal of Chromatography A</i> , 2020, 1613, 460670.	3.7	1
63	Kinetic spectrophotometric resolution of binary mixtures using three-way partial least squares. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1995, 27, 211-220.	3.5	1
64	Modified Gaussian models applied to the description and deconvolution of peaks in chiral liquid chromatography. <i>Journal of Chromatography A</i> , 2020, 1625, 461273.	3.7	0