

# JosÃ© RamÃ³n Torres-LapasiÃ³

## List of Publications by Year in descending order

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118  
papers

3,137  
citations

126907

33  
h-index

197818

49  
g-index

118  
all docs

118  
docs citations

118  
times ranked

1444  
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	Retention mechanisms in micellar liquid chromatography. <i>Journal of Chromatography A</i> , 2009, 1216, 1798-1814.	3.7	139
3	Automatic program for peak detection and deconvolution of multi-overlapped chromatographic signals. <i>Journal of Chromatography A</i> , 2005, 1096, 133-145.	3.7	117
4	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
5	Modelling of retention behaviour of solutes in micellar liquid chromatography. <i>Journal of Chromatography A</i> , 1997, 780, 129-148.	3.7	96
6	Automatic program for peak detection and deconvolution of multi-overlapped chromatographic signals. <i>Journal of Chromatography A</i> , 2005, 1096, 146-155.	3.7	83
7	Interpretive strategy for optimization of surfactant and alcohol concentration in micellar liquid chromatography. <i>Journal of Chromatography A</i> , 1994, 677, 239-253.	3.7	66
8	Prediction of the retention in reversed-phase liquid chromatography using soluteâmobile phaseâstationary phase polarity parameters. <i>Journal of Chromatography A</i> , 2002, 955, 19-34.	3.7	66
9	Modelling of the retention behaviour of solutes in micellar liquid chromatography with organic modifiers. <i>Journal of Chromatography A</i> , 1993, 639, 87-96.	3.7	63
10	Chromatographic monitoring of diuretics in urine samples using a sodium dodecyl sulphateâpropanol micellar eluent. <i>Analytica Chimica Acta</i> , 1994, 287, 201-210.	5.4	62
11	Analysis of pharmaceutical preparations containing catecholamines by micellar liquid chromatography with spectrophotometric detection. <i>Analyst</i> , The, 1995, 120, 1767-1772.	3.5	59
12	Levels in the interpretive optimisation of selectivity in high-performance liquid chromatography: A magical mystery tour. <i>Journal of Chromatography A</i> , 2006, 1120, 308-321.	3.7	58
13	Analysis of a solute polarity parameter in reversed-phase liquid chromatography on a linear solvation relationship basis. <i>Analytica Chimica Acta</i> , 2004, 515, 209-227.	5.4	56
14	Stationary phase modulation in liquid chromatography through the serial coupling of columns: A review. <i>Analytica Chimica Acta</i> , 2016, 923, 1-23.	5.4	55
15	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
16	Error analysis and performance of different retention models in the transference of data from/to isocratic/gradient elution. <i>Journal of Chromatography A</i> , 2003, 1018, 169-181.	3.7	54
17	Global treatment of chromatographic data with MICHROM. <i>Analytica Chimica Acta</i> , 1997, 348, 187-196.	5.4	49
18	Retention Mechanisms for Basic Drugs in the Submicellar and Micellar Reversed-Phase Liquid Chromatographic Modes. <i>Analytical Chemistry</i> , 2008, 80, 9705-9713.	6.5	49

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19	Interpretive optimisation strategy applied to the isocratic separation of phenols by reversed-phase liquid chromatography with acetonitrile-water and methanol-water mobile phases. <i>Journal of Chromatography A</i> , 2000, 886, 31-46.	3.7	46
20	Effects of pH and the presence of micelles on the resolution of diuretics by reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 2004, 1022, 51-65.	3.7	45
21	Evaluation of several global resolution functions for liquid chromatography. <i>Analytica Chimica Acta</i> , 1999, 396, 61-74.	5.4	44
22	Resolution of multicomponent peaks by orthogonal projection approach, positive matrix factorization and alternating least squares. <i>Analytica Chimica Acta</i> , 2000, 411, 145-155.	5.4	44
23	Limits of multi-linear gradient optimisation in reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 2005, 1063, 79-88.	3.7	43
24	Submicellar and micellar reversed-phase liquid chromatographic modes applied to the separation of $\beta$ -blockers. <i>Journal of Chromatography A</i> , 2009, 1216, 3199-3209.	3.7	43
25	Resolution assessment and performance of several organic modifiers in hybrid micellar liquid chromatography. <i>Analytica Chimica Acta</i> , 2001, 433, 187-198.	5.4	42
26	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
27	Considerations on the modelling and optimisation of resolution of ionisable compounds in extended pH-range columns. <i>Journal of Chromatography A</i> , 2005, 1089, 170-186.	3.7	41
28	Comparison of the performance of butanol and pentanol as modifiers in the micellar chromatographic determination of some phenethylamines. <i>Journal of Chromatography A</i> , 2000, 866, 35-49.	3.7	40
29	Complementary mobile-phase optimisation for resolution enhancement in high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2000, 876, 17-35.	3.7	38
30	A QSPR Study of the Solute Polarity Parameter to Estimate Retention in HPLC. <i>Journal of Chemical Information and Computer Sciences</i> , 2003, 43, 1240-1247.	2.8	38
31	Micellar-organic versus aqueous-organic mobile phases for the screening of $\beta$ -blockers. <i>Analytica Chimica Acta</i> , 2002, 454, 109-123.	5.4	36
32	Chromatographic Determination of Thiols After Pre-column Derivatization with o-phthalaldehyde and Isoleucine. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2004, 27, 1593-1609.	1.0	36
33	Use of a three-factor interpretive optimisation strategy in the development of an isocratic chromatographic procedure for the screening of diuretics in urine samples using micellar mobile phases. <i>Journal of Chromatography A</i> , 2000, 893, 321-337.	3.7	34
34	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
35	Quantitation of hydrophobicity in micellar liquid chromatography. <i>TrAC - Trends in Analytical Chemistry</i> , 1999, 18, 533-543.	11.4	33
36	RAPID LIQUID CHROMATOGRAPHIC DETERMINATION OF TETRACYCLINES IN ANIMAL FEEDS USING A SURFACTANT SOLUTION AS MOBILE PHASE. <i>Analytical Letters</i> , 2002, 35, 687-705.	1.8	30

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37	Improvement of Peak Shape and Separation Performance of Å-Blockers in Conventional Reversed-Phase Columns Using Solvent Modifiers. <i>Journal of Chromatographic Science</i> , 2003, 41, 350-358.	1.4	30
38	A three-factor optimisation strategy for micellar liquid chromatography. <i>Chromatographia</i> , 2000, 51, 101-110.	1.3	29
39	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
40	Comparative study of solvation parameter models accounting the effects of mobile phase composition in reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 2007, 1166, 85-96.	3.7	29
41	Application of several modified peak purity assays to real complex multicomponent mixtures by high-performance liquid chromatography with diode-array detection. <i>Journal of Chromatography A</i> , 1999, 855, 487-499.	3.7	28
42	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
43	Comparison of two serially coupled column systems and optimization software in isocratic liquid chromatography for resolving complex mixtures. <i>Journal of Chromatography A</i> , 2013, 1281, 94-105.	3.7	28
44	Characterization of Chemical Composition along the Molar Mass Distribution in Polyolefin Copolymers by GPC Using a Modern Filter-based IR Detector. <i>Macromolecular Symposia</i> , 2013, 330, 63-80.	0.7	27
45	A hybrid genetic algorithm with local search: I. Discrete variables: optimisation of complementary mobile phases. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2001, 59, 89-106.	3.5	25
46	Determination of fatty alcohol ethoxylates by derivatisation with maleic anhydride followed by liquid chromatography with UV-vis detection. <i>Journal of Chromatography A</i> , 2008, 1180, 32-41.	3.7	25
47	Micellar versus hydro-organic reversed-phase liquid chromatography: A solvation parameter-based perspective. <i>Journal of Chromatography A</i> , 2008, 1182, 176-196.	3.7	25
48	Optimisation of gradient elution with serially-coupled columns. Part I: Single linear gradients. <i>Journal of Chromatography A</i> , 2014, 1350, 51-60.	3.7	24
49	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
50	Filter-based infrared detectors for high temperature size exclusion chromatography analysis of polyolefins: Calibration with a small number of standards and error analysis. <i>Journal of Chromatography A</i> , 2012, 1257, 66-73.	3.7	23
51	Net analyte signal as a deconvolution-oriented resolution criterion in the optimisation of chromatographic techniques. <i>Journal of Chromatography A</i> , 2003, 991, 47-59.	3.7	22
52	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
53	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
54	Silanol suppressing potency of alkyl-imidazolium ionic liquids on C18 stationary phases. <i>Journal of Chromatography A</i> , 2012, 1232, 166-175.	3.7	21

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55	Solute-Solvent Interactions in Micellar Electrokinetic Chromatography. 6. Optimization of the Selectivity of Lithium Dodecyl Sulfate-Lithium Perfluorooctanesulfonate Mixed Micellar Buffers. <i>Analytical Chemistry</i> , 2002, 74, 4447-4455.	6.5	20
56	Enhanced calculation of optimal gradient programs in reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 2003, 1018, 183-196.	3.7	20
57	Peak deconvolution in one-dimensional chromatography using a two-way data approach. <i>Journal of Chromatography A</i> , 2002, 958, 35-49.	3.7	18
58	Capillary electrophoresis enhanced by automatic two-way background correction using cubic smoothing splines and multivariate data analysis applied to the characterisation of mixtures of surfactants. <i>Journal of Chromatography A</i> , 2005, 1065, 301-313.	3.7	18
59	Serial versus parallel columns using isocratic elution: A comparison of multi-column approaches in mono-dimensional liquid chromatography. <i>Journal of Chromatography A</i> , 2015, 1390, 95-102.	3.7	18
60	A hybrid genetic algorithm with local search. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2001, 59, 107-120.	3.5	17
61	Estimation of significant solvent concentration ranges and its application to the enhancement of the accuracy of gradient predictions. <i>Journal of Chromatography A</i> , 2004, 1057, 31-39.	3.7	17
62	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
63	Performance of short-chain alcohols versus acetonitrile in the surfactant-mediated reversed-phase liquid chromatographic separation of $\beta$ -blockers. <i>Journal of Chromatography A</i> , 2010, 1217, 7090-7099.	3.7	17
64	Performance of a Chromolith RP18e column for the screening of $\beta$ -blockers. <i>Journal of Separation Science</i> , 2009, 32, 2841-2853.	2.5	16
65	1-Hexyl-3-methyl imidazolium tetrafluoroborate: An efficient column enhancer for the separation of basic drugs by reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 2012, 1258, 168-174.	3.7	15
66	Optimisation of gradient elution with serially-coupled columns Part II: Multi-linear gradients. <i>Journal of Chromatography A</i> , 2014, 1373, 51-60.	3.7	15
67	Assisted baseline subtraction in complex chromatograms using the BEADS algorithm. <i>Journal of Chromatography A</i> , 2017, 1507, 1-10.	3.7	15
68	Robust interpretive optimisation in high-performance liquid chromatography considering uncertainties in peak position. <i>Journal of Chromatography A</i> , 2005, 1096, 123-132.	3.7	14
69	A comparative study of the performance of acetonitrile and methanol in the multi-linear gradient separation of proteic primary amino acids. <i>Analytica Chimica Acta</i> , 2007, 582, 250-258.	5.4	14
70	Interpretive optimisation of organic solvent content and flow rate in the separation of $\beta$ -blockers with a Chromolith RP18e column. <i>Journal of Separation Science</i> , 2009, 32, 2793-2803.	2.5	14
71	Origin and correction of the deviations in retention times at increasing flow rate with Chromolith columns. <i>Journal of Chromatography A</i> , 2010, 1217, 5440-5443.	3.7	14
72	Simultaneous optimization of mobile phase composition, column nature and length to analyse complex samples using serially coupled columns. <i>Journal of Chromatography A</i> , 2013, 1317, 39-48.	3.7	13

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73	Modelling and prediction of retention in high-performance liquid chromatography by using neural networks. <i>Chromatographia</i> , 1995, 41, 435-444.	1.3	12
74	Description of the retention behaviour of solutes in micellar liquid chromatography with organic modifiers: Comparison of two methods. <i>Chromatographia</i> , 1995, 40, 279-286.	1.3	12
75	Enhancement in the computation of gradient retention times in liquid chromatography using root-finding methods. <i>Journal of Chromatography A</i> , 2019, 1600, 137-147.	3.7	12
76	Peak capacity estimation in isocratic elution. <i>Journal of Chromatography A</i> , 2008, 1205, 78-89.	3.7	11
77	Performance of Markers and the Homologous Series Method for Dead Time Estimation in Reversed-Phase Liquid Chromatography. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2009, 32, 1065-1083.	1.0	11
78	Analysis of amino acids using serially coupled columns. <i>Journal of Separation Science</i> , 2017, 40, 2741-2751.	2.5	11
79	Global retention models and their application to the prediction of chromatographic fingerprints. <i>Journal of Chromatography A</i> , 2021, 1637, 461845.	3.7	11
80	Towards unsupervised analysis of second-order chromatographic data: Automated selection of number of components in multivariate curve-resolution methods. <i>Journal of Chromatography A</i> , 2007, 1158, 258-272.	3.7	10
81	A chromatographic objective function to characterise chromatograms with unknown compounds or without standards available. <i>Journal of Chromatography A</i> , 2015, 1409, 79-88.	3.7	10
82	Gradient design for liquid chromatography using multi-scale optimization. <i>Journal of Chromatography A</i> , 2018, 1534, 32-42.	3.7	10
83	Resolution of mixtures of steroidal hormones with micellar eluents of sodium dodecyl sulphate and acetonitrile or pentanol. <i>Chromatographia</i> , 2000, 52, 185-189.	1.3	9
84	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
85	Approaches to find complementary separation conditions for resolving complex mixtures by high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2012, 1229, 180-189.	3.7	9
86	An approach to evaluate the information in chromatographic fingerprints: Application to the optimisation of the extraction and conservation conditions of medicinal herbs. <i>Journal of Chromatography A</i> , 2015, 1422, 178-185.	3.7	9
87	Testing experimental designs in liquid chromatography (I): Development and validation of a method for the comprehensive inspection of experimental designs. <i>Journal of Chromatography A</i> , 2020, 1624, 461180.	3.7	9
88	Towards the optimization of complementary systems in reversed-phase liquid chromatography. <i>Chromatographia</i> , 2002, 56, 699-707.	1.3	8
89	Improved purity assessment of high-performance liquid chromatography diode array detection data for overcoming the presence of the non-linearity artefact. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2000, 52, 45-59.	3.5	7
90	Title is missing!. <i>Water, Air, and Soil Pollution</i> , 2000, 117, 105-122.	2.4	7

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91	Finding the best separation in situations of extremely low chromatographic resolution. <i>Journal of Chromatography A</i> , 2011, 1218, 2240-2251.	3.7	7
92	Benefits of solvent concentration pulses in retention time modelling of liquid chromatography. <i>Journal of Chromatography A</i> , 2019, 1597, 76-88.	3.7	7
93	Multi-scale optimisation vs. genetic algorithms in the gradient separation of diuretics by reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 2020, 1609, 460427.	3.7	7
94	Enhancement of retention predictions in reversed-phase liquid chromatography using reference compounds. <i>Analytica Chimica Acta</i> , 2004, 518, 191-197.	5.4	6
95	Separation of Proteic Primary Amino Acids under Several Reversed-Phase Liquid Chromatographic Conditions. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2006, 29, 2521-2536.	1.0	6
96	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
97	Correction of the deviations in the retention times with Chromolith columns associated to the flow rate: Implications in the modelling of the retention behaviour. <i>Journal of Separation Science</i> , 2011, 34, 931-938.	2.5	6
98	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
99	Study of the performance of a resolution criterion to characterise complex chromatograms with unknowns or without standards. <i>Analytical Methods</i> , 2017, 9, 4293-4303.	2.7	6
100	Modelling retention and peak shape of small polar solutes analysed by nano-HPLC using methacrylate-based monolithic columns. <i>Analytica Chimica Acta</i> , 2019, 1086, 142-155.	5.4	6
101	Testing experimental designs in liquid chromatography (II): Influence of the design geometry on the prediction performance of retention models. <i>Journal of Chromatography A</i> , 2021, 1654, 462458.	3.7	6
102	Resolution of overlapped non-absorbing and absorbing solutes using either an absorption null-balance detection window or multivariate deconvolution applied to capillary electrophoresis of anionic surfactants. <i>Journal of Chromatography A</i> , 2004, 1036, 205-216.	3.7	5
103	Alternating iterative regression method for dead time estimation from experimental designs. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 625-636.	3.7	5
104	A New Calibration Method for the Accurate Determination of Ethylene Content in Ethylene-Propylene Copolymers by CRYSTEX-IR. <i>Macromolecular Symposia</i> , 2012, 312, 157-166.	0.7	5
105	Comparison of the performance of Chromolith Performance RP-18e, 1.8-µm Zorbax Eclipse XDB-C18 and XTerra MS C18, based on modelling approaches. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 2219-2231.	3.7	5
106	Estimation of peak capacity based on peak simulation. <i>Journal of Chromatography A</i> , 2018, 1574, 101-113.	3.7	5
107	Interpretive Approaches to Optimize Serially-Coupled Columns in Reversed-Phase Liquid Chromatography. <i>Current Chromatography</i> , 2015, 2, 110-121.	0.3	5
108	SINGLE-PEAK RESOLUTION CRITERIA FOR OPTIMIZATION OF MOBILE PHASE COMPOSITION IN LIQUID CHROMATOGRAPHY. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2001, 24, 1895-1919.	1.0	4

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109	A complementary mobile phase approach based on the peak count concept oriented to the full resolution of complex mixtures. Journal of Chromatography A, 2011, 1218, 5829-5836.	3.7	4
110	Interpretive search of optimal isocratic and gradient separations in micellar liquid chromatography in extended organic solvent domains. Journal of Chromatography A, 2020, 1616, 460784.	3.7	3
111	Chromatographic fingerprint-based analysis of extracts of green tea, lemon balm and linden: I. Development of global retention models without the use of standards. Journal of Chromatography A, 2022, 1672, 463060.	3.7	3
112	Thermal lens spectrometric determination of cerium with oxine. Microchemical Journal, 1991, 44, 222-227.	4.5	2
113	Secondary Chemical Equilibria in Reversed-Phase Liquid Chromatography. , 2013, , 87-104.		2
114	Optimisation of chromatographic resolution using objective functions including both time and spectral information. Journal of Chromatography A, 2015, 1377, 75-84.	3.7	2
115	LIQUID CHROMATOGRAPHY   Micellar. , 2005, , 164-172.		2
116	Updating chromatographic predictions by accounting ageing for single and tandem columns. Journal of Separation Science, 2018, 41, 2719-2730.	2.5	1
117	A QSPR Study of the $p$ Solute Polarity Parameter to Estimate Retention of HPLC.. ChemInform, 2003, 34, no.	0.0	0
118	Liquid Chromatography: Strategies for Optimization. , 2018, , 252-252.		0