

Jos Barbosa

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87
papers

2,510
citations

31
h-index

45
g-index

87
ext. papers

2,688
ext. citations

5.3
avg, IF

4.79
L-index

#	Paper	IF	Citations
87	Development of diabetic vascular lesions in normal kidneys transplanted into patients with diabetes mellitus. <i>New England Journal of Medicine</i> , 1976 , 295, 916-20	59.2	166
86	Glycoform characterization of erythropoietin combining glycan and intact protein analysis by capillary electrophoresis - electrospray - time-of-flight mass spectrometry. <i>Electrophoresis</i> , 2006 , 27, 2638-50	3.6	107
85	Effect of Glycemic Control on Early Diabetic Renal Lesions. <i>JAMA - Journal of the American Medical Association</i> , 1994 , 272, 600	27.4	80
84	Preferential solvation in acetonitrile-water mixtures. Relationship between solvatochromic parameters and standard pH values. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994 , 90, 3287-3292	7.3	73
83	Assignment of reference pH-values to primary standard buffer solutions for standardization of potentiometric sensors in acetonitrile-water mixtures. <i>Fresenius Journal of Analytical Chemistry</i> , 1995 , 353, 148-155		69
82	Separation of recombinant human erythropoietin glycoforms by capillary electrophoresis using volatile electrolytes. Assessment of mass spectrometry for the characterization of erythropoietin glycoforms. <i>Analytical Chemistry</i> , 2003 , 75, 5220-9	7.8	62
81	Lowering the concentration limits of detection by on-line solid-phase extraction-capillary electrophoresis-electrospray mass spectrometry. <i>Journal of Chromatography A</i> , 2007 , 1140, 205-12	4.5	60
80	Determination of residues of enrofloxacin and its metabolite ciprofloxacin in chicken muscle by capillary electrophoresis using laser-induced fluorescence detection. <i>Electrophoresis</i> , 2002 , 23, 3078-83	3.6	58
79	Multiclass method for the determination of quinolones and β -lactams, in raw cow milk using dispersive liquid-liquid microextraction and ultra high performance liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2014 , 1356, 10-22	4.5	55
78	Comparison of sheathless and sheath-flow electrospray interfaces for the capillary electrophoresis-electrospray ionization-mass spectrometry analysis of peptides. <i>Electrophoresis</i> , 2005 , 26, 1457-65	3.6	54
77	Modelling retention in liquid chromatography as a function of solvent composition and pH of the mobile phase. <i>Journal of Chromatography A</i> , 2000 , 869, 27-39	4.5	52
76	Characterization of transferrin glycoforms in human serum by CE-UV and CE-ESI-MS. <i>Electrophoresis</i> , 2007 , 28, 1949-57	3.6	50
75	Capillary electrophoresis coupled to time of flight-mass spectrometry of therapeutic peptide hormones. <i>Electrophoresis</i> , 2003 , 24, 883-91	3.6	46
74	Wildlife contamination with fluoroquinolones from livestock: Widespread occurrence of enrofloxacin and marbofloxacin in vultures. <i>Chemosphere</i> , 2016 , 144, 1536-43	8.4	45
73	Homozygous parent affected sib pair method for detecting disease predisposing variants: application to insulin dependent diabetes mellitus. <i>Genetic Epidemiology</i> , 1993 , 10, 273-88	2.6	45
72	Evaluation of on-line solid phase extraction-capillary electrophoresis-electrospray-mass spectrometry for the analysis of neuropeptides in human plasma. <i>Electrophoresis</i> , 2008 , 29, 3366-76	3.6	44
71	Identification of bioactive peptides in a functional yogurt by micro liquid chromatography time-of-flight mass spectrometry assisted by retention time prediction. <i>Journal of Chromatography A</i> , 2012 , 1229, 121-8	4.5	42

70	Determination of phenolic acids in strawberry samples by means of fast liquid chromatography and multivariate curve resolution methods. <i>Talanta</i> , 2007 , 71, 1455-63	6.2	42
69	Identification and characterization of isomeric N-glycans of human alfa-acid-glycoprotein by stable isotope labelling and ZIC-HILIC-MS in combination with exoglycosidase digestion. <i>Analytica Chimica Acta</i> , 2016 , 940, 92-103	6.6	40
68	Analysis of recombinant human erythropoietin glycopeptides by capillary electrophoresis electro-spray-time of flight-mass spectrometry. <i>Analytica Chimica Acta</i> , 2012 , 709, 81-90	6.6	39
67	Identification of bioactive peptides in hypoallergenic infant milk formulas by capillary electrophoresis-mass spectrometry. <i>Analytica Chimica Acta</i> , 2010 , 683, 119-25	6.6	39
66	Determination of Dissociation Constants of Some Hydroxylated Benzoic and Cinnamic Acids in Water from Mobility and Spectroscopic Data Obtained by CE-DAD. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 807-811	2.8	38
65	Analysis of opioid peptides by on-line SPE-CE-ESI-MS. <i>Electrophoresis</i> , 2007 , 28, 3957-65	3.6	38
64	Modelling migration behavior of peptide hormones in capillary electrophoresis-electrospray mass spectrometry. <i>Journal of Chromatography A</i> , 2006 , 1117, 94-102	4.5	38
63	Identification of bioactive peptides in hypoallergenic infant milk formulas by CE-TOF-MS assisted by semiempirical model of electromigration behavior. <i>Electrophoresis</i> , 2013 , 34, 1886-94	3.6	37
62	Improving the sensitivity of the determination of ceftiofur by capillary electrophoresis in environmental water samples: in-line solid phase extraction and sample stacking techniques. <i>Analytica Chimica Acta</i> , 2007 , 587, 208-15	6.6	37
61	Analysis of intact erythropoietin and novel erythropoiesis-stimulating protein by capillary electrophoresis-electrospray-ion trap mass spectrometry. <i>Electrophoresis</i> , 2008 , 29, 2161-70	3.6	37
60	PKPOT, a program for the potentiometric study of ionic equilibria in aqueous and non-aqueous media. <i>Analytica Chimica Acta</i> , 1995 , 317, 75-81	6.6	37
59	Effective sorbents for solid-phase extraction in the analysis of quinolones in animal tissues by capillary electrophoresis. <i>Electrophoresis</i> , 2004 , 25, 65-73	3.6	35
58	Towards a reliable molecular mass determination of intact glycoproteins by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2007 , 21, 2555-63	2.2	34
57	Transient isotachopheresis in on-line solid phase extraction capillary electrophoresis time-of-flight-mass spectrometry for peptide analysis in human plasma. <i>Electrophoresis</i> , 2011 , 32, 1750-9 ^{3.6}	3.6	33
56	Determination of human erythropoietin by on-line immunoaffinity capillary electrophoresis: a preliminary report. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 387, 2633-9	4.4	30
55	Sensitivity enhancement for the analysis of naproxen in tap water by solid-phase extraction coupled in-line to capillary electrophoresis. <i>Journal of Separation Science</i> , 2008 , 31, 872-80	3.4	30
54	Analysis of recombinant human erythropoietin and novel erythropoiesis stimulating protein digests by immunoaffinity capillary electrophoresis-mass spectrometry. <i>Journal of Chromatography A</i> , 2009 , 1216, 2574-82	4.5	29
53	Capillary electrophoresis and matrix-assisted laser desorption/ionization-time of flight-mass spectrometry for analysis of the novel erythropoiesis-stimulating protein (NESP). <i>Electrophoresis</i> , 2005 , 26, 1451-6	3.6	29

52	Pentacyclic triterpene in <i>Olea europaea</i> L: A simultaneous determination by high-performance liquid chromatography coupled to mass spectrometry. <i>Journal of Chromatography A</i> , 2015 , 1410, 68-75	4.5	27
51	Preparation and evaluation of an immunoaffinity sorbent for the analysis of opioid peptides by on-line immunoaffinity solid-phase extraction capillary electrophoresis-mass spectrometry. <i>Analytica Chimica Acta</i> , 2012 , 717, 134-42	6.6	27
50	Capillary electrophoresis time-of-flight mass spectrometry for a confident elucidation of a glycopeptide map of recombinant human erythropoietin. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 2307-16	2.2	27
49	Evaluation of the electrophoretic behaviour of opioid peptides Separation by capillary electrophoresis-electrospray ionization mass spectrometry. <i>Analytica Chimica Acta</i> , 2006 , 577, 68-76	6.6	27
48	Electrophoretic behaviour of zwitterionic compounds in capillary electrophoresis. <i>Analytica Chimica Acta</i> , 2000 , 415, 83-93	6.6	27
47	Metabolic profiling for the identification of Huntington biomarkers by on-line solid-phase extraction capillary electrophoresis mass spectrometry combined with advanced data analysis tools. <i>Electrophoresis</i> , 2016 , 37, 795-808	3.6	26
46	Preparation and evaluation of an immunoaffinity sorbent with Fab antibody fragments for the analysis of opioid peptides by on-line immunoaffinity solid-phase extraction capillary electrophoresis-mass spectrometry. <i>Analytica Chimica Acta</i> , 2013 , 789, 91-9	6.6	26
45	Determination of penicillins in milk using LC-UV, LC-MS and LC-MS/MS. <i>Journal of Separation Science</i> , 2009 , 32, 2385-93	3.4	25
44	Migration behavior of therapeutic peptide hormones: prediction of optimal separation by capillary electrophoresis. <i>Electrophoresis</i> , 2001 , 22, 4333-40	3.6	25
43	An update for human blood plasma pretreatment for optimized recovery of low-molecular-mass peptides prior to CE-MS and SPE-CE-MS. <i>Journal of Separation Science</i> , 2013 , 36, 3896-902	3.4	24
42	Analysis of human transferrin glycopeptides by capillary electrophoresis and capillary liquid chromatography-mass spectrometry. Application to diagnosis of alcohol dependence. <i>Analytica Chimica Acta</i> , 2013 , 804, 167-75	6.6	24
41	Ionic liquid matrices for MALDI-TOF-MS analysis of intact glycoproteins. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 357-65	4.4	24
40	Identification of metabolites and thermal transformation products of quinolones in raw cow's milk by liquid chromatography coupled to high-resolution mass spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 2008-21	5.7	22
39	Analysis of transthyretin in human serum by capillary zone electrophoresis electrospray ionization time-of-flight mass spectrometry. Application to familial amyloidotic polyneuropathy type I. <i>Electrophoresis</i> , 2015 , 36, 1265-73	3.6	20
38	Separation and characterization of rabbit liver apothioneins by capillary electrophoresis coupled to electrospray ionization time-of-flight mass spectrometry. <i>Electrophoresis</i> , 2006 , 27, 3661-70	3.6	20
37	A multiway approach for classification and characterization of rabbit liver apothioneins by CE-ESI-MS. <i>Electrophoresis</i> , 2008 , 29, 4355-67	3.6	19
36	Standardization of potentiometric sensors in tetrahydrofuran. <i>Analytica Chimica Acta</i> , 1992 , 264, 229-238	3.6	19
35	Investigation of commercial sorbents for the analysis of opioid peptides in human plasma by on-line SPE-CE. <i>Journal of Separation Science</i> , 2010 , 33, 1294-304	3.4	18

34	Preferential solvation in the THF/water mixtures. Dissociation constants of acid components of pH reference materials. <i>Physical Chemistry Chemical Physics</i> , 1999 , 1, 295-298	3.6	18
33	Analysis of serum transthyretin by on-line immunoaffinity solid-phase extraction capillary electrophoresis mass spectrometry using magnetic beads. <i>Electrophoresis</i> , 2016 , 37, 1220-31	3.6	18
32	On-line immunoaffinity solid-phase extraction capillary electrophoresis mass spectrometry using Fab antibody fragments for the analysis of serum transthyretin. <i>Talanta</i> , 2017 , 170, 224-232	6.2	17
31	Modelling the electrophoretic migration behaviour of peptides and glycopeptides from glycoprotein digests in capillary electrophoresis-mass spectrometry. <i>Analytica Chimica Acta</i> , 2015 , 854, 169-77	6.6	17
30	Zwitterionic-hydrophilic interaction capillary liquid chromatography coupled to tandem mass spectrometry for the characterization of human alpha-acid-glycoprotein N-glycan isomers. <i>Analytica Chimica Acta</i> , 2017 , 991, 76-88	6.6	17
29	On-line protein digestion by immobilized enzyme microreactor capillary electrophoresis-mass spectrometry. <i>Talanta</i> , 2019 , 199, 116-123	6.2	16
28	Analysis of O-Glycopeptides by Acetone Enrichment and Capillary Electrophoresis-Mass Spectrometry. <i>Journal of Proteome Research</i> , 2017 , 16, 4166-4176	5.6	15
27	Assessment of capillary electrophoresis TOF MS for a confident identification of peptides. <i>Journal of Separation Science</i> , 2010 , 33, 2489-98	3.4	15
26	Capillary electrophoresis/mass spectrometry for the separation and characterization of bovine Cu,Zn-superoxide dismutase. <i>Rapid Communications in Mass Spectrometry</i> , 2010 , 24, 1411-8	2.2	13
25	HLA and susceptibility to type I diabetes. Hypothesis. <i>Tissue Antigens</i> , 1982 , 20, 28-32		12
24	Separation and characterization of complex crude mixtures produced in the synthesis of therapeutic peptide hormones by liquid chromatography coupled to electrospray mass spectrometry (LCES-MS). <i>Analytica Chimica Acta</i> , 2004 , 521, 25-36	6.6	12
23	Neutralisation indicators in 2-methylpropan-2-ol: their pKa values and chromatic parameters of transition ranges. <i>Analyst, The</i> , 1987 , 112, 179-184	5	12
22	Separation and characterization of superoxide dismutase 1 (SOD-1) from human erythrocytes by capillary electrophoresis time-of-flight mass spectrometry. <i>Electrophoresis</i> , 2012 , 33, 2561-9	3.6	11
21	Modeling the electrophoretic behavior of quinolones in aqueous and hydroorganic media. <i>Electrophoresis</i> , 2010 , 31, 965-72	3.6	11
20	Classification of congenital disorders of glycosylation based on analysis of transferrin glycopeptides by capillary liquid chromatography-mass spectrometry. <i>Talanta</i> , 2016 , 160, 614-623	6.2	11
19	Comparison of Three Analytical Methods for the Determination of Quinolones in Pig Muscle Samples. <i>Chromatographia</i> , 2013 , 76, 707-713	2.1	10
18	Estimation of the composition of recombinant human erythropoietin mixtures using capillary electrophoresis and multivariate calibration methods. <i>Electrophoresis</i> , 2006 , 27, 4008-15	3.6	10
17	Equilibrium constants and assay of benzodiazepines in acetic acid. <i>Analyst, The</i> , 1989 , 114, 471-4	5	10

16	Identification of antihypertensive peptides in nutraceuticals by capillary electrophoresis-mass spectrometry. <i>Journal of Chromatography A</i> , 2018 , 1579, 129-137	4.5	10
15	CE-ESI-MS of biological anions in plastic capillaries at high pH. <i>Electrophoresis</i> , 2007 , 28, 944-9	3.6	9
14	Liquid chromatography-mass spectrometry approach for the characterization and purification of crude synthetic peptide hormones. <i>Analytical and Bioanalytical Chemistry</i> , 2003 , 377, 306-15	4.4	9
13	Autoprotolysis Constants and Standardization of pH Measurements in Tetrahydrofuran-Water Mixtures. <i>Electroanalysis</i> , 1999 , 11, 627-631	3	8
12	Comparison of capillary electrophoresis and capillary liquid chromatography coupled to mass spectrometry for the analysis of transthyretin in human serum. <i>Journal of Chromatography A</i> , 2016 , 1444, 145-53	4.5	8
11	Improved tryptic digestion assisted with an acid-labile anionic surfactant for the separation and characterization of glycopeptide glycoforms of a proteolytic-resistant glycoprotein by capillary electrophoresis time-of-flight mass spectrometry. <i>Electrophoresis</i> , 2016 , 37, 987-97	3.6	7
10	Characterization of superoxide dismutase 1 (SOD-1) by electrospray ionization-ion mobility mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2013 , 48, 60-7	2.2	6
9	Evaluation of migration behaviour of therapeutic peptide hormones in capillary electrophoresis using polybrene-coated capillaries. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 1571-9	4.4	6
8	Study of neutralisation indicators in propan-2-ol: their pKa values and chromatic parameters of transition ranges. <i>Analyst, The</i> , 1985 , 110, 1473-1476	5	6
7	Determination of acidity constants and prediction of electrophoretic separation of amyloid beta peptides. <i>Journal of Chromatography A</i> , 2017 , 1508, 148-157	4.5	5
6	On-line immunoaffinity solid-phase extraction capillary electrophoresis mass spectrometry for the analysis of large biomolecules: a preliminary report. <i>Electrophoresis</i> , 2014 , 35, 2130-6	3.6	5
5	Modeling the migration behavior of rabbit liver apothioneins in capillary electrophoresis. <i>Electrophoresis</i> , 2008 , 29, 2790-800	3.6	4
4	Analysis of Hordeins in Barley Grain and Malt by Capillary Electrophoresis-Mass Spectrometry. <i>Food Analytical Methods</i> , 2020 , 13, 325-336	3.4	3
3	A rapid and simple method for the determination of organic acids in proteolytic enzymes by capillary electrophoresis with indirect ultraviolet detection. <i>Microchemical Journal</i> , 2020 , 158, 105204	4.8	2
2	Assignment of reference pH-values to primary standard buffer solutions for standardization of potentiometric sensors in acetonitrile-water mixtures. <i>Analytical and Bioanalytical Chemistry</i> , 1995 , 353, 148-55	4.4	0
1	Plasma myoinositol in diabetics including patients with renal allografts. <i>Acta Diabetologica Latina</i> , 1978 , 15, 95-101		0