

Fernando Benavente

List of Publications by Year in descending order

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104
papers

2,441
citations

182225

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h-index

340414

39
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104
all docs

104
docs citations

104
times ranked

1879
citing authors

#	ARTICLE	IF	CITATIONS
1	On-line Coupling of Aptamer Affinity Solid-Phase Extraction and Immobilized Enzyme Microreactor Capillary Electrophoresis-Mass Spectrometry for the Sensitive Targeted Bottom-Up Analysis of Protein Biomarkers. <i>Analytical Chemistry</i> , 2022, 94, 6948-6956.	3.2	17
2	Classification of quinoa varieties based on protein fingerprinting by capillary electrophoresis with ultraviolet absorption diode array detection and advanced chemometrics. <i>Food Chemistry</i> , 2021, 341, 128207.	4.2	18
3	Enantiodetermination of R,S-3,4-methylenedioxypropylvalerone in urine samples by high pressure in-line solid-phase extraction capillary electrophoresis-mass spectrometry. <i>Talanta</i> , 2021, 225, 121994.	2.9	22
4	A simple method for the analysis of extracellular vesicles enriched for exosomes from human serum by capillary electrophoresis with ultraviolet diode array detection. <i>Journal of Chromatography A</i> , 2021, 1635, 461752.	1.8	11
5	Analysis of Intact Glycoproteins by Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2021, 2271, 47-56.	0.4	1
6	Site-Specific N-Linked Glycosylation Analysis of Human Carcinoembryonic Antigen by Sheathless Capillary Electrophoresis-Tandem Mass Spectrometry. <i>Journal of Proteome Research</i> , 2021, 20, 1666-1675.	1.8	24
7	Lupinus mutabilis oil obtained by expeller press: Yield, physicochemical characterization, antioxidant capacity, fatty acids and oxidative stability analyses. <i>Scientia Agropecuaria</i> , 2021, 12, 219-227.	0.5	6
8	A hybrid nano-MOF/polymer material for trace analysis of fluoroquinolones in complex matrices at microscale by on-line solid-phase extraction capillary electrophoresis. <i>Talanta</i> , 2021, 233, 122529.	2.9	23
9	Characterization and differentiation of quinoa seed proteomes by label-free mass spectrometry-based shotgun proteomics. <i>Food Chemistry</i> , 2021, 363, 130250.	4.2	16
10	Improving separation optimization in capillary electrophoresis by using a general quality criterion. <i>Talanta</i> , 2020, 208, 120399.	2.9	5
11	Analysis of Hordeins in Barley Grain and Malt by Capillary Electrophoresis-Mass Spectrometry. <i>Food Analytical Methods</i> , 2020, 13, 325-336.	1.3	13
12	On-line Aptamer Affinity Solid-Phase Extraction Capillary Electrophoresis-Mass Spectrometry for the Analysis of Blood β -Synuclein. <i>Analytical Chemistry</i> , 2020, 92, 1525-1533.	3.2	36
13	Analysis of glycopeptide biomarkers by on-line TiO ₂ solid-phase extraction capillary electrophoresis-mass spectrometry. <i>Talanta</i> , 2020, 209, 120563.	2.9	21
14	Ionic matrices for matrix-assisted laser desorption/ionization mass spectrometry analysis of microRNA biomarkers. <i>Analytica Chimica Acta</i> , 2020, 1139, 169-177.	2.6	2
15	Evaluation of on-line solid-phase extraction capillary electrophoresis-mass spectrometry with a nanoliter valve for the analysis of peptide biomarkers. <i>Analytica Chimica Acta</i> , 2020, 1140, 1-9.	2.6	18
16	Enrichment of histidine containing peptides by on-line immobilised metal affinity solid-phase extraction capillary electrophoresis-mass spectrometry. <i>Microchemical Journal</i> , 2020, 157, 105013.	2.3	10
17	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.	2.3	2
18	Comparison of capillary electrophoresis and zwitterionic-hydrophilic interaction capillary liquid chromatography with ultraviolet and mass spectrometry detection for the analysis of microRNA biomarkers. <i>Talanta</i> , 2020, 219, 121263.	2.9	9

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19	Polymeric monolithic microcartridges with gold nanoparticles for the analysis of protein biomarkers by on-line solid-phase extraction capillary electrophoresis-mass spectrometry. <i>Journal of Chromatography A</i> , 2020, 1622, 461097.	1.8	23
20	A critical retrospective and prospective review of designs and materials in in-line solid-phase extraction capillary electrophoresis. <i>Analytica Chimica Acta</i> , 2019, 1079, 1-19.	2.6	41
21	On-Line Immunoaffinity Solid-Phase Extraction Capillary Electrophoresis-Mass Spectrometry for the Analysis of Serum Transthyretin. <i>Methods in Molecular Biology</i> , 2019, 1972, 57-76.	0.4	4
22	On-line protein digestion by immobilized enzyme microreactor capillary electrophoresis-mass spectrometry. <i>Talanta</i> , 2019, 199, 116-123.	2.9	24
23	A rapid and simple method for the analysis of bioactive compounds in olive oil refining by-products by liquid chromatography with ultraviolet and mass spectrometry detection. <i>Journal of Food Composition and Analysis</i> , 2018, 69, 107-114.	1.9	6
24	A chemometric approach for characterization of serum transthyretin in familial amyloidotic polyneuropathy type I (FAP-I) by electrospray ionization-ion mobility mass spectrometry. <i>Talanta</i> , 2018, 181, 87-94.	2.9	5
25	Analysis of Circulating microRNAs and Their Post-Transcriptional Modifications in Cancer Serum by On-Line Solid-Phase Extraction Capillary Electrophoresis-Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 6618-6625.	3.2	27
26	Identification of antihypertensive peptides in nutraceuticals by capillary electrophoresis-mass spectrometry. <i>Journal of Chromatography A</i> , 2018, 1579, 129-137.	1.8	17
27	On-line Solid-phase Extraction Capillary Electrophoresis-Mass Spectrometry and Data Analysis Approaches for Metabolomics. <i>New Developments in Mass Spectrometry</i> , 2018, , 113-133.	0.2	0
28	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.	2.9	22
29	Knowledge integration strategies for untargeted metabolomics based on MCR-ALS analysis of CE-MS and LC-MS data. <i>Analytica Chimica Acta</i> , 2017, 978, 10-23.	2.6	49
30	Determination of acidity constants and prediction of electrophoretic separation of amyloid beta peptides. <i>Journal of Chromatography A</i> , 2017, 1508, 148-157.	1.8	6
31	Parts-per-trillion detection of harmala alkaloids in <i>Undaria pinnatifida</i> algae by on-line solid phase extraction capillary electrophoresis mass spectrometry. <i>Analytica Chimica Acta</i> , 2017, 954, 60-67.	2.6	18
32	Analysis of O-Glycopeptides by Acetone Enrichment and Capillary Electrophoresis-Mass Spectrometry. <i>Journal of Proteome Research</i> , 2017, 16, 4166-4176.	1.8	21
33	Metabolic disruption of zebrafish (<i>Danio rerio</i>) embryos by bisphenol A. An integrated metabolomic and transcriptomic approach. <i>Environmental Pollution</i> , 2017, 231, 22-36.	3.7	65
34	A rapid and simple method for the determination of psychoactive alkaloids by CE-UV: application to <i>Peganum Harmala</i> seed infusions. <i>Drug Testing and Analysis</i> , 2017, 9, 596-602.	1.6	11
35	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, 987-997.	1.3	9
36	Analysis of serum transthyretin by on-line immunoaffinity solid-phase extraction capillary electrophoresis mass spectrometry using magnetic beads. <i>Electrophoresis</i> , 2016, 37, 1220-1231.	1.3	21

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37	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, 145-153.	1.8	9
38	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.	2.9	14
39	On-Line Solid-Phase Extraction Capillary Electrophoresis Mass Spectrometry for Preconcentration and Clean-Up of Peptides and Proteins. <i>Methods in Molecular Biology</i> , 2016, 1466, 67-84.	0.4	11
40	Quality criterion to optimize separations in capillary electrophoresis: Application to the analysis of harmala alkaloids. <i>Journal of Chromatography A</i> , 2016, 1460, 190-196.	1.8	6
41	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.	1.3	28
42	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, 1265-1273.	1.3	21
43	Combination of CE-MS and advanced chemometric methods for high-throughput metabolic profiling. <i>Electrophoresis</i> , 2015, 36, 2324-2335.	1.3	23
44	Interlaboratory study to evaluate the robustness of capillary electrophoresis-mass spectrometry for peptide mapping. <i>Journal of Separation Science</i> , 2015, 38, 3262-3270.	1.3	36
45	A high performance system to study the influence of temperature in on-line solid-phase extraction capillary electrophoresis. <i>Analytica Chimica Acta</i> , 2015, 863, 78-85.	2.6	10
46	Study of immobilized metal affinity chromatography sorbents for the analysis of peptides by on-line solid-phase extraction capillary electrophoresis-mass spectrometry. <i>Electrophoresis</i> , 2015, 36, 962-970.	1.3	15
47	Fast determination of harmala alkaloids in edible algae by capillary electrophoresis mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 3637-3645.	1.9	19
48	Characterisation of serum transthyretin by electrospray ionisation-ion mobility mass spectrometry: Application to familial amyloidotic polyneuropathy type I (FAP-I). <i>Talanta</i> , 2015, 144, 1216-1224.	2.9	6
49	Modelling the electrophoretic migration behaviour of peptides and glycopeptides from glycoprotein digests in capillary electrophoresis-mass spectrometry. <i>Analytica Chimica Acta</i> , 2015, 854, 169-177.	2.6	20
50	Evaluation of fritless solid-phase extraction coupled on-line with capillary electrophoresis-mass spectrometry for the analysis of opioid peptides in cerebrospinal fluid. <i>Electrophoresis</i> , 2014, 35, 2996-3002.	1.3	33
51	Evaluation of non-immunoaffinity methods for isolation of cellular prion protein from bovine brain. <i>Analytical Biochemistry</i> , 2014, 451, 10-17.	1.1	3
52	Low-picomolar analysis of peptides by on-line coupling of fritless solid-phase extraction to sheathless capillary electrophoresis-mass spectrometry. <i>Journal of Chromatography A</i> , 2014, 1328, 1-6.	1.8	33
53	Preparation and evaluation of open tubular C18-silica monolithic microcartridges for preconcentration of peptides by on-line solid phase extraction capillary electrophoresis. <i>Analytica Chimica Acta</i> , 2014, 846, 51-59.	2.6	27
54	On-line immunoaffinity solid-phase extraction capillary electrophoresis mass spectrometry for the analysis of large biomolecules: A preliminary report. <i>Electrophoresis</i> , 2014, 35, 2130-2136.	1.3	9

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55	Characterization of superoxide dismutase 1 (SOD ¹) by electrospray ionization-ion mobility mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2013, 48, 60-67.	0.7	6
56	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, 3896-3902.	1.3	26
57	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, 167-175.	2.6	26
58	Preparation and evaluation of an immunoaffinity sorbent with Fab ² 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, 91-99.	2.6	29
59	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, 1886-1894.	1.3	40
60	Analysis of recombinant human erythropoietin glycopeptides by capillary electrophoresis electrospray-time of flight-mass spectrometry. <i>Analytica Chimica Acta</i> , 2012, 709, 81-90.	2.6	44
61	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, 134-142.	2.6	29
62	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, 2561-2569.	1.3	12
63	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, 121-128.	1.8	45
64	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, 2307-2316.	0.7	33
65	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, 1750-1759.	1.3	37
66	Evaluation of migration behaviour of therapeutic peptide hormones in capillary electrophoresis using polybrene-coated capillaries. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 1571-1579.	1.9	7
67	Ionic liquid matrices for MALDI-TOF-MS analysis of intact glycoproteins. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 357-365.	1.9	25
68	Identification of bioactive peptides in hypoallergenic infant milk formulas by capillary electrophoresis-mass spectrometry. <i>Analytica Chimica Acta</i> , 2010, 683, 119-125.	2.6	44
69	Modeling the electrophoretic behavior of quinolones in aqueous and hydroorganic media. <i>Electrophoresis</i> , 2010, 31, 965-972.	1.3	11
70	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, 1294-1304.	1.3	21
71	Assessment of capillary electrophoresis TOF MS for a confident identification of peptides. <i>Journal of Separation Science</i> , 2010, 33, 2489-2498.	1.3	16
72	Capillary electrophoresis/mass spectrometry for the separation and characterization of bovine Cu,Zn-superoxide dismutase. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 1411-1418.	0.7	14

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73	Comparison of off- and in-line solid-phase extraction for enhancing sensitivity in capillary electrophoresis using ochratoxin as a model compound. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 609-615.	1.9	26
74	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, 2574-2582.	1.8	30
75	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, 872-880.	1.3	33
76	Analysis of intact erythropoietin and novel erythropoiesis–stimulating protein by capillary electrophoresis–electrospray–ion trap mass spectrometry. <i>Electrophoresis</i> , 2008, 29, 2161-2170.	1.3	46
77	Modeling the migration behavior of rabbit liver apothioneins in capillary electrophoresis. <i>Electrophoresis</i> , 2008, 29, 2790-2800.	1.3	6
78	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, 3366-3376.	1.3	48
79	A multiway approach for classification and characterization of rabbit liver apothioneins by CE–ESI–MS. <i>Electrophoresis</i> , 2008, 29, 4355-4367.	1.3	22
80	CE-ESI-MS of biological anions in plastic capillaries at high pH. <i>Electrophoresis</i> , 2007, 28, 944-949.	1.3	11
81	Characterization of transferrin glycoforms in human serum by CE-UV and CE-ESI-MS. <i>Electrophoresis</i> , 2007, 28, 1949-1957.	1.3	55
82	Analysis of opioid peptides by on–line SPE–CE–ESI–MS. <i>Electrophoresis</i> , 2007, 28, 3957-3965.	1.3	43
83	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, 205-212.	1.8	65
84	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, 208-215.	2.6	39
85	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, 2555-2563.	0.7	37
86	Determination of human erythropoietin by on-line immunoaffinity capillary electrophoresis: a preliminary report. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 2633-2639.	1.9	32
87	Evaluation of the electrophoretic behaviour of opioid peptides. <i>Analytica Chimica Acta</i> , 2006, 577, 68-76.	2.6	28
88	Modelling migration behavior of peptide hormones in capillary electrophoresis-electrospray mass spectrometry. <i>Journal of Chromatography A</i> , 2006, 1117, 94-102.	1.8	39
89	Metabolite profiling of human urine by CE-ESI-MS using separation electrolytes at low pH. <i>Electrophoresis</i> , 2006, 27, 4570-4584.	1.3	28
90	Estimation of the composition of recombinant human erythropoietin mixtures using capillary electrophoresis and multivariate calibration methods. <i>Electrophoresis</i> , 2006, 27, 4008-4015.	1.3	13

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91	Design and optimization of a chemometrics-assisted spectrophotometric method for the simultaneous determination of levodopa and carbidopa in pharmaceutical products. <i>Analytica Chimica Acta</i> , 2005, 543, 192-198.	2.6	38
92	Comparison of sheathless and sheath-flow electrospray interfaces for the capillary electrophoresis-electrospray ionization-mass spectrometry analysis of peptides. <i>Electrophoresis</i> , 2005, 26, 1457-1465.	1.3	59
93	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, 1451-1456.	1.3	33
94	Separation and characterization of complex crude mixtures produced in the synthesis of therapeutic peptide hormones by liquid chromatography coupled to electrospray mass spectrometry (LC-ES-MS). <i>Analytica Chimica Acta</i> , 2004, 521, 25-36.	2.6	13
95	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, 5220-5229.	3.2	67
96	Liquid chromatography-mass spectrometry approach for the characterization and purification of crude synthetic peptide hormones. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 377, 306-315.	1.9	11
97	Capillary electrophoresis coupled to time of flight-mass spectrometry of therapeutic peptide hormones. <i>Electrophoresis</i> , 2003, 24, 883-891.	1.3	51
98	Evaluation of chromatographic versus electrophoretic behaviour of a series of therapeutical peptide hormones. <i>Journal of Chromatography A</i> , 2003, 985, 411-423.	1.8	19
99	pKa values of peptides in aqueous and aqueous-organic media. <i>Journal of Chromatography A</i> , 2002, 942, 145-156.	1.8	27
100	Liquid chromatography-mass spectrometry and capillary electrophoresis combined approach for separation and characterization of multicomponent peptide mixtures. <i>Journal of Chromatography A</i> , 2002, 950, 99-111.	1.8	28
101	Migration behavior of therapeutic peptide hormones: Prediction of optimal separation by capillary electrophoresis. <i>Electrophoresis</i> , 2001, 22, 4333-4340.	1.3	32
102	Electrophoretic behavior of peptides in capillary electrophoresis. <i>Journal of Chromatography A</i> , 2001, 921, 69-79.	1.8	17
103	Liquid chromatography-electrospray mass spectrometry of multicomponent peptide mixtures. <i>Journal of Chromatography A</i> , 2000, 889, 119-133.	1.8	15
104	Separation and characterization of multicomponent peptide mixtures by liquid chromatography-electrospray ionization mass spectrometry. <i>Journal of Chromatography A</i> , 2000, 870, 315-334.	1.8	19