

MarÃ-a JosÃ© Medina-HernÃ¡ndez

List of Publications by Year in descending order

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114
papers

2,623
citations

172457

29
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233421

45
g-index

115
all docs

115
docs citations

115
times ranked

1838
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation and instability of o-phthalaldehyde derivatives of amino acids. <i>Analytical Biochemistry</i> , 1989, 178, 1-7.	2.4	145
2	Soluteâ€mobile phase and soluteâ€stationary phase interactions in micellar liquid chromatography. A review. <i>Analyst, The</i> , 1992, 117, 831-837.	3.5	103
3	Biopartitioning micellar chromatography: an in vitro technique for predicting human drug absorption. <i>Biomedical Applications</i> , 2001, 753, 225-236.	1.7	93
4	Biopartitioning micellar separation methods: modelling drug absorption. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2003, 797, 21-35.	2.3	91
5	Cyclodextrins in capillary electrophoresis: Recent developments and new trends. <i>Journal of Chromatography A</i> , 2014, 1357, 2-23.	3.7	90
6	Quantitative Retentionâ€Structure and Retentionâ€Activity Relationship Studies of Local Anesthetics by Micellar Liquid Chromatography. <i>Analytical Chemistry</i> , 1998, 70, 28-34.	6.5	84
7	Characterization of interactions between polyphenolic compounds and human serum proteins by capillary electrophoresis. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 625-632.	3.7	77
8	Analysis of pharmaceutical preparations containing antihistamine drugs by micellar liquid chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006, 40, 312-321.	2.8	68
9	Potential of biopartitioning micellar chromatography as an in vitro technique for predicting drug penetration across the bloodâ€brain barrier. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004, 807, 193-201.	2.3	67
10	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
11	Studies on the formation and stability of isoindoles derived from amino acids, o-phthalaldehyde and N-acetyl-L-cysteine. <i>Analytical Biochemistry</i> , 1989, 180, 172-176.	2.4	64
12	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
13	Chromatographic monitoring of diuretics in urine samples using a sodium dodecyl sulphateâ€propranol micellar eluent. <i>Analytica Chimica Acta</i> , 1994, 287, 201-210.	5.4	62
14	Evaluation of the pH effect of formulations on the skin permeability of drugs by biopartitioning micellar chromatography. <i>Journal of Chromatography A</i> , 2004, 1047, 255-262.	3.7	54
15	Modelling bioconcentration of pesticides in fish using biopartitioning micellar chromatography. <i>Journal of Chromatography A</i> , 2005, 1063, 153-160.	3.7	47
16	Fast enantiomeric separation of propranolol by affinity capillary electrophoresis using human serum albumin as chiral selector: application to quality control of pharmaceuticals. <i>Analytica Chimica Acta</i> , 2004, 507, 171-178.	5.4	45
17	Biopartitioning micellar chromatography to predict skin permeability. <i>Biomedical Chromatography</i> , 2003, 17, 530-537.	1.7	43
18	Evaluation of diuretics in pharmaceuticals by high-performance liquid chromatography with a 0.05 mol dmâ€sodium dodecyl sulfateâ€3% propranol mobile phase. <i>Analyst, The</i> , 1992, 117, 843-847.	3.5	42

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19	Available Lysine in Protein, Assay Using o-Phthalaldehyde/ N-Acetyl-L-cysteine Spectrophotometric Method. <i>Journal of Food Science</i> , 1992, 57, 503-505.	3.1	42
20	Biopartitioning micellar chromatography to predict ecotoxicity. <i>Analytica Chimica Acta</i> , 2001, 448, 173-185.	5.4	36
21	Chromatographic evaluation of the toxicity in fish of pesticides. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005, 814, 115-125.	2.3	34
22	Characterization of antihistamine-human serum protein interactions by capillary electrophoresis. <i>Journal of Chromatography A</i> , 2007, 1147, 261-269.	3.7	34
23	Development of predictive retention-activity relationship models of non-steroidal anti-inflammatory drugs by micellar liquid chromatography: comparison with immobilized artificial membrane columns. <i>Biomedical Applications</i> , 2000, 740, 59-70.	1.7	32
24	High-throughput capillary electrophoresis frontal analysis method for the study of drug interactions with human serum albumin at near-physiological conditions. <i>Electrophoresis</i> , 2004, 25, 3176-3185.	2.4	32
25	Characterization of basic drug-human serum protein interactions by capillary electrophoresis. <i>Electrophoresis</i> , 2006, 27, 3410-3419.	2.4	32
26	A micellar liquid chromatographic procedure for the determination of amiloride, bendroflumethiazide, chlorthalidone, spironolactone and triamterene in pharmaceuticals. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1993, 11, 711-716.	2.8	31
27	Spectrophotometric determination of N-acetylcysteine in drug formulations with o-phthalaldehyde and isoleucine. <i>Analyst, The</i> , 1989, 114, 975-977.	3.5	30
28	Multivariate optimization approach for chiral resolution of drugs using human serum albumin in affinity electrokinetic chromatography-partial filling technique. <i>Electrophoresis</i> , 2005, 26, 4116-4126.	2.4	30
29	Retention-property relationships of anticonvulsant drugs by biopartitioning micellar chromatography. <i>Biomedical Applications</i> , 2001, 757, 89-99.	1.7	29
30	Comparison between sodium dodecylsulphate and cetyltrimethylammonium bromide as mobile phases in the micellar liquid chromatography determination of non-steroidal anti-inflammatory drugs in pharmaceuticals. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004, 36, 393-399.	2.8	29
31	Determination of barbiturates in urine by micellar liquid chromatography and direct injection of sample. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1999, 21, 331-338.	2.8	25
32	Retention pharmacokinetic and pharmacodynamic parameter relationships of antihistamine drugs using biopartitioning micellar chromatography. <i>Biomedical Applications</i> , 2001, 761, 13-26.	1.7	25
33	Enantioseparation of phenothiazines by affinity electrokinetic chromatography using human serum albumin as chiral selector. <i>Analytica Chimica Acta</i> , 2007, 582, 223-228.	5.4	25
34	Chiral separation of oxprenolol by affinity electrokinetic chromatography-partial filling technique using human serum albumin as chiral selector. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005, 39, 76-81.	2.8	24
35	Direct chromatographic study of the enantioselective biodegradation of ibuprofen and ketoprofen by an activated sludge. <i>Journal of Chromatography A</i> , 2018, 1568, 140-148.	3.7	24
36	Screening of acetylcholinesterase inhibitors by CE after enzymatic reaction at capillary inlet. <i>Journal of Separation Science</i> , 2009, 32, 1748-1756.	2.5	23

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37	Determination of the protein and free amino acid content in a sample using o-phthalaldehyde and N-acetyl-L-cysteine. <i>Analyst</i> , The, 1990, 115, 1125-1128.	3.5	22
38	An LD50 model for predicting psychotropic drug toxicity using biopartitioning micellar chromatography. <i>Biomedical Chromatography</i> , 2001, 15, 31-40.	1.7	22
39	Evaluation of enantioselective binding of basic drugs to plasma by ACE. <i>Electrophoresis</i> , 2007, 28, 3056-3063.	2.4	22
40	In-line capillary electrophoretic evaluation of the enantioselective metabolism of verapamil by cytochrome P3A4. <i>Journal of Chromatography A</i> , 2013, 1298, 139-145.	3.7	22
41	Rapid in vitro test to predict ocular tissue permeability based on biopartitioning micellar chromatography. <i>European Journal of Pharmaceutical Sciences</i> , 2003, 20, 209-216.	4.0	21
42	Quality control of pharmaceuticals containing non-steroidal anti-inflammatory drugs by micellar liquid chromatography. <i>Chromatographia</i> , 2002, 55, 283-288.	1.3	20
43	Chiral separation of bupivacaine enantiomers by capillary electrophoresis partial-filling technique with human serum albumin as chiral selector. <i>Journal of Chromatography A</i> , 2004, 1048, 111-118.	3.7	20
44	Permeability and toxicological profile estimation of organochlorine compounds by biopartitioning micellar chromatography. <i>Biomedical Chromatography</i> , 2009, 23, 382-389.	1.7	20
45	Modeling the chiral resolution ability of highly sulfated β -cyclodextrin for basic compounds in electrokinetic chromatography. <i>Journal of Chromatography A</i> , 2013, 1308, 152-160.	3.7	19
46	Quantitative structure-retention relationships for ionic and non-ionic compounds in biopartitioning micellar chromatography. <i>Biomedical Chromatography</i> , 2005, 19, 155-168.	1.7	18
47	Potential of human serum albumin as chiral selector of basic drugs in affinity electrokinetic chromatography-partial filling technique. <i>Electrophoresis</i> , 2006, 27, 4364-4374.	2.4	18
48	Enantiomeric quality control of antihistamines in pharmaceuticals by affinity electrokinetic chromatography with human serum albumin as chiral selector. <i>Analytica Chimica Acta</i> , 2007, 592, 202-209.	5.4	18
49	Quantitative retention- and migration-toxicity relationships of phenoxy acid herbicides in micellar liquid chromatography and micellar electrokinetic chromatography. <i>Analytica Chimica Acta</i> , 2001, 443, 191-203.	5.4	17
50	Chromatographic estimation of the soil-sorption coefficients of organic compounds. <i>TrAC - Trends in Analytical Chemistry</i> , 2006, 25, 122-132.	11.4	17
51	Harmonized internal quality aspects of a multi-residue method for determination of forty-six semivolatile compounds in water by stir-bar-sorptive extraction-thermal desorption gas chromatography-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 2537-2545.	3.7	17
52	A micellar liquid chromatographic method for quality control of pharmaceutical preparations containing tricyclic antidepressants. <i>Chromatographia</i> , 2002, 56, 299-306.	1.3	15
53	Permeability Profile Estimation of Flavonoids and other Phenolic Compounds by Biopartitioning Micellar Capillary Chromatography. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 8372-8379.	5.2	15
54	Evaluation of enantioselective binding of antihistamines to human serum albumin by ACE. <i>Electrophoresis</i> , 2007, 28, 2635-2643.	2.4	15

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55	Microseparation techniques for the study of the enantioselectivity of drug's plasma protein binding. <i>Biomedical Chromatography</i> , 2009, 23, 225-238.	1.7	15
56	Biopartitioning micellar chromatography to predict blood to lung, blood to liver, blood to fat and blood to skin partition coefficients of drugs. <i>Analytica Chimica Acta</i> , 2009, 632, 296-303.	5.4	15
57	Evaluation of enantioselective binding of fluoxetine to human serum albumin by ultrafiltration and CE - Experimental design and quality considerations. <i>Electrophoresis</i> , 2010, 31, 3268-3280.	2.4	15
58	Fast evaluation of enantioselective drug metabolism by electrophoretically mediated microanalysis: Application to fluoxetine metabolism by CYP2D6. <i>Electrophoresis</i> , 2013, 34, 3214-3220.	2.4	15
59	Determination of total free amino acids with o-phthalaldehyde and N-acetyl-L-cysteine. <i>Microchemical Journal</i> , 1990, 42, 288-293.	4.5	14
60	Biopartitioning micellar chromatography: An alternative high-throughput method for assessing the ecotoxicity of anilines and phenols. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 852, 353-361.	2.3	14
61	Simultaneous Determination of Pyridoxine and Riboflavin in Energy Drinks by High-Performance Liquid Chromatography with Fluorescence Detection. <i>Journal of Chemical Education</i> , 2015, 92, 903-906.	2.3	14
62	Experimental-Like Affinity Constants and Enantioselectivity Estimates from Flexible Docking. <i>Journal of Chemical Information and Modeling</i> , 2012, 52, 2754-2759.	5.4	13
63	Use of the o-Phthalaldehyde and N-Acetyl-L-Cysteine the Evaluation of Milk Proteins. <i>Journal of Dairy Science</i> , 1991, 74, 1779-1785.	3.4	12
64	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
65	Role of hydrophobicity on the monoamine receptor binding affinities of central nervous system drugs: a quantitative retention-activity relationships analysis using biopartitioning micellar chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004, 801, 185-198.	2.3	12
66	Biopartitioning micellar chromatography to predict mutagenicity of aromatic amines. <i>European Journal of Medicinal Chemistry</i> , 2007, 42, 1396-1402.	5.5	12
67	On the zopiclone enantioselective binding to human albumin and plasma proteins. An electrokinetic chromatography approach. <i>Journal of Chromatography A</i> , 2011, 1218, 3111-3117.	3.7	12
68	Evaluation of the enantioselective binding of imazalil to human serum albumin by capillary electrophoresis. <i>Biomedical Chromatography</i> , 2015, 29, 1637-1642.	1.7	12
69	Evaluation of the proteolysis degree with the o-phthalaldehyde/N-acetyl-L-cysteine reagent. <i>Fresenius' Journal of Analytical Chemistry</i> , 1990, 338, 62-65.	1.5	11
70	Emerging approaches to estimate retention factors in high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2005, 1094, 24-33.	3.7	11
71	Uncertainty-Based Internal Quality Control. Harmonization Considerations. <i>Analytical Chemistry</i> , 2006, 78, 8113-8120.	6.5	11
72	Determination of fluoxetine enantiomers in pharmaceutical formulations by electrokinetic chromatography - counter current technique. <i>Biomedical Chromatography</i> , 2013, 27, 377-381.	1.7	11

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73	Characterizing the interaction between enantiomers of eight psychoactive drugs and highly sulfated γ -cyclodextrin by counter-current capillary electrophoresis. <i>Biomedical Chromatography</i> , 2014, 28, 120-126.	1.7	11
74	Fit-for-purpose chromatographic method for the determination of amikacin in human plasma for the dosage control of patients. <i>Talanta</i> , 2016, 150, 510-515.	5.5	11
75	Opioid analgetics retention-activity models using biopartitioning micellar chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2002, 766, 265-277.	2.3	10
76	Connecting simulated, bioanalytical, and molecular docking data on the stereoselective binding of ($\Delta\pm$)-catechin to human serum albumin. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 1899-1909.	3.7	10
77	Determination of procaine and tetracaine in plasma samples by micellar liquid chromatography and direct injection of sample. <i>Chromatographia</i> , 2001, 53, 256-260.	1.3	9
78	Stability Studies of Binary Mixtures of Haloperidol and/or Midazolam with Other Drugs for Parenteral Administration. <i>Journal of Palliative Medicine</i> , 2007, 10, 1306-1311.	1.1	9
79	On the Retention of Diuretics in Micellar Liquid Chromatography and Their Site of Action Within the Nephron. <i>Analytical Letters</i> , 1993, 26, 1881-1889.	1.8	8
80	Effect of the nature of the solvent on the limit of detection in thermal lens spectrometry. <i>Analytica Chimica Acta</i> , 1994, 296, 285-294.	5.4	8
81	Determination of Anticonvulsant Drugs in Pharmaceutical Preparations by Micellar Liquid Chromatography. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2004, 27, 153-170.	1.0	8
82	Estimation of the effect of the acidosis and alkalosis on the anesthetic potency of local anesthetics by biopartitioning micellar chromatography and micellar electrokinetic chromatography. <i>European Journal of Medicinal Chemistry</i> , 2005, 40, 215-223.	5.5	8
83	On the measurement of consistent long-term retention factor values in micellar liquid chromatography. <i>Analytica Chimica Acta</i> , 2007, 595, 19-27.	5.4	7
84	Enantioseparation of nuarimol by affinity electrokinetic chromatography-partial filling technique using human serum albumin as chiral selector. <i>Journal of Separation Science</i> , 2008, 31, 3265-3271.	2.5	7
85	Trimeprazine is enantioselectively degraded by an activated sludge in ready biodegradability test conditions. <i>Water Research</i> , 2018, 141, 57-64.	11.3	7
86	Chromatographic retention-activity relationships for prediction of the toxicity pH-dependence of phenols. <i>Chemosphere</i> , 2007, 69, 108-117.	8.2	6
87	Fast-multivariate optimization of chiral separations in capillary electrophoresis: Anticipative strategies. <i>Journal of Chromatography A</i> , 2014, 1363, 331-337.	3.7	6
88	Enantioresolution in electrokinetic chromatography-complete filling technique using sulfated γ -cyclodextrin. Software-free topological anticipation. <i>Journal of Chromatography A</i> , 2016, 1467, 391-399.	3.7	6
89	Modelling the enantioresolution capability of cellulose tris(3,5-dichlorophenylcarbamate) stationary phase in reversed phase conditions for neutral and basic chiral compounds. <i>Journal of Chromatography A</i> , 2018, 1567, 111-118.	3.7	6
90	Comparative modelling study on enantioresolution of structurally unrelated compounds with amylose-based chiral stationary phases in reversed phase liquid chromatography-mass spectrometry conditions. <i>Journal of Chromatography A</i> , 2020, 1625, 461281.	3.7	6

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91	Some observations on the automation by flow injection analysis of the spectrophotometric determination of amino acids and proteins with o-phthalaldehyde. <i>Mikrochimica Acta</i> , 1992, 108, 293-298.	5.0	5
92	Correlation between hydrophobicity of amino acids and retention data in reversed-phase liquid chromatography with micellar eluents. <i>Chromatographia</i> , 1995, 41, 455-461.	1.3	5
93	Chromatographic multivariate quality control of pharmaceuticals giving strongly overlapped peaks based on the chromatogram profile. <i>Journal of Chromatography A</i> , 2004, 1029, 135-144.	3.7	5
94	Comparison between micellar liquid chromatography and capillary zone electrophoresis for the determination of hydrophobic basic drugs in pharmaceutical preparations. <i>Biomedical Chromatography</i> , 2007, 21, 21-28.	1.7	5
95	A diagnostic tool for determining the quality of accuracy validation. Assessing the method for determination of nitrate in drinking water. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 619-625.	3.7	5
96	Spectrophotometric determination of cystine by formation of an o-phthalaldehyde/N-acetyl-L-cysteine derivative. <i>Microchemical Journal</i> , 1989, 40, 292-296.	4.5	4
97	Efficiency of antidepressant drugs as monoamine reuptake inhibitors: analysis of the hydrophobicity influence using biopartitioning micellar chromatographic data. <i>Biomedical Chromatography</i> , 2004, 18, 427-435.	1.7	4
98	Evaluation of enantioselective binding of propanocaine to human serum albumin by ultrafiltration and electrokinetic chromatography under intermediate precision conditions. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 889-890, 87-94.	2.3	4
99	Electrokinetic chromatographic estimation of the enantioselective binding of nomifensine to human serum albumin and total plasma proteins. <i>Biomedical Chromatography</i> , 2012, 26, 1357-1363.	1.7	4
100	Enantioselective Study on the Biodegradation of Verapamil and Citalopram by Chiral Capillary Electrophoresis. <i>Separations</i> , 2021, 8, 29.	2.4	4
101	Artificial neural networks to model the enantioresolution of structurally unrelated neutral and basic compounds with cellulose tris(3,5-dimethylphenylcarbamate) chiral stationary phase and aqueous-acetonitrile mobile phases. <i>Journal of Chromatography A</i> , 2022, 1672, 463048.	3.7	4
102	Comparative study on retention behaviour and enantioresolution of basic and neutral structurally unrelated compounds with cellulose-based chiral stationary phases in reversed phase liquid chromatography-mass spectrometry conditions. <i>Journal of Chromatography A</i> , 2022, 1673, 463073.	3.7	4
103	Catalytic enthalpimetric determination of diethyldithiocarbamate (DDTC) and nickel(II) using the iodine-azide reaction. <i>Thermochimica Acta</i> , 1985, 90, 277-285.	2.7	3
104	Spectrophotometric Determination of Cystine with O-Phthalaldehyde in the Absence of Thiol. <i>Analytical Letters</i> , 1988, 21, 1545-1559.	1.8	3
105	Reversed phase liquid chromatography for the enantioseparation of local anaesthetics in polysaccharide-based stationary phases. Application to biodegradability studies. <i>Journal of Chromatography A</i> , 2020, 1625, 461334.	3.7	3
106	Some observations on the reaction of cysteine with o-phthalaldehyde. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1988, 44, 1461-1464.	0.1	2
107	Thermal lens spectrometric determination of cerium with oxine. <i>Microchemical Journal</i> , 1991, 44, 222-227.	4.5	2
108	Improved accuracy of environmentally relevant parameter estimates derived from biodegradation assays. <i>Environmental Pollution</i> , 2019, 255, 113275.	7.5	1

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109	Anticipating the impact of pitfalls in kinetic biodegradation parameter estimation from substrate depletion curves of organic pollutants. <i>Environmental Pollution</i> , 2019, 252, 128-136.	7.5	1
110	Catalytic-thermometric determination of stability constants of complexes using the iodine-azide reaction. <i>Thermochimica Acta</i> , 1986, 103, 325-332.	2.7	0
111	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
112	Enantioselective Drug-Plasma Protein-Binding Studies by Capillary Electrophoresis. , 2017, , 225-257.		0
113	Electrophoretically Mediated Microanalysis for Evaluation of Enantioselective Drug Metabolism. , 2017, , 277-303.		0
114	Monod-based "single-data"™ strategy for biodegradation screening tests. <i>Environmental Chemistry</i> , 2020, 17, 278.	1.5	0