Santiago Maspoch

List of Publications by Year
in descending order

125 papers	3,683 citations	109264	168321
		35 h-index	53 g-index

| 126 all docs | 126 docs citations | 126 times ranked | 2780 citing authors |

#	Article	IF	Citations
1	An efficient microfluidic device based on electromembrane extraction for the simultaneous extraction of acidic and basic drugs. Analytica Chimica Acta, 2021, 1160, 338448.	2.6	17
2	Evaluation of NIR and Raman spectroscopies for the quality analytical control of a solid pharmaceutical formulation with three active ingredients.. Microchemical Journal, 2020, 154, 104576.	2.3	12
3	Robust freeze-drying process re-design of a legacy product based on risk analysis and design of experiments. Drug Development and Industrial Pharmacy, 2020, 46, 2022-2031.	0.9	1
4	Impedance model for voltage optimization of parabens extraction in an electromembrane millifluidic device. Journal of Chromatography A, 2020, 1625, 461270.	1.8	18
5	Finding a reliable limit of detection in the NIR determination of residual moisture in a freeze-dried drug product. Journal of Pharmaceutical and Biomedical Analysis, 2020, 183, 113163.	1.4	8
6	Evaluation of a handheld near-infrared spectrophotometer for quantitative determination of two APIs in a solid pharmaceutical preparation. Analytical Methods, 2019, 11, 327-335.	1.3	11
7	The influence of particle size on the intensity and reproducibility of Raman spectra of compacted samples. Vibrational Spectroscopy, 2019, 100, 48-56.	1.2	40
8	Enzymatic synthesis of a thiolated chitosan-based wound dressing crosslinked with chicoric acid. Journal of Materials Chemistry B, 2018, 6, 7943-7953.	2.9	27
9	A simple and fast Double-Flow microfluidic device based liquid-phase microextraction (DF-ÂµLPME) for the determination of parabens in water samples. Talanta, 2017, 165, 496-501.	2.9	37
10	Recent advances in sample pre-treatment for emerging methods in proteomic analysis. Talanta, 2017, 174, 738-751.	2.9	5
11	Raman spectroscopy for the analytical quality control of low-dose break-scored tablets. Journal of Pharmaceutical and Biomedical Analysis, 2016, 124, 207-215.	1.4	9
12	An effective microfluidic based liquid-phase microextraction device (Î¼LPME) for extraction of non-steroidal anti-inflammatory drugs from biological and environmental samples. Analytica Chimica Acta, 2016, 946, 56-63.	2.6	65
13	Raman spectroscopy as a complementary tool to assess the content uniformity of dosage units in break-scored warfarin tablets. International Journal of Pharmaceutics, 2014, 465, 299-305.	2.6	28
14	Expeditious identification and semi-quantification of Panax ginseng using near infrared spectral fingerprints and multivariate analysis. Analytical Methods, 2013, 5, 857.	1.3	8
15	NIR reflectance determination of warfarin in a solid preparation commercialized at different API mass proportions. Analytical Methods, 2013, 5, 3858.	1.3	6
16	Enhanced chromatographic fingerprinting of herb materials by multi-wavelength selection and chemometrics. Analytica Chimica Acta, 2012, 710, 40-49.	2.6	59
17	Multi-wavelength high-performance liquid chromatographic fingerprints and chemometrics to predict the antioxidant activity of Turnera diffusa as part of its quality control. Journal of Chromatography A, 2012, 1235, 68-76.	1.8	50
18	Enhancing sensitivity and precision on NIR reflectance determination of an API at low concentration: Application to an hormonal preparation. Journal of Pharmaceutical and Biomedical Analysis, 2012, 60, 59-64.	1.4	11

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19	Application of near infrared spectral fingerprinting and pattern recognition techniques for fast identification of Eleutherococcus senticosus. Food Research International, 2011, 44, 557-565.	2.9	30
20	Aza-Michael reaction with enone-modified vegetable oils: evidence of the keto–enolic equilibrium by NIR chemical imaging and evolving factor analysis. Analytical and Bioanalytical Chemistry, 2011, 399, 1975-1982.	1.9	1
21	Fast assessment of the surface distribution of API and excipients in tablets using NIR-hyperspectral imaging. International Journal of Pharmaceutics, 2011, 411, 27-35.	2.6	49
22	Implementation of enhanced correlation maps in near infrared chemical images: Application in pharmaceutical research. Talanta, 2009, 79, 657-664.	2.9	21
23	On-line parallel factor analysis. A step forward in the monitoring of bioprocesses in real time. Chemometrics and Intelligent Laboratory Systems, 2008, 92, 44-52.	1.8	26
24	Study of pharmaceutical samples by NIR chemical-image and multivariate analysis. TrAC - Trends in Analytical Chemistry, 2008, 27, 696-713.	5.8	139
25	Solving GC-MS problems with PARAFAC2. TrAC - Trends in Analytical Chemistry, 2008, 27, 714-725.	5.8	134
26	Application of Representative Layer Theory to Near-Infrared Reflectance Spectra of Powdered Samples. Applied Spectroscopy, 2008, 62, 1363-1369.	1.2	5
27	An Introduction to Multivariate Curve Resolution-Alternating Least Squares: Spectrophotometric Study of the Acid–Base Equilibria of 8-Hydroxyquinoline-5-sulfonic Acid. Journal of Chemical Education, 2007, 84, 1190.	1.1	21
28	A mixed hard- and soft-modelling approach to study and monitor enzymatic systems in biological fluids. Analytica Chimica Acta, 2006, 567, 245-254.	2.6	55
29	A mixed hard- and soft-modelling approach for the quantitative determination of oxipurines and uric acid in human urine. Analytica Chimica Acta, 2006, 567, 236-244.	2.6	49
30	Parallel factor analysis combined with PLS regression applied to the on-line monitoring of Pichia pastoris cultures. Analytical and Bioanalytical Chemistry, 2006, 385, 1281-1288.	1.9	28
31	Three-way partial least-squares regression for the simultaneous kinetic-enzymatic determination of xanthine and hypoxanthine in human urine. Analytical and Bioanalytical Chemistry, 2005, 382, 1380-1388.	1.9	36
32	Kinetic-spectrophotometric determination of theophylline, dyphylline, and proxyphylline by use of partial least-squares regression. Analytical and Bioanalytical Chemistry, 2002, 374, 33-38.	1.9	6
33	Preliminary results of an interlaboratory study of chemometric software and methods on NIR data. Predicting the content of crude protein and water in forages. Chemometrics and Intelligent Laboratory Systems, 2002, 63, 93-105.	1.8	16
34	Geographical Origin Classification of Petroleum Crudes from Near-Infrared Spectra of Bitumens. Applied Spectroscopy, 2001, 55, 834-839.	1.2	29
35	Multi-component kinetic–spectrophotometric analysis. Selection of wavelength and time ranges. Analyst, The, 2001, 126, 1135-1141.	1.7	2
36	Influence of the procedure used to prepare the calibration sample set on the performance of near infrared spectroscopy in quantitative pharmaceutical analyses. Analyst, The, 2001, 126, 1129-1134.	1.7	38

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37	Determination of physical properties of bitumens by use of near-infrared spectroscopy with neural networks. Joint modelling of linear and non-linear parameters. Analyst, The, 2001, 126, 378-382.	1.7	12
38	Analytical control of a pharmaceutical formulation of sodium picosulfate by capillary zone electrophoresis. Biomedical Applications, 2001, 751, 29-36.	1.7	7
39	Resolution of isomers of sorbitolparaben esters by chromatographic and electrophoretic techniques. Biomedical Applications, 2001, 752, 99-105.	1.7	3
40	Effect of orthogonal signal correction on the determination of compounds with very similar near infrared spectra. Analytica Chimica Acta, 2001, 431, 303-311.	2.6	30
41	Determination of physico-chemical parameters for bitumens using near infrared spectroscopy. Analytica Chimica Acta, 2001, 434, 133-141.	2.6	19
42	Use of circular dichroism and artificial neural networks for the kinetic-spectrophotometric resolution of enantiomers. Analytica Chimica Acta, 2001, 431, 115-123.	2.6	11
43	Near Infrared Spectrometry and Pattern Recognition as Screening Methods for the Authentication of Virgin Olive Oils of Very Close Geographical Origins. Journal of Near Infrared Spectroscopy, 2000, 8, 45-52.	0.8	74
44	Direct determination of leather dyes by visible reflectance spectroscopy using partial least-squares regression. Analytica Chimica Acta, 2000, 419, 209-214.	2.6	15
45	Circular dichroism spectra of cyclodextrins–ketoprofen inclusion complexes. Analytica Chimica Acta, 2000, 407, 233-245.	2.6	24
46	Determination of polymorphic purity by near infrared spectrometry. Analytica Chimica Acta, 2000, 407, 247-254.	2.6	38
47	NIR calibration in non-linear systems: different PLS approaches and artificial neural networks. Chemometrics and Intelligent Laboratory Systems, 2000, 50, 75-82.	1.8	148
48	Evaluation of classical and three-way multivariate calibration procedures in kinetic-spectrophotometric analysis. Analytica Chimica Acta, 2000, 424, 115-126.	2.6	29
49	Development and validation of a near infrared method for the analytical control of a pharmaceutical preparation in three steps of the manufacturing process. Fresenius' Journal of Analytical Chemistry, 2000, 368, 534-539.	1.5	26
50	Simultaneous kinetic-spectrophotometric determination of levodopa and benserazide by bi- and three-way partial least squares calibration. Talanta, 2000, 53, 627-637.	2.9	95
51	Determination of the penetration value of bitumens by near infrared spectroscopy. Analyst, The, 2000, 125, 1823-1828.	1.7	15
52	On-line monitoring of starch enzymatic hydrolysis by near- infrared spectroscopy. Analyst, The, 2000, 125, 749-752.	1.7	17
53	Simultaneous Spectrophotometric Determination of Levodopa and Benserazide in a Pharmaceutical. Analytical Letters, 2000, 33, 2701-2718.	1.0	14
54	Modelling of an environmental parameter by use of the alternating conditional expectation method. Chemometrics and Intelligent Laboratory Systems, 1999, 46, 31-39.	1.8	5

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55	Handling intrinsic non-linearity in near-infrared reflectance spectroscopy. Chemometrics and Intelligent Laboratory Systems, 1999, 49, 215-224.	1.8	45
56	Development and validation of a method for the analysis of a pharmaceutical preparation by near-infrared diffuse reflectance spectroscopy. Journal of Pharmaceutical Sciences, 1999, 88, 551-556.	1.6	38
57	Use of near-infrared spectrometry in control analyses of acrylic fibre manufacturing processes. Analytica Chimica Acta, 1999, 383, 291-298.	2.6	21
58	Calibration in non-linear near infrared reflectance spectroscopy: a comparison of several methods. Analytica Chimica Acta, 1999, 384, 207-214.	2.6	70
59	Analytical control of pharmaceutical production steps by near infrared reflectance spectroscopy. Analytica Chimica Acta, 1999, 392, 237-246.	2.6	61
60	Simultaneous enzymatic spectrophotometric determination of ethanol and methanol by use of artificial neural networks for calibration. Analytica Chimica Acta, 1999, 398, 83-92.	2.6	28
61	Analytical control of organic additives in electrolytic baths by UV spectroscopy in combination with multivariate analysis. Fresenius' Journal of Analytical Chemistry, 1999, 363, 364-368.	1.5	6
62	Determination of olive oil free fatty acid by fourier transform infrared spectroscopy. JAOCS, Journal of the American Oil Chemists' Society, 1999, 76, 611-616.	0.8	62
63	Use of Inverse Multiple Linear Regression (ILS) for the Analytical Control of Pharmaceutical Preparations. UV-Visible Spectrophotometric Quantitation of an Active Principal in the Presence of Absorbing Excipients. Analytical Letters, 1999, 32, 1169-1181.	1.0	5
64	Development and validation of methods for the determination of miokamycin in various pharmaceutical preparations by use of near infrared reflectance spectroscopy. Analyst, The, 1999, 124, 1089-1092.	1.7	21
65	Kinetic spectrophotometric determination of hydrocortisone acetate in a pharmaceutical preparation by use of partial least- squares regression. Analyst, The, 1999, 124, 911-915.	1.7	29
66	Chiral and nonchiral determination of ketoprofen in pharmaceuticals by capillary zone electrophoresis. Journal of Chromatography A, 1998, 799, 301-307.	1.8	27
67	Metal binding properties of three Cys2X2 (X = His, Asp) metallothionein-related peptides. Inorganica Chimica Acta, 1998, 278, 10-14.	1.2	7
68	Separation of profen enantiomers by capillary electrophoresis using cyclodextrins as chiral selectors. Journal of Chromatography A, 1998, 793, 165-175.	1.8	61
69	Determination of water in lubricating oils by mid- and near-infrared spectroscopy. Mikrochimica Acta, 1998, 128, 235-239.	2.5	25
70	Near-infrared analytical control of pharmaceuticals. A single calibration model from mixed phase to coated tablets. Analyst, The, 1998, 123, 2307-2312.	1.7	33
71	Near-infrared spectroscopy in the pharmaceutical industry. Analyst, The, 1998, 123, 135R-150R.	1.7	212
72	Calibration in near Infrared Diffuse Reflectance Spectroscopy. A Comparative Study of Various Methods. Journal of Near Infrared Spectroscopy, 1997, 5, 67-75.	0.8	7

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73	Strategies for Constructing the Calibration Set in the Determination of Active Principles in Pharmaceuticals by Near Infrared Diffuse Reflectance Spectrometry. Analyst, The, 1997, 122, 761-765.	1.7	36
74	Determination of Finishing Oils in Acrylic Fibres by Near-infrared Reflectance Spectrometry. Analyst, The, 1997, 122, 777-781.	1.7	33
75	Effect of Data Preprocessing Methods in Near-Infrared Diffuse Reflectance Spectroscopy for the Determination of the Active Compound in a Pharmaceutical Preparation. Applied Spectroscopy, 1997, 51, 240-246.	1.2	73
76	UV-spectrophotometric determination of ketoprofen and paraben in a gel preparation by partial least-squares calibration. Fresenius' Journal of Analytical Chemistry, 1997, 357, 967-972.	1.5	28
77	Determination of water in ferrous lactate by near infrared reflectance spectroscopy with a fibre-optic probe. Journal of Pharmaceutical and Biomedical Analysis, 1997, 16, 255-262.	1.4	26
78	Determination of accelerators and antioxidants in vulcanized rubber by fourier transform infrared spectrophotometry. Analytica Chimica Acta, 1997, 353, 351-358.	2.6	7
79	Use of indirect multiple linear regression for multicomponent dye analysis in a leather tanning bath. Coloration Technology, 1997, 113, 311-316.	0.1	1
80	Effect of Day-To-Day Noise on UV-Visible Spectrophotometric Control Analyses of Mixtures by Principal Component Regression. Applied Spectroscopy, 1996, 50, 576-582.	1.2	5
81	Application of partial least-squares regression to the resolution of highly correlated spectra. Simultaneous spectrofluorimetric determination of Al, Ga and In. Talanta, 1996, 43, 1489-1496.	2.9	23
82	Simultaneous kinetic spectrophotometric determination of o-, m-and p-aminophenol using partial least squares calibration. Analyst, The, 1996, 121, 407-412.	1.7	35
83	Artificial neural networks and partial least squares regression for pseudo-first-order with respect to the reagent multicomponent kinetic-spectrophotometric determinations. Analyst, The, 1996, 121, 395-400.	1.7	41
84	Application of the Davidon-Fletcher-Powell algorithm to the resolution of multicomponent mixtures using UV-vis spectrophotometry. Analytica Chimica Acta, 1996, 327, 145-152.	2.6	5
85	Quantitation of the active compound and major excipients in a pharmaceutical formulation by near infrared diffuse reflectance spectroscopy with fibre optical probe. Analytica Chimica Acta, 1996, 333, 147-156.	2.6	62
86	Partial least-squares regression for the quantitation of pharmaceutical dosages in control analyses. Journal of Pharmaceutical and Biomedical Analysis, 1996, 15, 329-338.	1.4	14
87	Spectrofluorimetric Identification of Polycyclic Aromatic Hydrocarbons at PPB Level. Analytical Letters, 1996, 29, 1603-1617.	1.0	3
88	Partial least-squares regression for multicomponent kinetic determinations in linear and non-linear systems. Analytica Chimica Acta, 1995, 303, 309-320.	2.6	31
89	Simultaneous spectrophotometric determination of fat-soluble vitamins in multivitamin pharmaceutical preparations. Fresenius' Journal of Analytical Chemistry, 1995, 351, 315-319.	1.5	8
90	Fia Fluorimetric Determination of Calcium Pantothenate. Validation and Quantitation in Multivitamin Preparations. Analytical Letters, 1995, 28, 821-833.	1.0	4

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91	Artificial Neural Networks for Multicomponent Kinetic Determinations. Analytical Chemistry, 1995, 67, 4477-4483.	3.2	71
92	Wavelength Calibration Transfer between Diode Array UV-Visible Spectrophotometers. Applied Spectroscopy, 1995, 49, 593-597.	1.2	21
93	Simultaneous Determination of Rubber Additives by FT-IR Spectrophotometry with Multivariate Calibration. Applied Spectroscopy, 1995, 49, 747-753.	1.2	11
94	Simultaneous multiwavelength spectrophotometric determination of 1:2 metal–complex dyes for leather. Coloration Technology, 1995, 111, 199-202.	0.1	1
95	Control analysis of a pharmaceutical preparation by near-infrared reflectance spectroscopy. Analytica Chimica Acta, 1994, 298, 183-191.	2.6	38
96	Spectrophotometric determination of pharmaceutical dosages by partial least-squares calibration. Journal of Pharmaceutical and Biomedical Analysis, 1994, 12, 509-514.	1.4	31
97	Principal Component Regression for Mixture Resolution in Control Analysis by UV-Visible Spectrophotometry. Applied Spectroscopy, 1994, 48, 37-43.	1.2	43
98	Analysis of cotton–polyester yarns by near-infrared reflectance spectroscopy. Analyst, The, 1994, 119, 1779-1785.	1.7	19
99	Kinetic spectrophotometric method for analyzing mixtures of metal ions by stopped-flow injection analysis using partial least-squares regression. Analytical Chemistry, 1994, 66, 2905-2911.	3.2	36
100	Spectrophotometric Analysis of a Pharmaceutical Preparation by Principal Component Regression. Journal of Pharmaceutical Sciences, 1993, 82, 834-837.	1.6	29
101	Determination of ascorbic acid in pharmaceutical preparations by near infrared reflectance spectroscopy. Talanta, 1993, 40, 1671-1676.	2.9	28
102	Kinetic spectrophotometric determination of Ga(III)-Al(III) mixtures by stopped-flow injection analysis using principal component regression. Talanta, 1993, 40, 261-267.	2.9	43
103	Analysis of Multicomponent Spectra by the Simplex Method. Analytical Letters, 1992, 25, 543-560.	1.0	8
104	Determination of carbohydrazide at trace and subtrace levels. Talanta, 1992, 39, 1313-1316.	2.9	2
105	Simultaneous spectrophotometric determination of Zinc(II) and Nickel(II) with 1-(2-pyridylazo)-2-naphthol. Mikrochimica Acta, 1992, 108, 53-59.	2.5	3
106	Multi-component analysis of concentrated solutions by flow-injection analysis with zone sampling and partial least-squares resolution. Analytica Chimica Acta, 1992, 259, 219-224.	2.6	20
107	Application of multicomponent spectrophotometry to analytical control of electroplating solutions. Fresenius' Journal of Analytical Chemistry, 1991, 340, 410-414.	1.5	6
108	Precision of a diode-array spectrophotometer. Analytica Chimica Acta, 1990, 234, 395-401.	2.6	10

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109	Diode array detectors in flow injection analysis. Simultaneous determination of rare earth metals with Arsenazo III. Fresenius' Journal of Analytical Chemistry, 1990, 338, 831-835.	1.5	6
110	Simultaneous determination of metal ions. Catalytic oxidation of cobalt by metal ions when extracted with quinolin-8-ol. Analytica Chimica Acta, 1990, 230, 221-224.	2.6	5
111	Simultaneous determination of two components by spectrofluorimetric techniques. Analytica Chimica Acta, 1990, 233, 159-163.	2.6	14
112	Use of diode-array detectors for the simultaneous spectrophotometric determination of calcium and magnesium by flow injection. Analytica Chimica Acta, 1989, 224, 23-30.	2.6	26
113	Simultaneous determination of metal ions. Analytica Chimica Acta, 1989, 222, 271-279.	2.6	17
114	Simultaneous determination of metal ions. Analytica Chimica Acta, 1989, 226, 271-279.	2.6	19
115	A simple method for spectrophotometric determination of two-components with overlapped spectra. Journal of Chemical Education, 1989, 66, 178.	1.1	26
116	Flow Injection Amperometric Determination of Pharmaceuticals. Archiv Der Pharmazie, 1988, 321, 725-728.	2.1	10
117	Simultaneous multiwavelength spectrophotometric quantitation of active components in analgesic formulations. Comparative study of three calculation methods. Journal of Pharmaceutical and Biomedical Analysis, 1988, 6, 765-772.	1.4	39
118	Diode-array detectors in flow-injection analysis Mixture resolution by multi-wavelength analysis. Talanta, 1987, 34, 987-993.	2.9	94
119	Application of a photodiode array detector to multi-component determination by flow injection analysis. Analyst, The, 1987, 112, 619-622.	1.7	44
120	Catalytic determination of manganese at ultra-trace levels by flow injection analysis. Analyst, The, 1986, 111, 69-72.	1.7	16
121	Determination of sulphur dioxide by flow injection analysis with amperometric detection. Analytica Chimica Acta, 1986, 179, 445-451.	2.6	45
122	Determination of cyanide by a highly sensitive indirect spectrophotometric method. Talanta, 1984, 31, 85-87.	2.9	14
123	4-(8-Quinolylazo)-1-Aminonaphtalene as a Metallochromic Indicator for Cu(II), Ni (II) and Hg(II). Analytical Letters, 1984, 17, 1009-1023.	1.0	0
124	5-phenylazo-8-aminoquinoline as a sensitive reagent for the extraction-spectrophotometric determination of palladium(II). Mikrochimica Acta, 1983, 81, 11-20.	2.5	13
125	8-Aminoquinoline and 5,7-Dihalogen Derivatives. Determination of Protonation Constants and Some Gravimetric Applications. Mikrochimica Acta, 1983, 81, 95-104.	2.5	3