Santiago Maspoch

List of Publications by Year in Descending Order

125 papers	3,050 citations	30 h-index	48 g-index
126 ext. papers	3,236 ext. citations	5 avg, IF	4.74 L-index

#	Paper	IF	Citations
125	An efficient microfluidic device based on electromembrane extraction for the simultaneous extraction of acidic and basic drugs. *Analytica Chimica Acta*, **2021**, 1160, 338448	6.6	7
124	Impedance model for voltage optimization of parabens extraction in an electromembrane millifluidic device. *Journal of Chromatography A*, **2020**, 1625, 461270	4.5	7
123	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	3.5	3
122	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	4.8	10
121	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	3.6	0
120	Evaluation of a handheld near-infrared spectrophotometer for quantitative determination of two APIs in a solid pharmaceutical preparation. *Analytical Methods*, **2019**, 11, 327-335	3.2	7
119	The influence of particle size on the intensity and reproducibility of Raman spectra of compacted samples. *Vibrational Spectroscopy*, **2019**, 100, 48-56	2.1	21
118	Enzymatic synthesis of a thiolated chitosan-based wound dressing crosslinked with chicoric acid. *Journal of Materials Chemistry B*, **2018**, 6, 7943-7953	7.3	15
117	A simple and fast Double-Flow microfluidic device based liquid-phase microextraction (DF-□LPME) for the determination of parabens in water samples. *Talanta*, **2017**, 165, 496-501	6.2	26
116	Recent advances in sample pre-treatment for emerging methods in proteomic analysis. *Talanta*, **2017**, 174, 738-751	6.2	5
115	Raman spectroscopy for the analytical quality control of low-dose break-scored tablets. *Journal of Pharmaceutical and Biomedical Analysis*, **2016**, 124, 207-215	3.5	9
114	An effective microfluidic based liquid-phase microextraction device (□PME) for extraction of non-steroidal anti-inflammatory drugs from biological and environmental samples. *Analytica Chimica Acta*, **2016**, 946, 56-63	6.6	47
113	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	6.5	26
112	Expeditious identification and semi-quantification of Panax ginseng using near infrared spectral fingerprints and multivariate analysis. *Analytical Methods*, **2013**, 5, 857	3.2	7
111	NIR reflectance determination of warfarin in a solid preparation commercialized at different API mass proportions. *Analytical Methods*, **2013**, 5, 3858	3.2	6
110	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	3.5	11
109	Enhanced chromatographic fingerprinting of herb materials by multi-wavelength selection and chemometrics. *Analytica Chimica Acta*, **2012**, 710, 40-9	6.6	46

108	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	4.5	44
107	Application of near infrared spectral fingerprinting and pattern recognition techniques for fast identification of Eleutherococcus senticosus. *Food Research International*, **2011**, 44, 557-565	7	26
106	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, 1975-82	4.4	1
105	Fast assessment of the surface distribution of API and excipients in tablets using NIR-hyperspectral imaging. *International Journal of Pharmaceutics*, **2011**, 411, 27-35	6.5	44
104	Implementation of enhanced correlation maps in near infrared chemical images: application in pharmaceutical research. *Talanta*, **2009**, 79, 657-64	6.2	21
103	Simultaneous multiwavelength spectrophotometric determination of 1:2 metal-complex dyes for leather. *Coloration Technology*, **2008**, 111, 199-202		1
102	Application of representative layer theory to near-infrared reflectance spectra of powdered samples. *Applied Spectroscopy*, **2008**, 62, 1363-9	3.1	4
101	Use of indirect multiple linear regression for multicomponent dye analysis in a leather tanning bath. *Coloration Technology*, **2008**, 113, 311-316		1
100	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	3.8	22
99	Study of pharmaceutical samples by NIR chemical-image and multivariate analysis. *TrAC - Trends in Analytical Chemistry*, **2008**, 27, 696-713	14.6	120
98	Solving GC-MS problems with PARAFAC2. *TrAC - Trends in Analytical Chemistry*, **2008**, 27, 714-725	14.6	110
97	An Introduction to Multivariate Curve Resolution-Alternating Least Squares: Spectrophotometric Study of the AcidBase Equilibria of 8-Hydroxyquinoline-5-sulfonic Acid. *Journal of Chemical Education*, **2007**, 84, 1190	2.4	20
96	Parallel factor analysis combined with PLS regression applied to the on-line monitoring of Pichia pastoris cultures. *Analytical and Bioanalytical Chemistry*, **2006**, 385, 1281-8	4.4	26
95	A mixed hard- and soft-modelling approach to study and monitor enzymatic systems in biological fluids. *Analytica Chimica Acta*, **2006**, 567, 245-254	6.6	52
94	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	6.6	47
93	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, 1380-8	4.4	30
92	Kinetic-spectrophotometric determination of theophylline, dyphylline, and proxyphylline by use of partial least-squares regression. *Analytical and Bioanalytical Chemistry*, **2002**, 374, 33-8	4.4	4
91	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	3.8	12

90	Analytical control of a pharmaceutical formulation of sodium picosulfate by capillary zone electrophoresis. *Biomedical Applications*, **2001**, 751, 29-36		5
89	Resolution of isomers of sorbitolparaben esters by chromatographic and electrophoretic techniques. *Biomedical Applications*, **2001**, 752, 99-105		2
88	Effect of orthogonal signal correction on the determination of compounds with very similar near infrared spectra. *Analytica Chimica Acta*, **2001**, 431, 303-311	6.6	23
87	Determination of physico-chemical parameters for bitumens using near infrared spectroscopy. *Analytica Chimica Acta*, **2001**, 434, 133-141	6.6	17
86	Use of circular dichroism and artificial neural networks for the kinetic-spectrophotometric resolution of enantiomers. *Analytica Chimica Acta*, **2001**, 431, 115-123	6.6	10
85	Geographical Origin Classification of Petroleum Crudes from Near-Infrared Spectra of Bitumens. *Applied Spectroscopy*, **2001**, 55, 834-839	3.1	24
84	Multi-component kinetic-spectrophotometric analysis. Selection of wavelength and time ranges. *Analyst, The*, **2001**, 126, 1135-41	5	2
83	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, 1129-34	5	34
82	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, 378-82	5	12
81	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	1.5	70
80	Direct determination of leather dyes by visible reflectance spectroscopy using partial least-squares regression. *Analytica Chimica Acta*, **2000**, 419, 209-214	6.6	11
79	Circular dichroism spectra of cyclodextrin–ketoprofen inclusion complexes: Determination of enantiomeric purity. *Analytica Chimica Acta*, **2000**, 407, 233-245	6.6	23
78	Determination of polymorphic purity by near infrared spectrometry. *Analytica Chimica Acta*, **2000**, 407, 247-254	6.6	30
77	NIR calibration in non-linear systems: different PLS approaches and artificial neural networks. *Chemometrics and Intelligent Laboratory Systems*, **2000**, 50, 75-82	3.8	114
76	Evaluation of classical and three-way multivariate calibration procedures in kinetic-spectrophotometric analysis. *Analytica Chimica Acta*, **2000**, 424, 115-126	6.6	24
75	Development and validation of a near infrared method for the analytical control of a pharmaceutical preparation in three steps of the manufacturing process. *Freseniust Journal of Analytical Chemistry*, **2000**, 368, 534-9		21
74	Simultaneous kinetic-spectrophotometric determination of levodopa and benserazide by bi- and three-way partial least squares calibration. *Talanta*, **2000**, 53, 627-37	6.2	87
73	Determination of the penetration value of bitumens by near infrared spectroscopy. *Analyst, The*, **2000**, 125, 1823-1828	5	11

72	On-line monitoring of starch enzymatic hydrolysis by near- infrared spectroscopy. *Analyst, The*, **2000**, 125, 749-752	5	10
71	Simultaneous Spectrophotometric Determination of Levodopa and Benserazide in a Pharmaceutical. *Analytical Letters*, **2000**, 33, 2701-2718	2.2	12
70	Modelling of an environmental parameter by use of the alternating conditional expectation method. *Chemometrics and Intelligent Laboratory Systems*, **1999**, 46, 31-39	3.8	5
69	Handling intrinsic non-linearity in near-infrared reflectance spectroscopy. *Chemometrics and Intelligent Laboratory Systems*, **1999**, 49, 215-224	3.8	39
68	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, 551-6	3.9	30
67	Use of near-infrared spectrometry in control analyses of acrylic fibre manufacturing processes. *Analytica Chimica Acta*, **1999**, 383, 291-298	6.6	19
66	Calibration in non-linear near infrared reflectance spectroscopy: a comparison of several methods. *Analytica Chimica Acta*, **1999**, 384, 207-214	6.6	63
65	Analytical control of pharmaceutical production steps by near infrared reflectance spectroscopy. *Analytica Chimica Acta*, **1999**, 392, 237-246	6.6	56
64	Simultaneous enzymatic spectrophotometric determination of ethanol and methanol by use of artificial neural networks for calibration. *Analytica Chimica Acta*, **1999**, 398, 83-92	6.6	26
63	Analytical control of organic additives in electrolytic baths by UV spectroscopy in combination with multivariate analysis. *Freseniust Journal of Analytical Chemistry*, **1999**, 363, 364-368		6
62	Determination of olive oil free fatty acid by fourier transform infrared spectroscopy. *JAOCS, Journal of the American Oil Chemiststociety*, **1999**, 76, 611-616	1.8	56
61	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	2.2	4
60	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, 1089-92	5	15
59	Kinetic spectrophotometric determination of hydrocortisone acetate in a pharmaceutical preparation by use of partial least-squares regression. *Analyst, The*, **1999**, 124, 911-5	5	26
58	Chiral and nonchiral determination of ketoprofen in pharmaceuticals by capillary zone electrophoresis. *Journal of Chromatography A*, **1998**, 799, 301-7	4.5	23
57	Metal binding properties of three Cys2X2 (X = His, Asp) metallothionein-related peptides. *Inorganica Chimica Acta*, **1998**, 278, 10-14	2.7	7
56	Separation of profen enantiomers by capillary electrophoresis using cyclodextrins as chiral selectors. *Journal of Chromatography A*, **1998**, 793, 165-75	4.5	57
55	Determination of water in lubricating oils by mid- and near-infrared spectroscopy. *Mikrochimica Acta*, **1998**, 128, 235-239	5.8	20

54	Near-infrared analytical control of pharmaceuticals. A single calibration model from mixed phase to coated tablets. *Analyst, The*, **1998**, 123, 2307-12	5	28
53	Near-infrared spectroscopy in the pharmaceutical industry. *Analyst, The*, **1998**, 123, 135R-150R	5	178
52	Calibration in near Infrared Diffuse Reflectance Spectroscopy. A Comparative Study of Various Methods. *Journal of Near Infrared Spectroscopy*, **1997**, 5, 67-75	1.5	5
51	Strategies for Constructing the Calibration Set in theDetermination of Active Principles in Pharmaceuticals by Near InfraredDiffuse Reflectance Spectrometry. *Analyst, The*, **1997**, 122, 761-765	5	28
50	Determination of Finishing Oils in Acrylic Fibres by Near-infraredReflectance Spectrometry. *Analyst, The*, **1997**, 122, 777-781	5	28
49	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	3.1	58
48	UV-spectrophotometric determination of ketoprofen and paraben in a gel preparation by partial least-squares calibration. *Freseniust Journal of Analytical Chemistry*, **1997**, 357, 967-972		16
47	Determination of water in ferrous lactate by near infrared reflectance spectroscopy with a fibre-optic probe. *Journal of Pharmaceutical and Biomedical Analysis*, **1997**, 16, 255-62	3.5	23
46	Determination of accelerators and antioxidants in vulcanized rubber by fourier transform infrared spectrophotometry. *Analytica Chimica Acta*, **1997**, 353, 351-358	6.6	5
45	Effect of Day-To-Day Noise on UV-Visible Spectrophotometric Control Analyses of Mixtures by Principal Component Regression. *Applied Spectroscopy*, **1996**, 50, 576-582	3.1	5
44	Application of partial least-squares regression to the resolution of highly correlated spectra. Simultaneous spectrofluorimetric determination of Al(3+), Ga(3+) and In(3+). *Talanta*, **1996**, 43, 1489-96	6.2	20
43	Simultaneous kinetic spectrophotometric determination of o-, m-and p-aminophenol using partial least squares calibration. *Analyst, The*, **1996**, 121, 407-412	5	23
42	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	5	34
41	Application of the Davidon-Fletcher-Powell algorithm to the resolution of multicomponent mixtures using UV-vis spectrophotometry. *Analytica Chimica Acta*, **1996**, 327, 145-152	6.6	5
40	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	6.6	45
39	Partial least-squares regression for the quantitation of pharmaceutical dosages in control analyses. *Journal of Pharmaceutical and Biomedical Analysis*, **1996**, 15, 329-38	3.5	12
38	Spectrofluorimetric Identification of Polycyclic Aromatic Hydrocarbons at PPB Level. *Analytical Letters*, **1996**, 29, 1603-1617	2.2	2
37	Simultaneous spectrophotometric determination of fat-soluble vitamins in multivitamin pharmaceutical preparations. *Freseniust Journal of Analytical Chemistry*, **1995**, 351, 315-319		7

36	Fia Fluorimetric Determination of Calcium Pantothenate. Validation and Quantitation in Multivitamin Preparations. *Analytical Letters*, **1995**, 28, 821-833	2.2	3
35	Artificial neural networks for multicomponent kinetic determinations. *Analytical Chemistry*, **1995**, 67, 4477-83	7.8	62
34	Wavelength Calibration Transfer between Diode Array UV-Visible Spectrophotometers. *Applied Spectroscopy*, **1995**, 49, 593-597	3.1	19
33	Simultaneous Determination of Rubber Additives by FT-IR Spectrophotometry with Multivariate Calibration. *Applied Spectroscopy*, **1995**, 49, 747-753	3.1	6
32	Partial least-squares regression for multicomponent kinetic determinations in linear and non-linear systems. *Analytica Chimica Acta*, **1995**, 303, 309-320	6.6	24
31	Control analysis of a pharmaceutical preparation by near-infrared reflectance spectroscopy. *Analytica Chimica Acta*, **1994**, 298, 183-191	6.6	29
30	Spectrophotometric determination of pharmaceutical dosages by partial least-squares calibration. *Journal of Pharmaceutical and Biomedical Analysis*, **1994**, 12, 509-14	3.5	31
29	Principal Component Regression for Mixture Resolution in Control Analysis by UV-Visible Spectrophotometry. *Applied Spectroscopy*, **1994**, 48, 37-43	3.1	37
28	Analysis of cotton□olyester yarns by near-infrared reflectance spectroscopy. *Analyst, The*, **1994**, 119, 1779-1785	5	12
27	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	7.8	27
26	Determination of ascorbic acid in pharmaceutical preparations by near infrared reflectance spectroscopy. *Talanta*, **1993**, 40, 1671-6	6.2	21
25	Kinetic spectrophotometric determination of Ga(III)-Al(III) mixtures by stopped-flow injection analysis using principal component regression. *Talanta*, **1993**, 40, 261-7	6.2	35
24	Spectrophotometric analysis of a pharmaceutical preparation by principal component regression. *Journal of Pharmaceutical Sciences*, **1993**, 82, 834-7	3.9	29
23	Analysis of Multicomponent Spectra by the Simplex Method. *Analytical Letters*, **1992**, 25, 543-560	2.2	6
22	Determination of carbohydrazide at trace and subtrace levels. *Talanta*, **1992**, 39, 1313-6	6.2	2
21	Simultaneous spectrophotometric determination of Zinc(II) and Nickel(II) with 1-(2-pyridylazo)-2-naphthol. *Mikrochimica Acta*, **1992**, 108, 53-59	5.8	2
20	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	6.6	16
19	Application of multicomponent spectrophotometry to analytical control of electroplating solutions. *Freseniust Journal of Analytical Chemistry*, **1991**, 340, 410-414		6

18	Precision of a diode-array spectrophotometer. *Analytica Chimica Acta*, **1990**, 234, 395-401	6.6	9
17	Diode array detectors in flow injection analysis. Simultaneous determination of rare earth metals with Arsenazo III. *Freseniust Journal of Analytical Chemistry*, **1990**, 338, 831-835		6
16	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	6.6	3
15	Simultaneous determination of two components by spectrofluorimetric techniques. *Analytica Chimica Acta*, **1990**, 233, 159-163	6.6	12
14	Use of diode-array detectors for the simultaneous spectrophotometric determination of calcium and magnesium by flow injection. *Analytica Chimica Acta*, **1989**, 224, 23-30	6.6	22
13	Simultaneous determination of metal ions. *Analytica Chimica Acta*, **1989**, 222, 271-279	6.6	8
12	Simultaneous determination of metal ions. *Analytica Chimica Acta*, **1989**, 226, 271-279	6.6	17
11	A simple method for spectrophotometric determination of two-components with overlapped spectra. *Journal of Chemical Education*, **1989**, 66, 178	2.4	21
10	Flow injection amperometric determination of pharmaceuticals. *Archiv Der Pharmazie*, **1988**, 321, 725-8	4.3	10
9	Simultaneous multiwavelength spectrophotometric quantitation of active components in analgesic formulations. Comparative study of three calculation methods. *Journal of Pharmaceutical and Biomedical Analysis*, **1988**, 6, 765-72	3.5	37
8	Diode-array detectors in flow-injection analysis Mixture resolution by multi-wavelength analysis. *Talanta*, **1987**, 34, 987-93	6.2	76
7	Application of a photodiode array detector to multi-component determination by flow injection analysis. *Analyst, The*, **1987**, 112, 619-622	5	39
6	Determination of sulphur dioxide by flow injection analysis with amperometric detection. *Analytica Chimica Acta*, **1986**, 179, 445-451	6.6	34
5	Catalytic determination of manganese at ultra-trace levels by flow injection analysis. *Analyst, The*, **1986**, 111, 69-72	5	11
4	Determination of cyanide by a highly sensitive indirect spectrophotometric method. *Talanta*, **1984**, 31, 85-7	6.2	9
3	4-(8-Quinolylazo)-1-Aminonaphtalene as a Metallochromic Indicator for Cu(II), Ni (II) and Hg(II). *Analytical Letters*, **1984**, 17, 1009-1023	2.2	
2	5-phenylazo-8-aminoquinoline as a sensitive reagent for the extraction-spectrophotometric determination of palladium(II). *Mikrochimica Acta*, **1983**, 81, 11-20	5.8	12
1	8-Aminoquinoline and 5,7-Dihalogen Derivatives. Determination of Protonation Constants and Some Gravimetric Applications. *Mikrochimica Acta*, **1983**, 81, 95-104	5.8	3