

Santiago Maspoch

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125
papers

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30
h-index

48
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126
ext. papers

3,236
ext. citations

5
avg, IF

4.74
L-index

#	Paper	IF	Citations
125	Near-infrared spectroscopy in the pharmaceutical industry. <i>Analyst, The</i> , 1998 , 123, 135R-150R	5	178
124	Study of pharmaceutical samples by NIR chemical-image and multivariate analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2008 , 27, 696-713	14.6	120
123	NIR calibration in non-linear systems: different PLS approaches and artificial neural networks. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2000 , 50, 75-82	3.8	114
122	Solving GC-MS problems with PARAFAC2. <i>TrAC - Trends in Analytical Chemistry</i> , 2008 , 27, 714-725	14.6	110
121	Simultaneous kinetic-spectrophotometric determination of levodopa and benserazide by bi- and three-way partial least squares calibration. <i>Talanta</i> , 2000 , 53, 627-37	6.2	87
120	Diode-array detectors in flow-injection analysis Mixture resolution by multi-wavelength analysis. <i>Talanta</i> , 1987 , 34, 987-93	6.2	76
119	Near Infrared Spectrometry and Pattern Recognition as Screening Methods for the Authentication of Virgin Olive Oils of Very Close Geographical Origins. <i>Journal of Near Infrared Spectroscopy</i> , 2000 , 8, 45-52	1.5	70
118	Calibration in non-linear near infrared reflectance spectroscopy: a comparison of several methods. <i>Analytica Chimica Acta</i> , 1999 , 384, 207-214	6.6	63
117	Artificial neural networks for multicomponent kinetic determinations. <i>Analytical Chemistry</i> , 1995 , 67, 4477-83	7.8	62
116	Effect of Data Preprocessing Methods in Near-Infrared Diffuse Reflectance Spectroscopy for the Determination of the Active Compound in a Pharmaceutical Preparation. <i>Applied Spectroscopy</i> , 1997 , 51, 240-246	3.1	58
115	Separation of profen enantiomers by capillary electrophoresis using cyclodextrins as chiral selectors. <i>Journal of Chromatography A</i> , 1998 , 793, 165-75	4.5	57
114	Analytical control of pharmaceutical production steps by near infrared reflectance spectroscopy. <i>Analytica Chimica Acta</i> , 1999 , 392, 237-246	6.6	56
113	Determination of olive oil free fatty acid by Fourier transform infrared spectroscopy. <i>JAOCS, Journal of the American Oil ChemiststSociety</i> , 1999 , 76, 611-616	1.8	56
112	A mixed hard- and soft-modelling approach to study and monitor enzymatic systems in biological fluids. <i>Analytica Chimica Acta</i> , 2006 , 567, 245-254	6.6	52
111	A mixed hard- and soft-modelling approach for the quantitative determination of oxipurines and uric acid in human urine. <i>Analytica Chimica Acta</i> , 2006 , 567, 236-244	6.6	47
110	An effective microfluidic based liquid-phase microextraction device (IPME) for extraction of non-steroidal anti-inflammatory drugs from biological and environmental samples. <i>Analytica Chimica Acta</i> , 2016 , 946, 56-63	6.6	47
109	Enhanced chromatographic fingerprinting of herb materials by multi-wavelength selection and chemometrics. <i>Analytica Chimica Acta</i> , 2012 , 710, 40-9	6.6	46

108	Quantitation of the active compound and major excipients in a pharmaceutical formulation by near infrared diffuse reflectance spectroscopy with fibre optical probe. <i>Analytica Chimica Acta</i> , 1996 , 333, 147-156	6.6	45
107	Multi-wavelength high-performance liquid chromatographic fingerprints and chemometrics to predict the antioxidant activity of <i>Turnera diffusa</i> as part of its quality control. <i>Journal of Chromatography A</i> , 2012 , 1235, 68-76	4.5	44
106	Fast assessment of the surface distribution of API and excipients in tablets using NIR-hyperspectral imaging. <i>International Journal of Pharmaceutics</i> , 2011 , 411, 27-35	6.5	44
105	Handling intrinsic non-linearity in near-infrared reflectance spectroscopy. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1999 , 49, 215-224	3.8	39
104	Application of a photodiode array detector to multi-component determination by flow injection analysis. <i>Analyst, The</i> , 1987 , 112, 619-622	5	39
103	Principal Component Regression for Mixture Resolution in Control Analysis by UV-Visible Spectrophotometry. <i>Applied Spectroscopy</i> , 1994 , 48, 37-43	3.1	37
102	Simultaneous multiwavelength spectrophotometric quantitation of active components in analgesic formulations. Comparative study of three calculation methods. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1988 , 6, 765-72	3.5	37
101	Kinetic spectrophotometric determination of Ga(III)-Al(III) mixtures by stopped-flow injection analysis using principal component regression. <i>Talanta</i> , 1993 , 40, 261-7	6.2	35
100	Influence of the procedure used to prepare the calibration sample set on the performance of near infrared spectroscopy in quantitative pharmaceutical analyses. <i>Analyst, The</i> , 2001 , 126, 1129-34	5	34
99	Artificial neural networks and partial least squares regression for pseudo-first-order with respect to the reagent multicomponent kinetic-spectrophotometric determinations. <i>Analyst, The</i> , 1996 , 121, 395-400	5	34
98	Determination of sulphur dioxide by flow injection analysis with amperometric detection. <i>Analytica Chimica Acta</i> , 1986 , 179, 445-451	6.6	34
97	Spectrophotometric determination of pharmaceutical dosages by partial least-squares calibration. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1994 , 12, 509-14	3.5	31
96	Three-way partial least-squares regression for the simultaneous kinetic-enzymatic determination of xanthine and hypoxanthine in human urine. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 382, 1380-8	4.4	30
95	Determination of polymorphic purity by near infrared spectrometry. <i>Analytica Chimica Acta</i> , 2000 , 407, 247-254	6.6	30
94	Development and validation of a method for the analysis of a pharmaceutical preparation by near-infrared diffuse reflectance spectroscopy. <i>Journal of Pharmaceutical Sciences</i> , 1999 , 88, 551-6	3.9	30
93	Control analysis of a pharmaceutical preparation by near-infrared reflectance spectroscopy. <i>Analytica Chimica Acta</i> , 1994 , 298, 183-191	6.6	29
92	Spectrophotometric analysis of a pharmaceutical preparation by principal component regression. <i>Journal of Pharmaceutical Sciences</i> , 1993 , 82, 834-7	3.9	29
91	Strategies for Constructing the Calibration Set in the Determination of Active Principles in Pharmaceuticals by Near Infrared Diffuse Reflectance Spectrometry. <i>Analyst, The</i> , 1997 , 122, 761-765	5	28

90	Determination of Finishing Oils in Acrylic Fibres by Near-infrared Reflectance Spectrometry. <i>Analyst, The</i> , 1997 , 122, 777-781	5	28
89	Near-infrared analytical control of pharmaceuticals. A single calibration model from mixed phase to coated tablets. <i>Analyst, The</i> , 1998 , 123, 2307-12	5	28
88	Kinetic spectrophotometric method for analyzing mixtures of metal ions by stopped-flow injection analysis using partial least-squares regression. <i>Analytical Chemistry</i> , 1994 , 66, 2905-2911	7.8	27
87	A simple and fast Double-Flow microfluidic device based liquid-phase microextraction (DF- μ LPME) for the determination of parabens in water samples. <i>Talanta</i> , 2017 , 165, 496-501	6.2	26
86	Raman spectroscopy as a complementary tool to assess the content uniformity of dosage units in break-scored warfarin tablets. <i>International Journal of Pharmaceutics</i> , 2014 , 465, 299-305	6.5	26
85	Application of near infrared spectral fingerprinting and pattern recognition techniques for fast identification of <i>Eleutherococcus senticosus</i> . <i>Food Research International</i> , 2011 , 44, 557-565	7	26
84	Parallel factor analysis combined with PLS regression applied to the on-line monitoring of <i>Pichia pastoris</i> cultures. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 385, 1281-8	4.4	26
83	Simultaneous enzymatic spectrophotometric determination of ethanol and methanol by use of artificial neural networks for calibration. <i>Analytica Chimica Acta</i> , 1999 , 398, 83-92	6.6	26
82	Kinetic spectrophotometric determination of hydrocortisone acetate in a pharmaceutical preparation by use of partial least-squares regression. <i>Analyst, The</i> , 1999 , 124, 911-5	5	26
81	Evaluation of classical and three-way multivariate calibration procedures in kinetic-spectrophotometric analysis. <i>Analytica Chimica Acta</i> , 2000 , 424, 115-126	6.6	24
80	Geographical Origin Classification of Petroleum Crudes from Near-Infrared Spectra of Bitumens. <i>Applied Spectroscopy</i> , 2001 , 55, 834-839	3.1	24
79	Partial least-squares regression for multicomponent kinetic determinations in linear and non-linear systems. <i>Analytica Chimica Acta</i> , 1995 , 303, 309-320	6.6	24
78	Determination of water in ferrous lactate by near infrared reflectance spectroscopy with a fibre-optic probe. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1997 , 16, 255-62	3.5	23
77	Chiral and nonchiral determination of ketoprofen in pharmaceuticals by capillary zone electrophoresis. <i>Journal of Chromatography A</i> , 1998 , 799, 301-7	4.5	23
76	Effect of orthogonal signal correction on the determination of compounds with very similar near infrared spectra. <i>Analytica Chimica Acta</i> , 2001 , 431, 303-311	6.6	23
75	Circular dichroism spectra of cyclodextrins-ketoprofen inclusion complexes: Determination of enantiomeric purity. <i>Analytica Chimica Acta</i> , 2000 , 407, 233-245	6.6	23
74	Simultaneous kinetic spectrophotometric determination of o-, m- and p-aminophenol using partial least squares calibration. <i>Analyst, The</i> , 1996 , 121, 407-412	5	23
73	On-line parallel factor analysis. A step forward in the monitoring of bioprocesses in real time. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2008 , 92, 44-52	3.8	22

72	Use of diode-array detectors for the simultaneous spectrophotometric determination of calcium and magnesium by flow injection. <i>Analytica Chimica Acta</i> , 1989 , 224, 23-30	6.6	22
71	Implementation of enhanced correlation maps in near infrared chemical images: application in pharmaceutical research. <i>Talanta</i> , 2009 , 79, 657-64	6.2	21
70	Development and validation of a near infrared method for the analytical control of a pharmaceutical preparation in three steps of the manufacturing process. <i>Fresenius Journal of Analytical Chemistry</i> , 2000 , 368, 534-9		21
69	Determination of ascorbic acid in pharmaceutical preparations by near infrared reflectance spectroscopy. <i>Talanta</i> , 1993 , 40, 1671-6	6.2	21
68	A simple method for spectrophotometric determination of two-components with overlapped spectra. <i>Journal of Chemical Education</i> , 1989 , 66, 178	2.4	21
67	The influence of particle size on the intensity and reproducibility of Raman spectra of compacted samples. <i>Vibrational Spectroscopy</i> , 2019 , 100, 48-56	2.1	21
66	Determination of water in lubricating oils by mid- and near-infrared spectroscopy. <i>Mikrochimica Acta</i> , 1998 , 128, 235-239	5.8	20
65	An Introduction to Multivariate Curve Resolution-Alternating Least Squares: Spectrophotometric Study of the Acid-Base Equilibria of 8-Hydroxyquinoline-5-sulfonic Acid. <i>Journal of Chemical Education</i> , 2007 , 84, 1190	2.4	20
64	Application of partial least-squares regression to the resolution of highly correlated spectra. Simultaneous spectrofluorimetric determination of Al(3+), Ga(3+) and In(3+). <i>Talanta</i> , 1996 , 43, 1489-96	6.2	20
63	Use of near-infrared spectrometry in control analyses of acrylic fibre manufacturing processes. <i>Analytica Chimica Acta</i> , 1999 , 383, 291-298	6.6	19
62	Wavelength Calibration Transfer between Diode Array UV-Visible Spectrophotometers. <i>Applied Spectroscopy</i> , 1995 , 49, 593-597	3.1	19
61	Determination of physico-chemical parameters for bitumens using near infrared spectroscopy. <i>Analytica Chimica Acta</i> , 2001 , 434, 133-141	6.6	17
60	Simultaneous determination of metal ions. <i>Analytica Chimica Acta</i> , 1989 , 226, 271-279	6.6	17
59	UV-spectrophotometric determination of ketoprofen and paraben in a gel preparation by partial least-squares calibration. <i>Fresenius Journal of Analytical Chemistry</i> , 1997 , 357, 967-972		16
58	Multi-component analysis of concentrated solutions by flow-injection analysis with zone sampling and partial least-squares resolution. <i>Analytica Chimica Acta</i> , 1992 , 259, 219-224	6.6	16
57	Development and validation of methods for the determination of miokamycin in various pharmaceutical preparations by use of near infrared reflectance spectroscopy. <i>Analyst, The</i> , 1999 , 124, 1089-92	5	15
56	Enzymatic synthesis of a thiolated chitosan-based wound dressing crosslinked with chicoric acid. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 7943-7953	7.3	15
55	Preliminary results of an interlaboratory study of chemometric software and methods on NIR data. Predicting the content of crude protein and water in forages. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2002 , 63, 93-105	3.8	12

54	Simultaneous Spectrophotometric Determination of Levodopa and Benserazide in a Pharmaceutical. <i>Analytical Letters</i> , 2000 , 33, 2701-2718	2.2	12
53	Determination of physical properties of bitumens by use of near-infrared spectroscopy with neural networks. Joint modelling of linear and non-linear parameters. <i>Analyst, The</i> , 2001 , 126, 378-82	5	12
52	Partial least-squares regression for the quantitation of pharmaceutical dosages in control analyses. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1996 , 15, 329-38	3.5	12
51	Analysis of cotton/polyester yarns by near-infrared reflectance spectroscopy. <i>Analyst, The</i> , 1994 , 119, 1779-1785	5	12
50	Simultaneous determination of two components by spectrofluorimetric techniques. <i>Analytica Chimica Acta</i> , 1990 , 233, 159-163	6.6	12
49	5-phenylazo-8-aminoquinoline as a sensitive reagent for the extraction-spectrophotometric determination of palladium(II). <i>Mikrochimica Acta</i> , 1983 , 81, 11-20	5.8	12
48	Enhancing sensitivity and precision on NIR reflectance determination of an API at low concentration: Application to an hormonal preparation. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012 , 60, 59-64	3.5	11
47	Direct determination of leather dyes by visible reflectance spectroscopy using partial least-squares regression. <i>Analytica Chimica Acta</i> , 2000 , 419, 209-214	6.6	11
46	Determination of the penetration value of bitumens by near infrared spectroscopy. <i>Analyst, The</i> , 2000 , 125, 1823-1828	5	11
45	Catalytic determination of manganese at ultra-trace levels by flow injection analysis. <i>Analyst, The</i> , 1986 , 111, 69-72	5	11
44	Use of circular dichroism and artificial neural networks for the kinetic-spectrophotometric resolution of enantiomers. <i>Analytica Chimica Acta</i> , 2001 , 431, 115-123	6.6	10
43	On-line monitoring of starch enzymatic hydrolysis by near- infrared spectroscopy. <i>Analyst, The</i> , 2000 , 125, 749-752	5	10
42	Flow injection amperometric determination of pharmaceuticals. <i>Archiv Der Pharmazie</i> , 1988 , 321, 725-8	4.3	10
41	Evaluation of NIR and Raman spectroscopies for the quality analytical control of a solid pharmaceutical formulation with three active ingredients.. <i>Microchemical Journal</i> , 2020 , 154, 104576	4.8	10
40	Precision of a diode-array spectrophotometer. <i>Analytica Chimica Acta</i> , 1990 , 234, 395-401	6.6	9
39	Determination of cyanide by a highly sensitive indirect spectrophotometric method. <i>Talanta</i> , 1984 , 31, 85-7	6.2	9
38	Raman spectroscopy for the analytical quality control of low-dose break-scored tablets. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 124, 207-215	3.5	9
37	Simultaneous determination of metal ions. <i>Analytica Chimica Acta</i> , 1989 , 222, 271-279	6.6	8

36	Evaluation of a handheld near-infrared spectrophotometer for quantitative determination of two APIs in a solid pharmaceutical preparation. <i>Analytical Methods</i> , 2019 , 11, 327-335	3.2	7
35	Impedance model for voltage optimization of parabens extraction in an electromembrane millifluidic device. <i>Journal of Chromatography A</i> , 2020 , 1625, 461270	4.5	7
34	Expeditious identification and semi-quantification of Panax ginseng using near infrared spectral fingerprints and multivariate analysis. <i>Analytical Methods</i> , 2013 , 5, 857	3.2	7
33	Metal binding properties of three Cys ₂ X ₂ (X = His, Asp) metallothionein-related peptides. <i>Inorganica Chimica Acta</i> , 1998 , 278, 10-14	2.7	7
32	Simultaneous spectrophotometric determination of fat-soluble vitamins in multivitamin pharmaceutical preparations. <i>Fresenius Journal of Analytical Chemistry</i> , 1995 , 351, 315-319		7
31	An efficient microfluidic device based on electromembrane extraction for the simultaneous extraction of acidic and basic drugs. <i>Analytica Chimica Acta</i> , 2021 , 1160, 338448	6.6	7
30	NIR reflectance determination of warfarin in a solid preparation commercialized at different API mass proportions. <i>Analytical Methods</i> , 2013 , 5, 3858	3.2	6
29	Analytical control of organic additives in electrolytic baths by UV spectroscopy in combination with multivariate analysis. <i>Fresenius Journal of Analytical Chemistry</i> , 1999 , 363, 364-368		6
28	Simultaneous Determination of Rubber Additives by FT-IR Spectrophotometry with Multivariate Calibration. <i>Applied Spectroscopy</i> , 1995 , 49, 747-753	3.1	6
27	Application of multicomponent spectrophotometry to analytical control of electroplating solutions. <i>Fresenius Journal of Analytical Chemistry</i> , 1991 , 340, 410-414		6
26	Analysis of Multicomponent Spectra by the Simplex Method. <i>Analytical Letters</i> , 1992 , 25, 543-560	2.2	6
25	Diode array detectors in flow injection analysis. Simultaneous determination of rare earth metals with Arsenazo III. <i>Fresenius Journal of Analytical Chemistry</i> , 1990 , 338, 831-835		6
24	Recent advances in sample pre-treatment for emerging methods in proteomic analysis. <i>Talanta</i> , 2017 , 174, 738-751	6.2	5
23	Calibration in near Infrared Diffuse Reflectance Spectroscopy. A Comparative Study of Various Methods. <i>Journal of Near Infrared Spectroscopy</i> , 1997 , 5, 67-75	1.5	5
22	Determination of accelerators and antioxidants in vulcanized rubber by fourier transform infrared spectrophotometry. <i>Analytica Chimica Acta</i> , 1997 , 353, 351-358	6.6	5
21	Analytical control of a pharmaceutical formulation of sodium picosulfate by capillary zone electrophoresis. <i>Biomedical Applications</i> , 2001 , 751, 29-36		5
20	Modelling of an environmental parameter by use of the alternating conditional expectation method. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1999 , 46, 31-39	3.8	5
19	Effect of Day-To-Day Noise on UV-Visible Spectrophotometric Control Analyses of Mixtures by Principal Component Regression. <i>Applied Spectroscopy</i> , 1996 , 50, 576-582	3.1	5

18	Application of the Davidon-Fletcher-Powell algorithm to the resolution of multicomponent mixtures using UV-vis spectrophotometry. <i>Analytica Chimica Acta</i> , 1996 , 327, 145-152	6.6	5
17	Application of representative layer theory to near-infrared reflectance spectra of powdered samples. <i>Applied Spectroscopy</i> , 2008 , 62, 1363-9	3.1	4
16	Kinetic-spectrophotometric determination of theophylline, dyphylline, and proxyphylline by use of partial least-squares regression. <i>Analytical and Bioanalytical Chemistry</i> , 2002 , 374, 33-8	4.4	4
15	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. <i>Analytical Letters</i> , 1999 , 32, 1169-1181	2.2	4
14	Fia Fluorimetric Determination of Calcium Pantothenate. Validation and Quantitation in Multivitamin Preparations. <i>Analytical Letters</i> , 1995 , 28, 821-833	2.2	3
13	Simultaneous determination of metal ions. Catalytic oxidation of cobalt by metal ions when extracted with quinolin-8-ol. <i>Analytica Chimica Acta</i> , 1990 , 230, 221-224	6.6	3
12	8-Aminoquinoline and 5,7-Dihalogen Derivatives. Determination of Protonation Constants and Some Gravimetric Applications. <i>Mikrochimica Acta</i> , 1983 , 81, 95-104	5.8	3
11	Finding a reliable limit of detection in the NIR determination of residual moisture in a freeze-dried drug product. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020 , 183, 113163	3.5	3
10	Resolution of isomers of sorbitolparaben esters by chromatographic and electrophoretic techniques. <i>Biomedical Applications</i> , 2001 , 752, 99-105		2
9	Multi-component kinetic-spectrophotometric analysis. Selection of wavelength and time ranges. <i>Analyst, The</i> , 2001 , 126, 1135-41	5	2
8	Spectrofluorimetric Identification of Polycyclic Aromatic Hydrocarbons at PPB Level. <i>Analytical Letters</i> , 1996 , 29, 1603-1617	2.2	2
7	Determination of carbonylhydrazide at trace and subtrace levels. <i>Talanta</i> , 1992 , 39, 1313-6	6.2	2
6	Simultaneous spectrophotometric determination of Zinc(II) and Nickel(II) with 1-(2-pyridylazo)-2-naphthol. <i>Mikrochimica Acta</i> , 1992 , 108, 53-59	5.8	2
5	Aza-Michael reaction with enone-modified vegetable oils: evidence of the keto-enolic equilibrium by NIR chemical imaging and evolving factor analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 399, 1975-82	4.4	1
4	Simultaneous multiwavelength spectrophotometric determination of 1:2 metal-complex dyes for leather. <i>Coloration Technology</i> , 2008 , 111, 199-202		1
3	Use of indirect multiple linear regression for multicomponent dye analysis in a leather tanning bath. <i>Coloration Technology</i> , 2008 , 113, 311-316		1
2	Robust freeze-drying process re-design of a legacy product based on risk analysis and design of experiments. <i>Drug Development and Industrial Pharmacy</i> , 2020 , 46, 2022-2031	3.6	0
1	4-(8-Quinolylazo)-1-Aminonaphthalene as a Metallochromic Indicator for Cu(II), Ni (II) and Hg(II). <i>Analytical Letters</i> , 1984 , 17, 1009-1023	2.2	

