

# Jordi Coello

## List of Publications by Year in descending order

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107  
papers

3,112  
citations

136885

32  
h-index

182361

51  
g-index

107  
all docs

107  
docs citations

107  
times ranked

2444  
citing authors

#	ARTICLE	IF	CITATIONS
1	Near-infrared spectroscopy in the pharmaceutical industry. <i>Analyst, The</i> , 1998, 123, 135R-150R.	1.7	212
2	NIR calibration in non-linear systems: different PLS approaches and artificial neural networks. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2000, 50, 75-82.	1.8	148
3	Study of pharmaceutical samples by NIR chemical-image and multivariate analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2008, 27, 696-713.	5.8	139
4	Solving GC-MS problems with PARAFAC2. <i>TrAC - Trends in Analytical Chemistry</i> , 2008, 27, 714-725.	5.8	134
5	Simultaneous kinetic-spectrophotometric determination of levodopa and benserazide by bi- and three-way partial least squares calibration. <i>Talanta</i> , 2000, 53, 627-637.	2.9	95
6	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.	0.8	74
7	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.	1.2	73
8	Artificial Neural Networks for Multicomponent Kinetic Determinations. <i>Analytical Chemistry</i> , 1995, 67, 4477-4483.	3.2	71
9	Calibration in non-linear near infrared reflectance spectroscopy: a comparison of several methods. <i>Analytica Chimica Acta</i> , 1999, 384, 207-214.	2.6	70
10	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.	2.6	62
11	Determination of olive oil free fatty acid by fourier transform infrared spectroscopy. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 1999, 76, 611-616.	0.8	62
12	Separation of profen enantiomers by capillary electrophoresis using cyclodextrins as chiral selectors. <i>Journal of Chromatography A</i> , 1998, 793, 165-175.	1.8	61
13	Analytical control of pharmaceutical production steps by near infrared reflectance spectroscopy. <i>Analytica Chimica Acta</i> , 1999, 392, 237-246.	2.6	61
14	Enhanced chromatographic fingerprinting of herb materials by multi-wavelength selection and chemometrics. <i>Analytica Chimica Acta</i> , 2012, 710, 40-49.	2.6	59
15	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.	2.6	55
16	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.	1.8	50
17	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.	2.6	49
18	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.	2.6	49

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19	Orthogonal signal correction in near infrared calibration. <i>Analytica Chimica Acta</i> , 2001, 434, 125-132.	2.6	44
20	Kinetic spectrophotometric determination of Ga(III)-Al(III) mixtures by stopped-flow injection analysis using principal component regression. <i>Talanta</i> , 1993, 40, 261-267.	2.9	43
21	Principal Component Regression for Mixture Resolution in Control Analysis by UV-Visible Spectrophotometry. <i>Applied Spectroscopy</i> , 1994, 48, 37-43.	1.2	43
22	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.	1.7	41
23	The influence of particle size on the intensity and reproducibility of Raman spectra of compacted samples. <i>Vibrational Spectroscopy</i> , 2019, 100, 48-56.	1.2	40
24	Control analysis of a pharmaceutical preparation by near-infrared reflectance spectroscopy. <i>Analytica Chimica Acta</i> , 1994, 298, 183-191.	2.6	38
25	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, 551-556.	1.6	38
26	Determination of polymorphic purity by near infrared spectrometry. <i>Analytica Chimica Acta</i> , 2000, 407, 247-254.	2.6	38
27	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, 1129-1134.	1.7	38
28	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.	3.2	36
29	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.	1.7	36
30	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, 1380-1388.	1.9	36
31	Determination of Finishing Oils in Acrylic Fibres by Near-infrared Reflectance Spectrometry. <i>Analyst, The</i> , 1997, 122, 777-781.	1.7	33
32	Near-infrared analytical control of pharmaceuticals. A single calibration model from mixed phase to coated tablets. <i>Analyst, The</i> , 1998, 123, 2307-2312.	1.7	33
33	Spectrophotometric determination of pharmaceutical dosages by partial least-squares calibration. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1994, 12, 509-514.	1.4	31
34	Partial least-squares regression for multicomponent kinetic determinations in linear and non-linear systems. <i>Analytica Chimica Acta</i> , 1995, 303, 309-320.	2.6	31
35	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.	2.9	30
36	Spectrophotometric Analysis of a Pharmaceutical Preparation by Principal Component Regression. <i>Journal of Pharmaceutical Sciences</i> , 1993, 82, 834-837.	1.6	29

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37	Kinetic spectrophotometric determination of hydrocortisone acetate in a pharmaceutical preparation by use of partial least-squares regression. <i>Analyst</i> , The, 1999, 124, 911-915.	1.7	29
38	Evaluation of classical and three-way multivariate calibration procedures in kinetic-spectrophotometric analysis. <i>Analytica Chimica Acta</i> , 2000, 424, 115-126.	2.6	29
39	Determination of ascorbic acid in pharmaceutical preparations by near infrared reflectance spectroscopy. <i>Talanta</i> , 1993, 40, 1671-1676.	2.9	28
40	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.	1.5	28
41	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.	2.6	28
42	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, 1281-1288.	1.9	28
43	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.	2.6	28
44	Chiral and nonchiral determination of ketoprofen in pharmaceuticals by capillary zone electrophoresis. <i>Journal of Chromatography A</i> , 1998, 799, 301-307.	1.8	27
45	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.	2.6	26
46	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, 255-262.	1.4	26
47	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, 534-539.	1.5	26
48	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.	1.8	26
49	Determination of water in lubricating oils by mid- and near-infrared spectroscopy. <i>Mikrochimica Acta</i> , 1998, 128, 235-239.	2.5	25
50	Quality control decisions with near infrared data. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2000, 53, 69-80.	1.8	25
51	Circular dichroism spectra of cyclodextrins-ketoprofen inclusion complexes. <i>Analytica Chimica Acta</i> , 2000, 407, 233-245.	2.6	24
52	Application of partial least-squares regression to the resolution of highly correlated spectra. Simultaneous spectrofluorimetric determination of Al, Ga and In. <i>Talanta</i> , 1996, 43, 1489-1496.	2.9	23
53	Wavelength Calibration Transfer between Diode Array UV-Visible Spectrophotometers. <i>Applied Spectroscopy</i> , 1995, 49, 593-597.	1.2	21
54	Use of near-infrared spectrometry in control analyses of acrylic fibre manufacturing processes. <i>Analytica Chimica Acta</i> , 1999, 383, 291-298.	2.6	21

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55	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, 1089-1092.	1.7	21
56	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.	1.1	21
57	Implementation of enhanced correlation maps in near infrared chemical images: Application in pharmaceutical research. <i>Talanta</i> , 2009, 79, 657-664.	2.9	21
58	A comprehensive study of a new versatile microchip device based liquid phase microextraction for stopped-flow and double-flow conditions. <i>Journal of Chromatography A</i> , 2018, 1556, 29-36.	1.8	21
59	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.	2.6	20
60	Simultaneous determination of metal ions. <i>Analytica Chimica Acta</i> , 1989, 226, 271-279.	2.6	19
61	Analysis of cotton-polyester yarns by near-infrared reflectance spectroscopy. <i>Analyst, The</i> , 1994, 119, 1779-1785.	1.7	19
62	On-line monitoring of starch enzymatic hydrolysis by near- infrared spectroscopy. <i>Analyst, The</i> , 2000, 125, 749-752.	1.7	17
63	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.	1.8	16
64	Direct determination of leather dyes by visible reflectance spectroscopy using partial least-squares regression. <i>Analytica Chimica Acta</i> , 2000, 419, 209-214.	2.6	15
65	Simultaneous determination of two components by spectrofluorimetric techniques. <i>Analytica Chimica Acta</i> , 1990, 233, 159-163.	2.6	14
66	Partial least-squares regression for the quantitation of pharmaceutical dosages in control analyses. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1996, 15, 329-338.	1.4	14
67	Simultaneous Spectrophotometric Determination of Levodopa and Benserazide in a Pharmaceutical. <i>Analytical Letters</i> , 2000, 33, 2701-2718.	1.0	14
68	Continuous flow extraction of indium with bis(2-ethylhexyl)phosphoric acid in 4-methylpentane-2-one coupled on-line with flame atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 1987, 201, 325-329.	2.6	13
69	Simultaneous Determination of Rubber Additives by FT-IR Spectrophotometry with Multivariate Calibration. <i>Applied Spectroscopy</i> , 1995, 49, 747-753.	1.2	11
70	Use of circular dichroism and artificial neural networks for the kinetic-spectrophotometric resolution of enantiomers. <i>Analytica Chimica Acta</i> , 2001, 431, 115-123.	2.6	11
71	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.	1.4	11
72	Precision of a diode-array spectrophotometer. <i>Analytica Chimica Acta</i> , 1990, 234, 395-401.	2.6	10

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73	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.	1.4	9
74	Analysis of Multicomponent Spectra by the Simplex Method. <i>Analytical Letters</i> , 1992, 25, 543-560.	1.0	8
75	Simultaneous spectrophotometric determination of fat-soluble vitamins in multivitamin pharmaceutical preparations. <i>Fresenius' Journal of Analytical Chemistry</i> , 1995, 351, 315-319.	1.5	8
76	Optimization of the xylan degradation activity of monolithic enzymatic membranes as a function of their composition using design of experiments. <i>Bioprocess and Biosystems Engineering</i> , 2006, 29, 261-268.	1.7	8
77	Expeditious identification and semi-quantification of <i>Panax ginseng</i> using near infrared spectral fingerprints and multivariate analysis. <i>Analytical Methods</i> , 2013, 5, 857.	1.3	8
78	Doehlert experimental design as a tool to study liquid-liquid systems for the recovery of Uranium (VI) traces. <i>Separation and Purification Technology</i> , 2013, 118, 399-405.	3.9	8
79	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.	1.4	8
80	On the extraction with long-chain amines. Extraction of Cu(II) from chloride media. <i>Polyhedron</i> , 1986, 5, 1845-1851.	1.0	7
81	Determination of accelerators and antioxidants in vulcanized rubber by fourier transform infrared spectrophotometry. <i>Analytica Chimica Acta</i> , 1997, 353, 351-358.	2.6	7
82	Analytical control of a pharmaceutical formulation of sodium picosulfate by capillary zone electrophoresis. <i>Biomedical Applications</i> , 2001, 751, 29-36.	1.7	7
83	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.	1.5	6
84	Application of multicomponent spectrophotometry to analytical control of electroplating solutions. <i>Fresenius' Journal of Analytical Chemistry</i> , 1991, 340, 410-414.	1.5	6
85	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.	1.5	6
86	Kinetic-spectrophotometric determination of theophylline, dyphylline, and proxyphylline by use of partial least-squares regression. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 374, 33-38.	1.9	6
87	NIR reflectance determination of warfarin in a solid preparation commercialized at different API mass proportions. <i>Analytical Methods</i> , 2013, 5, 3858.	1.3	6
88	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.	2.6	5
89	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.	1.2	5
90	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.	2.6	5

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91	Modelling of an environmental parameter by use of the alternating conditional expectation method. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1999, 46, 31-39.	1.8	5
92	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.	1.0	5
93	Experimental design for optimization of peroxide formulation stability and cost. <i>Journal of Surfactants and Detergents</i> , 2006, 9, 341-347.	1.0	5
94	Near infrared spectroscopy: A novel technique for classifying and characterizing polysulfone membranes. <i>Journal of Membrane Science</i> , 2007, 300, 122-130.	4.1	5
95	Application of Representative Layer Theory to Near-Infrared Reflectance Spectra of Powdered Samples. <i>Applied Spectroscopy</i> , 2008, 62, 1363-1369.	1.2	5
96	Fia Fluorimetric Determination of Calcium Pantothenate. Validation and Quantitation in Multivitamin Preparations. <i>Analytical Letters</i> , 1995, 28, 821-833.	1.0	4
97	Stability constants of palladium(II) complexes with thio- and dithiodiacids. <i>Polyhedron</i> , 1986, 5, 1777-1784.	1.0	3
98	Simultaneous spectrophotometric determination of Zinc(II) and Nickel(II) with 1-(2-pyridylazo)-2-naphthol. <i>Mikrochimica Acta</i> , 1992, 108, 53-59.	2.5	3
99	Spectrofluorimetric Identification of Polycyclic Aromatic Hydrocarbons at PPB Level. <i>Analytical Letters</i> , 1996, 29, 1603-1617.	1.0	3
100	Resolution of isomers of sorbitolparaben esters by chromatographic and electrophoretic techniques. <i>Biomedical Applications</i> , 2001, 752, 99-105.	1.7	3
101	Correlating Bacharach Opacity in Fuel Oil Exhaust. Prediction of the Operating Parameters That Reduce It. <i>Oil and Gas Science and Technology</i> , 2000, 55, 533-541.	1.4	3
102	Determination of carbohydrazide at trace and subtrace levels. <i>Talanta</i> , 1992, 39, 1313-1316.	2.9	2
103	Multi-component kinetic "spectrophotometric analysis. Selection of wavelength and time ranges. <i>Analyst</i> , The, 2001, 126, 1135-1141.	1.7	2
104	EXTRACTION KINETICS OF ZINC BY TRILAURYLAMMONIUM CHLORIDE AT DIFFERENT CHLORIDE CONCENTRATIONS. <i>Solvent Extraction and Ion Exchange</i> , 1988, 6, 39-60.	0.8	1
105	Use of indirect multiple linear regression for multicomponent dye analysis in a leather tanning bath. <i>Coloration Technology</i> , 1997, 113, 311-316.	0.1	1
106	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.	0.9	1
107	Optimization of monolithic enzymatic membranes activity as a function of their composition using design of experiments (DOE). <i>Desalination</i> , 2006, 199, 236-238.	4.0	0