Isabel Duran

List of Publications by Year
in descending order

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98 papers	2,640 citations	159585 30 h-index	223800 46 g-index
98 all docs	98 docs citations	98 times ranked	2214 citing authors

#	Article	IF	Citations
1	Front-face fluorescence spectroscopy: A new tool for control in the wine industry. Journal of Food Composition and Analysis, 2011, 24, 257-264.	3.9	123
2	Usefulness of Fluorescence Excitationâ^'Emission Matrices in Combination with PARAFAC, as Fingerprints of Red Wines. Journal of Agricultural and Food Chemistry, 2009, 57, 1711-1720.	5.2	115
3	Second-Order Advantage Achieved with Four-Way Fluorescence Excitationâ^'Emissionâ^'Kinetic Data Processed by Parallel Factor Analysis and Trilinear Least-Squares. Determination of Methotrexate and Leucovorin in Human Urine. Analytical Chemistry, 2004, 76, 5657-5666.	6.5	105
4	Characterization of virgin olive oils according to its triglycerides and sterols composition by chemometric methods. Food Control, 2005, 16, 339-347.	5.5	89
5	Trilinear least-squares and unfolded-PLS coupled to residual trilinearization: New chemometric tools for the analysis of four-way instrumental data. Chemometrics and Intelligent Laboratory Systems, 2006, 80, 77-86.	3.5	89
6	Multicomponent determination of flavour enhancers in food preparations by partial least squares and principal component regression modelling of spectrophotometric data. Analyst, The, 1993, 118, 807-813.	3.5	72
7	Detection and quantification of extra virgin olive oil adulteration by means of autofluorescence excitation-emission profiles combined with multi-way classification. Talanta, 2018, 178, 751-762.	5.5	67
8	Cyclodextrin-induced fluid solution room-temperature phosphorescence from acenaphthene in the presence of 2-bromoethanol. Analytica Chimica Acta, 1991, 255, 351-357.	5.4	63
9	Determination of methotrexate, several pteridines, and creatinine in human urine, previous oxidation with potassium permanganate, using HPLC with photometric and fluorimetric serial detection. Analytical Biochemistry, 2005, 346, 201-209.	2.4	60
10	Multiway Partial Least-Squares Coupled to Residual Trilinearization:â€‰ A Genuine Multidimensional Tool for the Study of Third-Order Data. Simultaneous Analysis of Procaine and Its Metabolite p-Aminobenzoic Acid in Equine Serum. Analytical Chemistry, 2007, 79, 6949-6958.	6.5	59
11	Simultaneous Fluorometric Determination of Chlorophyllsaandband Pheophytinsaandbin Olive Oil by Partial Least-Squares Calibration. Journal of Agricultural and Food Chemistry, 2003, 51, 6934-6940.	5.2	55
12	Spectrofluorimetric determination of nalidixic acid based on hostâ€“guest complexation with Î³-cyclodextrin. Analyst, The, 1994, 119, 1215-1219.	3.5	53
13	Simultaneous determination of salicyclic and salicyluric acids in urine by first-derivative synchronous fluorescence spectroscopy. Analytical Chemistry, 1988, 60, 2493-2496.	6.5	51
14	Determination of salicylic acid and its metabolites in urine by derivative synchronous spectrofluorimetry. Analyst, The, 1990, 115, 1007-1011.	3.5	50
15	High-Performance Liquid Chromatographicâ€“Fluorometric Determination of Glyoxal, Methylglyoxal, and Diacetyl in Urine by Prederivatization to Pteridinic Rings. Analytical Biochemistry, 1998, 255, 263-273.	2.4	50
16	Voltammetric behavior and determination of tocopherols with partial least squares calibration: analysis in vegetable oil samples. Analytica Chimica Acta, 2004, 511, 231-238.	5.4	49
17	Front-face fluorescence spectroscopy combined with second-order multivariate algorithms for the quantification of polyphenols in red wine samples. Food Chemistry, 2017, 220, 168-176.	8.2	49
18	Determination of resveratrol in wine by photochemically induced second-derivative fluorescence coupled with liquidâ€“liquid extraction. Analytical and Bioanalytical Chemistry, 2007, 387, 1999-2007.	3.7	43

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19	Four-way multivariate calibration using ultra-fast high-performance liquid chromatography with fluorescence excitationâ€“emission detection. Application to the direct analysis of chlorophylls a and b and pheophytins a and b in olive oils. Chemometrics and Intelligent Laboratory Systems, 2013, 125, 121-131.	3.5	43
20	Rapid and sensitive on-line solid phase extraction-ultra high performance liquid chromatographyâ€“electrospray-tandem mass spectrometry analysis of pesticides in surface waters. Journal of Chromatography A, 2013, 1305, 193-202.	3.7	42
21	Fluorescence properties of flavonoid compounds. Quantification in paprika samples using spectrofluorimetry coupled to second order chemometric tools. Food Chemistry, 2016, 196, 1058-1065.	8.2	42
22	High-performance liquid chromatographic determination of glyoxal and methylglyoxal in urine by prederivatization to lumazinic rings using in serial fast scan fluorimetric and diode array detectors. Analytical Biochemistry, 2007, 371, 82-91.	2.4	40
23	Development of a method for the determination of advanced glycation end products precursors by liquid chromatography and its application in human urine samples. Journal of Separation Science, 2012, 35, 2575-2584.	2.5	36
24	Analysis of Mixtures of Doxycycline and Oxytetracycline in Pharmaceutical Preparations by First Derivative Fluorimetry. Analytical Letters, 1990, 23, 863-876.	1.8	34
25	Optimization and validation of a rapid liquid chromatography method for determination of the main polyphenolic compounds in table olives and in olive paste. Food Chemistry, 2017, 233, 164-173.	8.2	34
26	Resolution of Ofloxacinâ€“Ciprofloxacin and Ofloxacinâ€“Norfloxacin Binary Mixtures by Flow-Injection Chemiluminescence in Combination with Partial Least Squares Multivariate Calibration. Journal of Fluorescence, 2007, 17, 481-491.	2.5	33
27	Flow-through photochemically induced fluorescence optosensor for the determination of linuron. Talanta, 2008, 77, 852-857.	5.5	33
28	Analysis of pteridines and creatinine in urine by HPLC with serial fluorimetric and photometric detectors. Chromatographia, 2001, 53, 510-514.	1.3	32
29	Simultaneous fluorimetric determination of glyphosate and its metabolite, aminomethylphosphonic acid, in water, previous derivatization with NBD-Cl and by partial least squares calibration (PLS). Talanta, 2005, 65, 7-14.	5.5	32
30	Determination of trans-resveratrol in red wine by adsorptive stripping square-wave voltammetry with medium exchange. Food Chemistry, 2010, 122, 1320-1326.	8.2	31
31	Four-way calibration applied to the simultaneous determination of folic acid and methotrexate in urine samples. Analytical and Bioanalytical Chemistry, 2006, 385, 1289-1297.	3.7	30
32	Evaluation of unfolded-partial least-squares coupled to residual trilinearization for four-way calibration of folic acid and methotrexate in human serum samples. Talanta, 2007, 72, 1261-1268.	5.5	30
33	On line photochemically induced excitationâ€“emission-kinetic four-way data. Analytica Chimica Acta, 2008, 622, 94-103.	5.4	30
34	Green analytical determination of emerging pollutants in environmental waters using excitationâ€“emission photoinduced fluorescence data and multivariate calibration. Talanta, 2015, 134, 215-223.	5.5	30
35	Resolution of ternary mixtures of salicylic, salicyluric and gentisic acids by partial least squares and principal component regression: Optimization of the scanning path in the excitation-emission matrices. Fresenius' Journal of Analytical Chemistry, 1995, 351, 571-576.	1.5	29
36	Selection of the wavelength range and spectrophotometric determination of leucovorin and methotrexate in human serum by a net analyte signal based method. Talanta, 2002, 58, 255-263.	5.5	29

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37	Synchronous fluorimetric determination of salicylic acid and diflunisal in human serum using partial least-squares calibration. Talanta, 1996, 43, 1349-1356.	5.5	28
38	Development of a non-aqueous capillary electrophoresis method with UVâ€“visible and fluorescence detection for phenolics compounds in olive oil. Analytical and Bioanalytical Chemistry, 2012, 403, 279-290.	3.7	28
39	Simultaneous fluorometric determination of nalidixic acid and 7-hydroxymethylnalidixic acid by partial least squares calibration. Talanta, 1998, 45, 899-907.	5.5	27
40	Kinetic fluorimetric determination of the antineoplastic methotrexate (MTX) in human serum. Journal of Pharmaceutical and Biomedical Analysis, 2002, 29, 851-858.	2.8	27
41	Spectrofluorimetric determination of irinotecan in the presence of oxidant agents and metal ions. Talanta, 2008, 74, 1484-1491.	5.5	25
42	Hostâ€”guest stabilized room temperature phosphorescence in Î²-cyclodextrin/ bromoalcohol solutions from 2-naphthyl-oxy-acetic acid and 1-naphthyl-acetic acid. Talanta, 1993, 40, 1657-1664.	5.5	24
43	Fluorimetric Determination of Sulfametoxazole in Pharmaceutical Preparations in Combination with Trimethoprim by Inclusion in Î²-Cyclodextrin/Urea. Analytical Letters, 1994, 27, 1893-1906.	1.8	24
44	Simultaneous kinetic spectrophotometric determination of 2-furfuraldehyde and 5-hydroxymethyl-2-furfuraldehyde by application of a modified Winkler's method and partial least squares calibration. Analyst, The, 1995, 120, 2567-2571.	3.5	23
45	Simultaneous determination of pteridines in multicomponent mixtures using derivative spectrophotometry and partial least-squares calibration. Journal of Pharmaceutical and Biomedical Analysis, 1998, 17, 1325-1334.	2.8	22
46	Photoinduced fluorimetric determination of folic acid and 5-methyltetrahydrofolic acid in serum using the kinetic evolution of the emission spectra accomplished with multivariate second-order calibration methods. Analytical and Bioanalytical Chemistry, 2008, 391, 827-835.	3.7	22
47	Determination of triamterene and leucovorin in biological fluids by UV derivative-spectrophotometry and partial least-squares (PLS-1) calibration. Journal of Pharmaceutical and Biomedical Analysis, 2002, 27, 81-90.	2.8	21
48	Complexation of antibacterial quinolonic acid and cinolonic derivatives with Zn(ii) and Al(iii): application to their determination in human urine. Analyst, The, 2000, 125, 1471-1476.	3.5	19
49	Determination of the chemotherapeutic quinolonic and cinolonic derivatives in urine by high-performance liquid chromatography with ultraviolet and fluorescence detection in series. Journal of Chromatography A, 1997, 787, 119-127.	3.7	18
50	A simple HPLC-ESI-MS method for the direct determination of ten pteridinic biomarkers in human urine. Talanta, 2012, 101, 465-472.	5.5	18
51	Comparison of Different Fluorimetric Signals for the Simultaneous Multivariate Determination of Tocopherols in Vegetable Oils. Applied Spectroscopy, 2006, 60, 194-202.	2.2	17
52	High-performance liquid chromatography with fast-scanning fluorescence detection and post-column on-line photoderivatization for the analysis of folic acid and its metabolites in vegetables. Microchemical Journal, 2017, 133, 333-345.	4.5	17
53	Control of olive cultivar irrigation by front-face fluorescence excitation-emission matrices in combination with PARAFAC. Journal of Food Composition and Analysis, 2018, 69, 189-196.	3.9	17
54	Spectrofluorimetric Study of the Inclusion Complex of 7-Hydroxymethylnalidixic Acid with Î³-Cyclodextrin in Aqueous Solution. Applied Spectroscopy, 1997, 51, 684-688.	2.2	16

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55	Comparison of different methods for the determination of several quinolonic and cinolonic antibiotics in trout muscle tissue by HPLC with fluorescence detection. Chromatographia, 2000, 51, 163-166.	1.3	16
56	Post-column on-line photochemical derivatization for the direct isocratic-LC-FLD analysis of resveratrol and piceid isomers in wine. Food Chemistry, 2008, 109, 825-833.	8.2	16
57	Comparison of UV derivative-spectrophotometry and partial least-squares (PLS-1) calibration for determination of methotrexate and leucovorin in biological fluids. Analytical and Bioanalytical Chemistry, 2002, 373, 251-258.	3.7	15
58	Polarography and artificial neural network for the simultaneous determination of nalidixic acid and its main metabolite (7-hydroxymethylnalidixic acid). Talanta, 2004, 62, 357-365.	5.5	15
59	Isocratic chromatography of resveratrol and piceid after previous generation of fluorescent photoproducts: Wine analysis without sample preparation. Journal of Separation Science, 2007, 30, 3110-3119.	2.5	15
60	Sensitized synchronous fluorimetric determination of trans-resveratrol and trans-piceid in red wine based on their immobilization on nylon membranes. Talanta, 2010, 82, 1733-1741.	5.5	15
61	Complexation study of cinalukast and montelukast with cyclodextrines. Journal of Pharmaceutical and Biomedical Analysis, 2007, 43, 1025-1032.	2.8	14
62	Influence of the presence of natural monosaccharides in the quantification of Î±-dicarbonyl compounds in high content sugar samples. A comparative study by ultra-high performance liquid chromatographyâ€“single quadrupole mass spectrometry using different derivatization reactions. Journal of Chromatography A, 2015, 1422, 117-127.	3.7	14
63	Simultaneous fluorimetric determination of acetylsalicylic acid metabolites in urine by partial least squares multivariate calibration. Fresenius' Journal of Analytical Chemistry, 1995, 353, 211-214.	1.5	13
64	Spectrofluorimetric Determination of SN-38, a Promising New Anti-Tumor Agent, in the Presence and Absence of Organized Media. Applied Spectroscopy, 2011, 65, 298-306.	2.2	13
65	HPLC determination of serum pteridine pattern as biomarkers. Talanta, 2014, 128, 319-326.	5.5	13
66	Front-face fluorescence excitation-emission matrices in combination with three-way chemometrics for the discrimination and prediction of phenolic response to vineyard agronomic practices. Food Chemistry, 2019, 270, 162-172.	8.2	13
67	Front-Face Fluorescence Combined with Second-Order Multiway Classification, Based on Polyphenol and Chlorophyll Compounds, for Virgin Olive Oil Monitoring Under Different Photo- and Thermal-Oxidation Procedures. Food Analytical Methods, 2019, 12, 1399-1411.	2.6	13
68	Determination of anticarcinogenic and rescue therapy drugs in urine by photoinduced spectrofluorimetry using multivariate calibration: comparison of several second-order methods. Analytical and Bioanalytical Chemistry, 2008, 391, 1119-1127.	3.7	12
69	Evaluation of Liquid Chromatographic Behavior of Lumazinic Derivatives, from Î±-Dicarbonyl Compounds, in Different C18 Columns: Application to Wine Samples Using a Fused-Core Column and Fluorescence Detection. Journal of Agricultural and Food Chemistry, 2014, 62, 97-106.	5.2	12
70	Stopped flow kinetic-spectrophotometric determination of Diquat in waters. Water Research, 2002, 36, 783-787.	11.3	11
71	Determination of piceid by photochemically induced fluorescence and second-derivativeResponse surface methodology for the optimization of a liquidâ€“liquid extraction procedure for its analysis in wine samples. Talanta, 2008, 74, 675-682.	5.5	11
72	Capillary electrophoretic determination of triamterene, methotrexate, and creatinine in human urine. Journal of Separation Science, 2005, 28, 658-664.	2.5	10

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73	Voltammetric Study of the Hydrolysis Product of Bendiocarb at the Glassy Carbon Electrode. Mikrochimica Acta, 2001, 137, 135-140.	5.0	9
74	First-Order Multivariate Calibration Applied to the Simultaneous Fluorometric Determination of the Anticancer Agents CPT-11 and SN-38 in Serum and Urine Samples. Analytical Sciences, 2011, 27, 745-749.	1.6	9
75	Spectrofluorimetric determination of vanadium(V) in petroleum crudes and basic slag with Nuclear Fast Red. Analyst, The, 1988, 113, 987-990.	3.5	8
76	Kinetic behaviour of the malonaldehyde-thiobarbituric acid reaction. kinetic-fluorimetric determination of malonaldehyde in human serum. Analytica Chimica Acta, 1996, 320, 125-132.	5.4	8
77	Kinetic fluorimetric study of the oxidation reaction of folinic acid (leucovorin) with potassium permanganate. Determination in human urine. Talanta, 2001, 55, 623-630.	5.5	8
78	Combination of fluorescence excitation emission matrices in polar and non-polar solvents to obtain three- and four- way arrays for classification of Tempranillo grapes according to maturation stage and hydric status. Talanta, 2019, 199, 652-661.	5.5	8
79	Phenylalanine Photoinduced Fluorescence and Characterization of the Photoproducts by LC-MS. Journal of Fluorescence, 2019, 29, 1445-1455.	2.5	8
80	Simultaneous Fluorimetric Determination of Pteridin Derivatives: Comparison between Synchronous, Partial Least-Squares, and Hybrid Linear Analysis Methods. Applied Spectroscopy, 2001, 55, 701-707.	2.2	7
81	Stopped-flow and kinetic-fluorimetric determination of quinalphos in water samples. Talanta, 2006, 69, 397-402.	5.5	7
82	Comparison of the predictive ability of several second-order multivariate methods in the simultaneous determination of two therapeutic drugs in human urine. Talanta, 2012, 88, 609-616.	5.5	7
83	Phenanthrene metabolites determination in human breast and cow milk by combining elution time-emission fluorescence data with multiway calibration. Talanta, 2018, 188, 299-307.	5.5	7
84	Non-destructive Fluorescence Spectroscopy as a Tool for Discriminating Between Olive Oils According to Agronomic Practices and for Assessing Quality Parameters. Food Analytical Methods, 2022, 15, 253-265.	2.6	7
85	Kinetic Determination of 2-Furfuraldehyde Based in a Modified Winkler's Method. Journal of Agricultural and Food Chemistry, 1996, 44, 2962-2965.	5.2	6
86	Complexation Study and Spectrofluorimetric Determination of Pipemidic Acid with Î³-Cyclodextrin. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2005, 51, 137-142.	1.6	6
87	2â€²Pyrilideniminobenzohydroxamic Acid as Analytical Reagent for the Spectrophotometric Determination of Vanadium(V). Bulletin Des SociÃ©tÃ©s Chimiques Belges, 1985, 94, 101-109.	0.0	6
88	Development of an HPLC-MS method for the determination of natural pteridines in tomato samples. Analytical Methods, 2016, 8, 6404-6414.	2.7	6
89	Determination of piromidic acid residues in trout muscle tissue and in urine by liquid chromatography with post-column modification of pH and fluorimetric detection. Biomedical Applications, 1998, 718, 135-141.	1.7	5
90	Pteridine determination in human serum with special emphasis on HPLC methods with fluorimetric detection. Pteridines, 2017, 28, 67-81.	0.5	5

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91	Second-order calibration in combination with fluorescence fibre-optic data modelling as a novel approach for monitoring the maturation stage of plums. Chemometrics and Intelligent Laboratory Systems, 2020, 199, 103980.	3.5	5
92	Isophthaldihydroxamic acid as analytical reagent for the spectrophotometric determination of cobalt. Microchemical Journal, 1986, 33, 194-197.	4.5	4
93	Solid complexes from 2-benzylideniminobenzo-hydroxamic, 2-pyrilideniminobenzohydroxamic and 2-salicylideniminobenzohydroxamic acids with Fe(III) and Cu. Thermochimica Acta, 1989, 143, 85-91.	2.7	4
94	Simultaneous Determination of Flavor Enhancers Inosine 5Â´-Monophosphate and Guanosine 5Â´-Monophosphate in Food Preparations by Derivative Spectrophotometry. Journal of AOAC INTERNATIONAL, 1993, 76, 754-759.	1.5	4
95	Determination of chemotherapeutic drugs in human urine by capillary electrophoresis with UV and fluorimetric detection using solid-supported liquid-liquid extraction for sample clean-up. Journal of Separation Science, 2015, 38, 1990-1997.	2.5	4
96	HPLC-fast scanning fluorimetric detection determination of risk exposure to polycyclic aromatics hydrocarbons biomarkers in human urine. Bioanalysis, 2017, 9, 265-278.	1.5	3
97	Fluorescence Study of Four Olive Varieties Paste According to Sampling Dates and the Control in the Elaboration of Table Olives of â€œAscolana teneraâ€• Food Analytical Methods, 2021, 14, 307-318.	2.6	2
98	Simultaneous fluorimetric determination of acetylsalicylic acid metabolites in urine by partial least squares multivariate calibration. Analytical and Bioanalytical Chemistry, 1995, 353, 211-214.	3.7	1