

# Isabel Duran

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6536812/publications.pdf>

Version: 2024-02-01

98  
papers

2,640  
citations

159525

30  
h-index

223716

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. <i>Journal of Food Composition and Analysis</i> , 2011, 24, 257-264.	1.9	123
2	Usefulness of Fluorescence Excitation-Emission Matrices in Combination with PARAFAC, as Fingerprints of Red Wines. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 1711-1720.	2.4	115
3	Second-Order Advantage Achieved with Four-Way Fluorescence Excitation-Emission Kinetic Data Processed by Parallel Factor Analysis and Trilinear Least-Squares. Determination of Methotrexate and Leucovorin in Human Urine. <i>Analytical Chemistry</i> , 2004, 76, 5657-5666.	3.2	105
4	Characterization of virgin olive oils according to its triglycerides and sterols composition by chemometric methods. <i>Food Control</i> , 2005, 16, 339-347.	2.8	89
5	Trilinear least-squares and unfolded-PLS coupled to residual trilinearization: New chemometric tools for the analysis of four-way instrumental data. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2006, 80, 77-86.	1.8	89
6	Multicomponent determination of flavour enhancers in food preparations by partial least squares and principal component regression modelling of spectrophotometric data. <i>Analyst, The</i> , 1993, 118, 807-813.	1.7	72
7	Detection and quantification of extra virgin olive oil adulteration by means of autofluorescence excitation-emission profiles combined with multi-way classification. <i>Talanta</i> , 2018, 178, 751-762.	2.9	67
8	Cyclodextrin-induced fluid solution room-temperature phosphorescence from acenaphthene in the presence of 2-bromoethanol. <i>Analytica Chimica Acta</i> , 1991, 255, 351-357.	2.6	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. <i>Analytical Biochemistry</i> , 2005, 346, 201-209.	1.1	60
10	Multiway Partial Least-Squares Coupled to Residual Trilinearization: A Genuine Multidimensional Tool for the Study of Third-Order Data. Simultaneous Analysis of Procaine and Its Metabolite <i>p</i> -Aminobenzoic Acid in Equine Serum. <i>Analytical Chemistry</i> , 2007, 79, 6949-6958.	3.2	59
11	Simultaneous Fluorometric Determination of Chlorophylls and Pheophytins in Olive Oil by Partial Least-Squares Calibration. <i>Journal of Agricultural and Food Chemistry</i> , 2003, 51, 6934-6940.	2.4	55
12	Spectrofluorimetric determination of nalidixic acid based on host-guest complexation with $\beta$ -cyclodextrin. <i>Analyst, The</i> , 1994, 119, 1215-1219.	1.7	53
13	Simultaneous determination of salicylic and salicylic acids in urine by first-derivative synchronous fluorescence spectroscopy. <i>Analytical Chemistry</i> , 1988, 60, 2493-2496.	3.2	51
14	Determination of salicylic acid and its metabolites in urine by derivative synchronous spectrofluorimetry. <i>Analyst, The</i> , 1990, 115, 1007-1011.	1.7	50
15	High-Performance Liquid Chromatographic-Fluorometric Determination of Glyoxal, Methylglyoxal, and Diacetyl in Urine by Prederivatization to Pteridinic Rings. <i>Analytical Biochemistry</i> , 1998, 255, 263-273.	1.1	50
16	Voltammetric behavior and determination of tocopherols with partial least squares calibration: analysis in vegetable oil samples. <i>Analytica Chimica Acta</i> , 2004, 511, 231-238.	2.6	49
17	Front-face fluorescence spectroscopy combined with second-order multivariate algorithms for the quantification of polyphenols in red wine samples. <i>Food Chemistry</i> , 2017, 220, 168-176.	4.2	49
18	Determination of resveratrol in wine by photochemically induced second-derivative fluorescence coupled with liquid-liquid extraction. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1999-2007.	1.9	43

#	ARTICLE	IF	CITATIONS
19	Four-way multivariate calibration using ultra-fast high-performance liquid chromatography with fluorescence excitation–emission detection. Application to the direct analysis of chlorophylls a and b and pheophytins a and b in olive oils. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2013, 125, 121-131.	1.8	43
20	Rapid and sensitive on-line solid phase extraction-ultra high performance liquid chromatography–electrospray-tandem mass spectrometry analysis of pesticides in surface waters. <i>Journal of Chromatography A</i> , 2013, 1305, 193-202.	1.8	42
21	Fluorescence properties of flavonoid compounds. Quantification in paprika samples using spectrofluorimetry coupled to second order chemometric tools. <i>Food Chemistry</i> , 2016, 196, 1058-1065.	4.2	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. <i>Analytical Biochemistry</i> , 2007, 371, 82-91.	1.1	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. <i>Journal of Separation Science</i> , 2012, 35, 2575-2584.	1.3	36
24	Analysis of Mixtures of Doxycycline and Oxytetracycline in Pharmaceutical Preparations by First Derivative Fluorimetry. <i>Analytical Letters</i> , 1990, 23, 863-876.	1.0	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. <i>Food Chemistry</i> , 2017, 233, 164-173.	4.2	34
26	Resolution of Ofloxacin–Ciprofloxacin and Ofloxacin–Norfloxacin Binary Mixtures by Flow-Injection Chemiluminescence in Combination with Partial Least Squares Multivariate Calibration. <i>Journal of Fluorescence</i> , 2007, 17, 481-491.	1.3	33
27	Flow-through photochemically induced fluorescence optosensor for the determination of linuron. <i>Talanta</i> , 2008, 77, 852-857.	2.9	33
28	Analysis of pteridines and creatinine in urine by HPLC with serial fluorimetric and photometric detectors. <i>Chromatographia</i> , 2001, 53, 510-514.	0.7	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). <i>Talanta</i> , 2005, 65, 7-14.	2.9	32
30	Determination of trans-resveratrol in red wine by adsorptive stripping square-wave voltammetry with medium exchange. <i>Food Chemistry</i> , 2010, 122, 1320-1326.	4.2	31
31	Four-way calibration applied to the simultaneous determination of folic acid and methotrexate in urine samples. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 1289-1297.	1.9	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. <i>Talanta</i> , 2007, 72, 1261-1268.	2.9	30
33	On line photochemically induced excitation–emission-kinetic four-way data. <i>Analytica Chimica Acta</i> , 2008, 622, 94-103.	2.6	30
34	Green analytical determination of emerging pollutants in environmental waters using excitation–emission photoinduced fluorescence data and multivariate calibration. <i>Talanta</i> , 2015, 134, 215-223.	2.9	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. <i>Fresenius' Journal of Analytical Chemistry</i> , 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. <i>Talanta</i> , 2002, 58, 255-263.	2.9	29

#	ARTICLE	IF	CITATIONS
37	Synchronous fluorimetric determination of salicylic acid and diflunisal in human serum using partial least-squares calibration. <i>Talanta</i> , 1996, 43, 1349-1356.	2.9	28
38	Development of a non-aqueous capillary electrophoresis method with UV-visible and fluorescence detection for phenolics compounds in olive oil. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 279-290.	1.9	28
39	Simultaneous fluorometric determination of nalidixic acid and 7-hydroxymethylnalidixic acid by partial least squares calibration. <i>Talanta</i> , 1998, 45, 899-907.	2.9	27
40	Kinetic fluorimetric determination of the antineoplastic methotrexate (MTX) in human serum. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2002, 29, 851-858.	1.4	27
41	Spectrofluorimetric determination of irinotecan in the presence of oxidant agents and metal ions. <i>Talanta</i> , 2008, 74, 1484-1491.	2.9	25
42	Host-guest stabilized room temperature phosphorescence in $\beta$ -cyclodextrin/ bromoalcohol solutions from 2-naphthyl-oxy-acetic acid and 1-naphthyl-acetic acid. <i>Talanta</i> , 1993, 40, 1657-1664.	2.9	24
43	Fluorimetric Determination of Sulfametoxazole in Pharmaceutical Preparations in Combination with Trimethoprim by Inclusion in $\beta$ -Cyclodextrin/Urea. <i>Analytical Letters</i> , 1994, 27, 1893-1906.	1.0	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. <i>Analyst</i> , The, 1995, 120, 2567-2571.	1.7	23
45	Simultaneous determination of pteridines in multicomponent mixtures using derivative spectrophotometry and partial least-squares calibration. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1998, 17, 1325-1334.	1.4	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. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 827-835.	1.9	22
47	Determination of triamterene and leucovorin in biological fluids by UV derivative-spectrophotometry and partial least-squares (PLS-1) calibration. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2002, 27, 81-90.	1.4	21
48	Complexation of antibacterial quinolonic acid and cinolonic derivatives with Zn(ii) and Al(iii): application to their determination in human urine. <i>Analyst</i> , The, 2000, 125, 1471-1476.	1.7	19
49	Determination of the chemotherapeutic quinolonic and cinolonic derivatives in urine by high-performance liquid chromatography with ultraviolet and fluorescence detection in series. <i>Journal of Chromatography A</i> , 1997, 787, 119-127.	1.8	18
50	A simple HPLC-ESI-MS method for the direct determination of ten pteridinic biomarkers in human urine. <i>Talanta</i> , 2012, 101, 465-472.	2.9	18
51	Comparison of Different Fluorimetric Signals for the Simultaneous Multivariate Determination of Tocopherols in Vegetable Oils. <i>Applied Spectroscopy</i> , 2006, 60, 194-202.	1.2	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. <i>Microchemical Journal</i> , 2017, 133, 333-345.	2.3	17
53	Control of olive cultivar irrigation by front-face fluorescence excitation-emission matrices in combination with PARAFAC. <i>Journal of Food Composition and Analysis</i> , 2018, 69, 189-196.	1.9	17
54	Spectrofluorimetric Study of the Inclusion Complex of 7-Hydroxymethylnalidixic Acid with $\beta$ -Cyclodextrin in Aqueous Solution. <i>Applied Spectroscopy</i> , 1997, 51, 684-688.	1.2	16

#	ARTICLE	IF	CITATIONS
55	Comparison of different methods for the determination of several quinolonic and cinolonic antibiotics in trout muscle tissue by HPLC with fluorescence detection. <i>Chromatographia</i> , 2000, 51, 163-166.	0.7	16
56	Post-column on-line photochemical derivatization for the direct isocratic-LC-FLD analysis of resveratrol and piceid isomers in wine. <i>Food Chemistry</i> , 2008, 109, 825-833.	4.2	16
57	Comparison of UV derivative-spectrophotometry and partial least-squares (PLS-1) calibration for determination of methotrexate and leucovorin in biological fluids. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 373, 251-258.	1.9	15
58	Polarography and artificial neural network for the simultaneous determination of nalidixic acid and its main metabolite (7-hydroxymethylnalidixic acid). <i>Talanta</i> , 2004, 62, 357-365.	2.9	15
59	Isocratic chromatography of resveratrol and piceid after previous generation of fluorescent photoproducts: Wine analysis without sample preparation. <i>Journal of Separation Science</i> , 2007, 30, 3110-3119.	1.3	15
60	Sensitized synchronous fluorimetric determination of trans-resveratrol and trans-piceid in red wine based on their immobilization on nylon membranes. <i>Talanta</i> , 2010, 82, 1733-1741.	2.9	15
61	Complexation study of cinalukast and montelukast with cyclodextrines. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007, 43, 1025-1032.	1.4	14
62	Influence of the presence of natural monosaccharides in the quantification of $\hat{\pm}$ -dicarbonyl compounds in high content sugar samples. A comparative study by ultra-high performance liquid chromatography–single quadrupole mass spectrometry using different derivatization reactions. <i>Journal of Chromatography A</i> , 2015, 1422, 117-127.	1.8	14
63	Simultaneous fluorimetric determination of acetylsalicylic acid metabolites in urine by partial least squares multivariate calibration. <i>Fresenius' Journal of Analytical Chemistry</i> , 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. <i>Applied Spectroscopy</i> , 2011, 65, 298-306.	1.2	13
65	HPLC determination of serum pteridine pattern as biomarkers. <i>Talanta</i> , 2014, 128, 319-326.	2.9	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. <i>Food Chemistry</i> , 2019, 270, 162-172.	4.2	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. <i>Food Analytical Methods</i> , 2019, 12, 1399-1411.	1.3	13
68	Determination of anticarcinogenic and rescue therapy drugs in urine by photoinduced spectrofluorimetry using multivariate calibration: comparison of several second-order methods. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 1119-1127.	1.9	12
69	Evaluation of Liquid Chromatographic Behavior of Lumazinic Derivatives, from $\hat{\pm}$ -Dicarbonyl Compounds, in Different C18 Columns: Application to Wine Samples Using a Fused-Core Column and Fluorescence Detection. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 97-106.	2.4	12
70	Stopped flow kinetic-spectrophotometric determination of Diquat in waters. <i>Water Research</i> , 2002, 36, 783-787.	5.3	11
71	Determination of piceid by photochemically induced fluorescence and second-derivativeResponse surface methodology for the optimization of a liquid–liquid extraction procedure for its analysis in wine samples. <i>Talanta</i> , 2008, 74, 675-682.	2.9	11
72	Capillary electrophoretic determination of triamterene, methotrexate, and creatinine in human urine. <i>Journal of Separation Science</i> , 2005, 28, 658-664.	1.3	10

#	ARTICLE	IF	CITATIONS
73	Voltammetric Study of the Hydrolysis Product of Bendiocarb at the Glassy Carbon Electrode. <i>Mikrochimica Acta</i> , 2001, 137, 135-140.	2.5	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. <i>Analytical Sciences</i> , 2011, 27, 745-749.	0.8	9
75	Spectrofluorimetric determination of vanadium(V) in petroleum crudes and basic slag with Nuclear Fast Red. <i>Analyst</i> , 1988, 113, 987-990.	1.7	8
76	Kinetic behaviour of the malonaldehyde-thiobarbituric acid reaction. kinetic-fluorimetric determination of malonaldehyde in human serum. <i>Analytica Chimica Acta</i> , 1996, 320, 125-132.	2.6	8
77	Kinetic fluorimetric study of the oxidation reaction of folic acid (leucovorin) with potassium permanganate. Determination in human urine. <i>Talanta</i> , 2001, 55, 623-630.	2.9	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. <i>Talanta</i> , 2019, 199, 652-661.	2.9	8
79	Phenylalanine Photoinduced Fluorescence and Characterization of the Photoproducts by LC-MS. <i>Journal of Fluorescence</i> , 2019, 29, 1445-1455.	1.3	8
80	Simultaneous Fluorimetric Determination of Pteridin Derivatives: Comparison between Synchronous, Partial Least-Squares, and Hybrid Linear Analysis Methods. <i>Applied Spectroscopy</i> , 2001, 55, 701-707.	1.2	7
81	Stopped-flow and kinetic-fluorimetric determination of quinalphos in water samples. <i>Talanta</i> , 2006, 69, 397-402.	2.9	7
82	Comparison of the predictive ability of several second-order multivariate methods in the simultaneous determination of two therapeutic drugs in human urine. <i>Talanta</i> , 2012, 88, 609-616.	2.9	7
83	Phenanthrene metabolites determination in human breast and cow milk by combining elution time-emission fluorescence data with multiway calibration. <i>Talanta</i> , 2018, 188, 299-307.	2.9	7
84	Non-destructive Fluorescence Spectroscopy as a Tool for Discriminating Between Olive Oils According to Agronomic Practices and for Assessing Quality Parameters. <i>Food Analytical Methods</i> , 2022, 15, 253-265.	1.3	7
85	Kinetic Determination of 2-Furfuraldehyde Based in a Modified Winkler's Method. <i>Journal of Agricultural and Food Chemistry</i> , 1996, 44, 2962-2965.	2.4	6
86	Complexation Study and Spectrofluorimetric Determination of Pipemidic Acid with $\beta$ -Cyclodextrin. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2005, 51, 137-142.	1.6	6
87	2-Pyridylideniminobenzohydroxamic Acid as Analytical Reagent for the Spectrophotometric Determination of Vanadium(V). <i>Bulletin Des Sociétés Chimiques Belges</i> , 1985, 94, 101-109.	0.0	6
88	Development of an HPLC-MS method for the determination of natural pteridines in tomato samples. <i>Analytical Methods</i> , 2016, 8, 6404-6414.	1.3	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. <i>Biomedical Applications</i> , 1998, 718, 135-141.	1.7	5
90	Pteridine determination in human serum with special emphasis on HPLC methods with fluorimetric detection. <i>Pteridines</i> , 2017, 28, 67-81.	0.5	5

#	ARTICLE	IF	CITATIONS
91	Second-order calibration in combination with fluorescence fibre-optic data modelling as a novel approach for monitoring the maturation stage of plums. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020, 199, 103980.	1.8	5
92	Isophthaldihydroxamic acid as analytical reagent for the spectrophotometric determination of cobalt. <i>Microchemical Journal</i> , 1986, 33, 194-197.	2.3	4
93	Solid complexes from 2-benzylideniminobenzo-hydroxamic, 2-pyridylideniminobenzohydroxamic and 2-salicylideniminobenzohydroxamic acids with Fe(III) and Cu. <i>Thermochimica Acta</i> , 1989, 143, 85-91.	1.2	4
94	Simultaneous Determination of Flavor Enhancers Inosine 5'-Monophosphate and Guanosine 5'-Monophosphate in Food Preparations by Derivative Spectrophotometry. <i>Journal of AOAC INTERNATIONAL</i> , 1993, 76, 754-759.	0.7	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. <i>Journal of Separation Science</i> , 2015, 38, 1990-1997.	1.3	4
96	HPLC-fast scanning fluorimetric detection determination of risk exposure to polycyclic aromatics hydrocarbons biomarkers in human urine. <i>Bioanalysis</i> , 2017, 9, 265-278.	0.6	3
97	Fluorescence Study of Four Olive Varieties Paste According to Sampling Dates and the Control in the Elaboration of Table Olives of "Ascolana tenera". <i>Food Analytical Methods</i> , 2021, 14, 307-318.	1.3	2
98	Simultaneous fluorimetric determination of acetylsalicylic acid metabolites in urine by partial least squares multivariate calibration. <i>Analytical and Bioanalytical Chemistry</i> , 1995, 353, 211-214.	1.9	1