

# Luis Angel Fernández Cuadrado

## List of Publications by Year in descending order

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81  
papers

2,665  
citations

172457

29  
h-index

189892

50  
g-index

81  
all docs

81  
docs citations

81  
times ranked

2851  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stir-bar sorptive extraction: A view on method optimisation, novel applications, limitations and potential solutions. <i>Journal of Chromatography A</i> , 2010, 1217, 2642-2666.	3.7	347
2	On-line FT-Raman and dispersive Raman spectra database of artists's™ materials (e-VISART database). <i>Analytical and Bioanalytical Chemistry</i> , 2005, 382, 248-258.	3.7	185
3	Development of a stir bar sorptive extraction and thermal desorption's"gas chromatography's"mass spectrometry method for the simultaneous determination of several persistent organic pollutants in water samples. <i>Journal of Chromatography A</i> , 2007, 1174, 40-49.	3.7	136
4	Occurrence of emerging pollutants in estuaries of the Basque Country: Analysis of sources and distribution, and assessment of the environmental risk. <i>Water Research</i> , 2018, 147, 152-163.	11.3	118
5	Simultaneous microwave-assisted extraction of polycyclic aromatic hydrocarbons, polychlorinated biphenyls, phthalate esters and nonylphenols in sediments. <i>Journal of Chromatography A</i> , 2005, 1068, 229-236.	3.7	115
6	MultiSimplex optimisation of the solid-phase microextraction's"gas chromatographic's"mass spectrometric determination of polycyclic aromatic hydrocarbons, polychlorinated biphenyls and phthalates from water samples. <i>Journal of Chromatography A</i> , 2002, 978, 165-175.	3.7	93
7	Green Copper Pigments Biodegradation in Cultural Heritage: From Malachite to Moolooite, Thermodynamic Modeling, X-ray Fluorescence, and Raman Evidence. <i>Analytical Chemistry</i> , 2008, 80, 4103-4110.	6.5	83
8	Comparison of accelerated solvent extraction with microwave-assisted extraction and Soxhlet for the extraction of chlorinated biphenyls in soil samples. <i>TrAC - Trends in Analytical Chemistry</i> , 1998, 17, 642-647.	11.4	68
9	Optimisation of microwave-assisted extraction for the determination of nonylphenols and phthalate esters in sediment samples and comparison with pressurised solvent extraction. <i>Analytica Chimica Acta</i> , 2005, 534, 247-254.	5.4	67
10	Focused ultrasound solid's"liquid extraction for the determination of perfluorinated compounds in fish, vegetables and amended soil. <i>Journal of Chromatography A</i> , 2014, 1331, 27-37.	3.7	65
11	Simultaneous determination of perfluorinated compounds and their potential precursors in mussel tissue and fish muscle tissue and liver samples by liquid chromatography's"electrospray-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2015, 1387, 13-23.	3.7	63
12	Classification and identification of organic binding media in artworks by means of Fourier transform infrared spectroscopy and principal component analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 3601-3611.	3.7	62
13	Simultaneous speciation of methylmercury and butyltin species in environmental samples by headspace-stir bar sorptive extraction's"thermal desorption's"gas chromatography's"mass spectrometry. <i>Journal of Chromatography A</i> , 2008, 1185, 130-138.	3.7	60
14	Raman spectroscopy as a tool to diagnose the impacts of combustion and greenhouse acid gases on properties of Built Heritage. <i>Journal of Raman Spectroscopy</i> , 2008, 39, 1042-1049.	2.5	57
15	Simultaneous preconcentration of a wide variety of organic pollutants in water samples. <i>Journal of Chromatography A</i> , 2008, 1214, 1-10.	3.7	54
16	Uptake of 8:2 perfluoroalkyl phosphate diester and its degradation products by carrot and lettuce from compost-amended soil. <i>Chemosphere</i> , 2016, 152, 309-317.	8.2	54
17	Comparison of microwave-assisted extraction and Soxhlet extraction for phenols in soil samples using experimental designs. <i>Analyst, The</i> , 1998, 123, 1679-1684.	3.5	51
18	Simultaneous determination of a variety of endocrine disrupting compounds in carrot, lettuce and amended soil by means of focused ultrasonic solid's"liquid extraction and dispersive solid-phase extraction as simplified clean-up strategy. <i>Journal of Chromatography A</i> , 2015, 1389, 8-18.	3.7	50

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19	Optimization and comparison of MAE, ASE and Soxhlet extraction for the determination of HCH isomers in soil samples. <i>Fresenius' Journal of Analytical Chemistry</i> , 2000, 367, 733-737.	1.5	48
20	Application of the electrical conductivity of concentrated electrolyte solutions to industrial process control and design: from experimental measurement towards prediction through modelling. <i>TrAC - Trends in Analytical Chemistry</i> , 2001, 20, 65-78.	11.4	42
21	Optimisation and comparison of microwave-assisted extraction and Soxhlet extraction for the determination of polychlorinated biphenyls in soil samples using an experimental design approach. <i>Talanta</i> , 1999, 50, 345-357.	5.5	41
22	Use of experimental design in the optimisation of stir bar sorptive extraction followed by thermal desorption for the determination of brominated flame retardants in water samples. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 739-748.	3.7	41
23	Low-cost visible/near infrared sensor for on-line monitoring of fat and fatty acids content during the manufacturing process of the milk. <i>Food Chemistry</i> , 2012, 135, 2756-2760.	8.2	41
24	Fourier transform Raman spectroscopic study of pigments present in decorative wallpapers of the middle nineteenth century from the Santa Isabel factory (Vitoria, Basque Country, Spain). <i>Journal of Raman Spectroscopy</i> , 2002, 33, 17-25.	2.5	40
25	Distribution of trace organic contaminants and total mercury in sediments from the Bilbao and Urdaibai Estuaries (Bay of Biscay). <i>Marine Pollution Bulletin</i> , 2006, 52, 1111-1117.	5.0	38
26	Optimisation of stir bar sorptive extraction and in-tube derivatisation/thermal desorption/gas chromatography/mass spectrometry for the determination of several endocrine disruptor compounds in environmental water samples. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 339-352.	3.7	38
27	Simultaneous extraction of several persistent organic pollutants in sediment using focused ultrasonic solid-liquid extraction. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 392, 1471-1478.	3.7	35
28	On the hydrolysis of niobium(V) and tantalum(V) in 3 mol dm <sup>-3</sup> KCl at 25 °C. Part 1. Construction of a thermodynamic model for NbV. <i>Journal of the Chemical Society Dalton Transactions</i> , 1994, , 3055-3059.	1.1	33
29	Development of a Modified Bromley's Methodology (MBM) for the estimation of ionic media effects on solution equilibria. Part 2. Correlation of the molar and molal interaction parameters with the charge and crystal radii of the ions. <i>Fluid Phase Equilibria</i> , 1996, 121, 99-109.	2.5	32
30	Development of stir-bar sorptive extraction/thermal desorption/gas chromatography/mass spectrometry for the analysis of musks in vegetables and amended soils. <i>Analytica Chimica Acta</i> , 2014, 812, 74-82.	5.4	30
31	Emerging needs for sustained production of laboratory reference materials. <i>TrAC - Trends in Analytical Chemistry</i> , 2004, 23, 80-85.	11.4	26
32	Cider fermentation process monitoring by Vis-NIR sensor system and chemometrics. <i>Food Chemistry</i> , 2017, 221, 100-106.	8.2	23
33	Optimization of the multivariate calibration of a Vis-NIR sensor for the on-line monitoring of marine diesel engine lubricating oil by variable selection methods. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2014, 130, 68-75.	3.5	22
34	MultiSimplex optimisation and comparison of different purge-and-trap extractions of volatile organic compounds in soil samples. <i>Analytica Chimica Acta</i> , 2000, 416, 43-53.	5.4	20
35	Optimization of comprehensive two dimensional gas chromatography-flame ionization detection/quadrupole mass spectrometry for the separation of octyl- and nonylphenol isomers. <i>Journal of Chromatography A</i> , 2011, 1218, 3064-3069.	3.7	20
36	Matrix solid-phase dispersion of polybrominated diphenyl ethers and their hydroxylated and methoxylated analogues in lettuce, carrot and soil. <i>Journal of Chromatography A</i> , 2014, 1360, 57-65.	3.7	20

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37	Optimization of large volume injection-programmable temperature vaporization-gas chromatography-mass spectrometry analysis for the determination of estrogenic compounds in environmental samples. <i>Journal of Chromatography A</i> , 2010, 1217, 8327-8333.	3.7	19
38	SPECA: a program for the calculation of thermodynamic equilibrium constants from spectrophotometric data. <i>Talanta</i> , 1994, 41, 1637-1644.	5.5	18
39	Hydrolysis of Nb(V) and Ta(V) in aqueous KCl at 25°C. Part II: Construction of a thermodynamic model for Ta(V). <i>Journal of Solution Chemistry</i> , 1995, 24, 611-622.	1.2	16
40	MultiSimplex optimisation of purge-and-trap extraction of phenols in soil samples. <i>Journal of Chromatography A</i> , 1999, 849, 225-234.	3.7	16
41	Ultrasonic-assisted derivatization of estrogenic compounds in a cup horn booster and determination by GC-MS. <i>Journal of Separation Science</i> , 2010, 33, 104-111.	2.5	16
42	Membrane-assisted solvent extraction coupled to large volume injection-gas chromatography-mass spectrometry for the determination of a variety of endocrine disrupting compounds in environmental water samples. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 2897-2907.	3.7	16
43	Levels and spatial distribution of inorganic and organic contaminants in sediments along the Bilbao estuary. <i>Marine Pollution Bulletin</i> , 2008, 56, 2094-2099.	5.0	15
44	Focused ultrasound-assisted acceleration of enzymatic hydrolysis of alkylphenols and 17 $\beta$ -oestradiol glucuronide in fish bile. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 2307-2314.	3.7	15
45	Focused ultrasound assisted extraction for the determination of PBDEs in vegetables and amended soil. <i>Talanta</i> , 2014, 119, 53-59.	5.5	14
46	Sensitive spectrofluorimetric determination of aluminium(III) with Eriochrome Red B. <i>Analytica Chimica Acta</i> , 1991, 243, 121-125.	5.4	13
47	Potentiometric study of the protonation and distribution equilibria of d-gluconic-lactone acid in sodium perchlorate solutions at 25°C and construction of a thermodynamic model. <i>Talanta</i> , 1998, 45, 1007-1014.	5.5	10
48	Optimization of Focused Microwave-Assisted Extraction of DDT and Derivatives from Soil Samples. <i>Journal of High Resolution Chromatography</i> , 2000, 23, 681-687.	1.4	10
49	Emerging Application of a Structural and Chemical Analyzer for the Complete Characterization of Metal-Rich Particulate Matter. <i>Analytical Chemistry</i> , 2013, 85, 7173-7181.	6.5	10
50	EXTRACTION OF Ni(II) BY DI-(2-ETHYLHEXYL)PHOSPHORIC ACID DISSOLVED IN TOLUENE. <i>Solvent Extraction and Ion Exchange</i> , 1985, 3, 807-823.	2.0	9
51	Study of the complexation and precipitation equilibria in the system Cr(VI)-Fe(III)-H <sub>2</sub> O. <i>Journal of Solution Chemistry</i> , 1994, 23, 1111-1123.	1.2	9
52	Automated conductometry: robotic station for analytical titrations. <i>Analytica Chimica Acta</i> , 1995, 317, 127-136.	5.4	9
53	Interactions of metal extractant reagents. IX. Aggregation and mixed species equilibria of tri-n-dodecylammonium chloride and nitrate in toluene at 40°C. <i>Journal of Solution Chemistry</i> , 1996, 25, 1113-1124.	1.2	9
54	MultiSimplex optimisation of purge-and-trap extraction of volatile organic compounds in soil samples. <i>Analyst</i> , 2000, 125, 477-480.	3.5	9

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55	Micro-Raman spectroscopic identification of natural mineral phases and their weathering products inside an abandoned zinc/lead mine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 80, 66-74.	3.9	9
56	Application of multivariate analysis to the turbidimetric determination of sulphate in seawater. <i>Analytical Methods</i> , 2014, 6, 3510-3514.	2.7	8
57	Mixed-mode SPE followed by GC-MS analysis to determine water soluble organic compounds in aerosol and historical mortars affected by marine atmosphere: The case of Punta Begoña Galleries (Getxo, North of Spain). <i>Talanta</i> , 2018, 189, 31-38.	5.5	8
58	Ionogel-based hybrid polymer-paper handheld platform for nitrite and nitrate determination in water samples. <i>Analytica Chimica Acta</i> , 2022, 1205, 339753.	5.4	8
59	On the liquid junction potential for the determination of equilibrium constants by means of the potentiometric technique without constant ionic strength. <i>Journal of Electroanalytical Chemistry</i> , 1997, 440, 183-192.	3.8	7
60	An adapted flow injection analysis method of phosphate for estuarine samples avoiding matrix effects. <i>Microchemical Journal</i> , 2016, 124, 416-421.	4.5	7
61	Permeation of Mixtures of Four Phenols through a Supported Liquid Membrane in NaCl 1.0 mol·dm <sup>-3</sup> Medium. <i>Separation Science and Technology</i> , 1999, 34, 665-681.	2.5	6
62	Determination of ion exchange equilibrium constants of strongly acidic resins with alkaline-earth metals by means of the potentiometric titrations technique. <i>Talanta</i> , 1999, 48, 91-102.	5.5	6
63	Chemometric methods applied to the calibration of a Vis-NIR sensor for gas engine's condition monitoring. <i>Analytica Chimica Acta</i> , 2011, 705, 174-181.	5.4	6
64	Enrichment of perfluorinated alkyl substances on polyethersulfone using 1-methylpiperidine as ion-pair reagent for the clean-up of carrot and amended soil extracts. <i>Talanta</i> , 2015, 143, 263-270.	5.5	6
65	Potentiometric determination of the protonation constants of some phenols in 1.0 mol/L NaCl at 25 ± 1/2 °C. <i>Fresenius' Journal of Analytical Chemistry</i> , 1994, 349, 703-707.	1.5	5
66	Potentiometric study of the protonation and distribution equilibria of 2-chlorophenol in NaCl medium at 25 °C. Construction of a thermodynamic model. <i>Talanta</i> , 1996, 43, 11-20.	5.5	5
67	Determination of the protonation constant and partition coefficient of 4-methylpyridine in KNO <sub>3</sub> -toluene at 25 ± 1/2 °C. <i>Journal of Solution Chemistry</i> , 1991, 20, 1213-1225.	1.2	4
68	Interactions of metal extractant reagents. V: The aggregation of tri-n-dodecylammonium hydrogenchromate and hydrogensulphate dissolved in toluene at 40 ± 1/2 °C. <i>Journal of Solution Chemistry</i> , 1993, 22, 641-650.	1.2	3
69	On-Line Multicomponent Determination of the Flux of Mixtures of Phenols Through a Liquid Membrane in Real Time. <i>Mikrochimica Acta</i> , 2001, 136, 15-21.	5.0	3
70	Extraction Procedures for Organic Pollutants Determination in Water. <i>Environmental Chemistry for A Sustainable World</i> , 2012, , 171-235.	0.5	3
71	Chemometrics for the classification and calibration of seawater using the H <sup>+</sup> affinity spectrum. <i>Talanta</i> , 2013, 116, 108-114.	5.5	3
72	Accurate determination of the total alkalinity and the CO <sub>2</sub> system parameters in high-altitude lakes from the Western Pyrenees (France ↔ Spain). <i>Microchemical Journal</i> , 2020, 152, 104345.	4.5	3

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73	Voltammetric study of the oxine-based extractant Kelex 100. <i>Electroanalysis</i> , 1992, 4, 733-736.	2.9	2
74	Potentiometric study of the distribution equilibria of phenols between 1.0 mol dm <sup>-3</sup> NaCl and organic solvents at 25 °C. <i>Mikrochimica Acta</i> , 1994, 117, 31-38.	5.0	2
75	Interactions of metal extractant reagents: VII. Aggregation of tri-n-dodecylammonium chloride and perchlorate in toluene at 40 °C. <i>Journal of Solution Chemistry</i> , 1994, 23, 605-618.	1.2	2
76	Thermodynamic and Raman Spectroscopic Study to Define the Chemical Form of a Slow Release Basic Ion Exchanger. <i>Solvent Extraction and Ion Exchange</i> , 2008, 26, 208-216.	2.0	2
77	Visible/NIR on-line sensor for marine engine oil condition monitoring applying chemometric methods. <i>Proceedings of SPIE</i> , 2010, , .	0.8	2
78	Potentiometric study of the acid-base equilibrium of loprazolam at 25 °C in 0.1M NaCl medium. <i>Mikrochimica Acta</i> , 1996, 122, 133-141.	5.0	1
79	Automation of a procedure to find the polynomial which best fits ( $\hat{I}^0$ , $c_1$ , $c_2$ , T) data of electrolyte solutions by non-linear regression analysis using mathematica® software. <i>Computers &amp; Chemistry</i> , 2002, 26, 253-264.	1.2	1
80	Accurate determination of total alkalinity in estuarine waters for acidification studies. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 114, 69-80.	11.4	1
81	Selenium distribution and speciation in waters of pristine alpine lakes from central-western Pyrenees (France–Spain). <i>Environmental Sciences: Processes and Impacts</i> , 2022, 24, 1430-1442.	3.5	1