Juan Manuel FernÃ¡ndez-Romero

List of Publications by Year
in descending order

99 papers	1,565 citations	361413 20 h-index	377865 34 g-index
99 all docs	99 docs citations	99 times ranked	1566 citing authors

#	Article	IF	Citations
1	Analytical methods for the control of liposomal delivery systems. TrAC - Trends in Analytical Chemistry, 2006, 25, 167-178.	11.4	109
2	The role of liposomes in analytical processes. TrAC - Trends in Analytical Chemistry, 2005, 24, 9-19.	11.4	103
3	Effect of plasma shielding on laser ablation rate of pure metals at reduced pressure. Surface and Interface Analysis, 1999, 27, 1009-1015.	1.8	94
4	Nanostructures as analytical tools in bioassays. TrAC - Trends in Analytical Chemistry, 2008, 27, 394-406.	11.4	85
5	Partial least squares regression for problem solving in precious metal analysis by laser induced breakdown spectrometry. Journal of Analytical Atomic Spectrometry, 2000, 15, 587-593.	3.0	52
6	Characterization of jewellery products by laser-induced breakdown spectroscopy. Analytica Chimica Acta, 2002, 457, 247-256.	5.4	52
7	Determination of antioxidant additives in foodstuffs by direct measurement of gold nanoparticle formation using resonance light scattering detection. Analytica Chimica Acta, 2011, 695, 11-17.	5.4	51
8	Distribution of metal impurities in silicon wafers using imaging-mode multi-elemental laser-induced breakdown spectrometry. Journal of Analytical Atomic Spectrometry, 1999, 14, 199-204.	3.0	44
9	Flow-through optical biosensor based on the permanent immobilization of an enzyme and transient retention of a reaction product. Analytical Chemistry, 1993, 65, 3048-3052.	6.5	42
10	Application of screen-printed electrodes as transducers in affinity flow-through sensor systems. Biosensors and Bioelectronics, 1998, 13, 1107-1115.	10.1	40
11	Determination of Fluoroquinolones in Milk Samples by Postcolumn Derivatization Liquid Chromatography with Luminescence Detection. Journal of Agricultural and Food Chemistry, 2006, 54, 9670-9676.	5.2	34
12	Development of an aptamer-based SPR-biosensor for the determination of kanamycin residues in foods. Analytica Chimica Acta, 2021, 1169, 338631.	5.4	32
13	Fluorimetric Determination Of Mercury (Ii) Based On The Inhibition Of The Enzymatic Activity Of Urease. Analytical Letters, 1994, 27, 867-878.	1.8	29
14	Simultaneous spectrofluorimetric determination of glycerol and ethanol in wine by flow injection using immobilized enzymes. Analyst, The, 1995, 120, 179-182.	3.5	26
15	Three-dimensional analysis of screen-printed electrodes by laser induced breakdown spectrometry and pattern recognition. Analytica Chimica Acta, 2001, 435, 227-238.	5.4	25
16	Chromatographic determination of flumequine in food samples by post-column derivatisation with terbium(III). Analytica Chimica Acta, 2006, 578, 220-226.	5.4	24
17	On-line Flow Injectionâ€“Pervaporation of Beer Samples for the Determination of Diacetyl. Analyst, The, 1997, 122, 119-122.	3.5	23
18	Determination of fluoroquinolone antibiotics by microchip capillary electrophoresis along with time-resolved sensitized luminescence of their terbium(III) complexes. Mikrochimica Acta, 2014, 181, 1897-1904.	5.0	23

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19	Determination of biotin in foodstuffs and pharmaceutical preparations using a biosensing system based on the streptavidinâ€“biotin interaction. Analytica Chimica Acta, 2001, 436, 109-117.	5.4	22
20	Evaluation of liposome populations using a sucrose density gradient centrifugation approach coupled to a continuous flow system. Analytica Chimica Acta, 2009, 645, 79-85.	5.4	22
21	Determination of polyphenolic content in beverages using laccase, gold nanoparticles and long wavelength fluorimetry. Analytica Chimica Acta, 2012, 713, 1-6.	5.4	22
22	Determination of total cholesterol in serum by flow injection analysis with immobilized enzymes. Clinica Chimica Acta, 1987, 167, 97-104.	1.1	20
23	Determination of vitamins D2, D3, K1 and K3 and some hydroxy metabolites of vitamin D3 in plasma using a continuous clean-upâ€“preconcentration procedure coupled on-line with liquid chromatographyâ€“UV detection. Analyst, The, 1999, 124, 401-406.	3.5	20
24	Determination of aminoglycoside antibiotics using an on-chip microfluidic device with chemiluminescence detection. Mikrochimica Acta, 2012, 179, 185-192.	5.0	20
25	Strategies to improve the analytical features of microfluidic methods using nanomaterials. TrAC - Trends in Analytical Chemistry, 2014, 57, 23-33.	11.4	18
26	Development of an optical flow-through biosensor for the determination of sulphite in environmental samples. Analytica Chimica Acta, 1995, 311, 281-287.	5.4	17
27	Selective inhibition-based biosensing system for the determination of pesticides in environmental samples using analytical pervaporation coupled with enzymatic derivatisation. Analytica Chimica Acta, 2000, 408, 209-216.	5.4	17
28	Monitoring ethanol production during wine fermentation processes by a pervaporationâ€“enzymic derivatisation approach. Analyst, The, 1998, 123, 2367-2372.	3.5	16
29	Determination of alanine aminotransferase in human serum in an open-closed flow injection configuration. Journal of Biotechnology, 1990, 14, 43-52.	3.8	15
30	Gold nanoparticle-biotinylated liposome hybrids as analytical reagents for biotin determination using a competitive assay and resonance light scattering detection. Talanta, 2012, 99, 538-543.	5.5	15
31	Automatic determination of coenzyme Q10 in food using cresyl violet encapsulated into magnetoliposomes. Food Chemistry, 2017, 221, 864-870.	8.2	15
32	Integrated FIA/HPLC method for preconcentration and determination of transition metal ions. Chromatographia, 1992, 34, 445-449.	1.3	14
33	Luminescent determination of flavonoids in orange juices by LC with postâ€column derivatization with aluminum and terbium. Journal of Separation Science, 2010, 33, 509-515.	2.5	14
34	Photometric determination of thioglycolic acid in cosmetics by using a stopped-flow reverse flow-injection system and the formation of gold nanoparticles. Microchemical Journal, 2011, 97, 243-248.	4.5	14
35	Fluorometric Determination of Alkaline Phosphatase Activity in Food Using Magnetoliposomes as On-flow Microcontainer Devices. Journal of Agricultural and Food Chemistry, 2014, 62, 1819-1825.	5.2	14
36	Aminopropyl-silica as an advantageous alternative to nonpolar sorbents for continuous cleanup/preconcentration of vitamin D3 metabolites. Chromatographia, 1998, 47, 367-372.	1.3	13

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37	Analytical Innovations in the Detection of Phenolics in Wines. Journal of Agricultural and Food Chemistry, 2008, 56, 1858-1865.	5.2	13
38	Kinetic determination of lactate dehydrogenase in blood serum by multi-detection with a cyclic flow-injection system. Analytica Chimica Acta, 1989, 219, 191-199.	5.4	12
39	Flow-injection spectrophotometric enzymatic and non-enzymatic methods for the determination of direct and total bilirubin in serum. Analytica Chimica Acta, 1993, 276, 271-279.	5.4	12
40	In-depth characterization of screen-printed electrodes by laser-induced breakdown spectrometry and pattern recognition. Surface and Interface Analysis, 2001, 31, 313-320.	1.8	12
41	Total and individual determination of creatine kinase isoenzyme activities by flow injection and liquid chromatography. Analytica Chimica Acta, 1992, 263, 43-52.	5.4	11
42	Fluorimetric-flow injection determination of theophylline based on its inhibitory effect on immobilized alkaline phosphatase. Analytica Chimica Acta, 1995, 308, 159-163.	5.4	11
43	Selective determination of pectinesterase activity in foodstuffs using a pervaporator coupled to an open-closed dynamic biosensing system. Analytica Chimica Acta, 2001, 434, 95-104.	5.4	11
44	Flow injection screening and semiquantitative determination of polycyclic aromatic hydrocarbons in water by laser induced spectrofluorimetry â€" chemometrics. Analytica Chimica Acta, 2001, 448, 61-69.	5.4	11
45	Synergistic approaches based on nonchromatographic continuous separation techniques (solid-phase) Tj ETQq1 1 0.784314 rgBT /Ov 819, 25-33.	3.7	10
46	Quantitation of circulating hydroxyvitamin D 3 in human plasma by a continuous cleanup/concentration procedure prior to HPLCâ€"UV detection. Clinica Chimica Acta, 1998, 274, 139-149.	1.1	10
47	Continuous determination of chloroquine in plasma by laser-induced photochemical reaction and fluorescence. Fresenius' Journal of Analytical Chemistry, 2001, 369, 438-441.	1.5	10
48	Flow-injection spectrophotometric determination of cyanate in bioremediation processes by use of immobilised inducible cyanase. Analytical and Bioanalytical Chemistry, 2003, 377, 1071-1078.	3.7	10
49	Control of Tumor Markers Using Nanotechnology. Mini-Reviews in Medicinal Chemistry, 2009, 9, 1064-1074.	2.4	10
50	Usefulness of magnetically-controlled MNPs-enzymes microreactors for the fluorimetric determination of total cholesterol in serum. Talanta, 2020, 208, 120426.	5.5	10
51	Usefulness of Hybrid Magnetoliposomes for Aminoglycoside Antibiotic Residues Determination in Food Using an Integrated Microfluidic System with Fluorometric Detection. Journal of Agricultural and Food Chemistry, 2021, 69, 6888-6896.	5.2	10
52	Enzymatic determination of total cholesterol in serum by flow injection analysis. Journal of Pharmaceutical and Biomedical Analysis, 1987, 5, 333-340.	2.8	9
53	Approaches to the development of spectrophotometric reaction-rate methods by use of immobilized enzymes in continuous-flow systems. Analytica Chimica Acta, 1993, 274, 99-107.	5.4	9
54	Spectrophotometric determination of magnesium in serum by using a flow-injection system with an immobilized enzyme reactor. Analytica Chimica Acta, 1993, 283, 447-452.	5.4	9

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55	Near infrared thermal lens spectrometry for the real-time monitoring of supercritical fluid extraction. Talanta, 1999, 49, 813-823.	5.5	9
56	Separation and purification of hydrophobic magnetite-gold hybrid nanoparticles by multiphase density gradient centrifugation. Mikrochimica Acta, 2016, 183, 2005-2012.	5.0	9
57	Separation and characterization of liposomes using asymmetric flow field-flow fractionation with online multi-angle light scattering detection. Journal of Chromatography A, 2021, 1636, 461798.	3.7	9
58	Monitoring supercritical fluid extraction by thermal lens spectrometry with pulsed laser excitation. Analytica Chimica Acta, 1999, 390, 163-173.	5.4	8
59	Usefulness of terbium-sensitised luminescence detection for the chemometric classification of wines by their content in phenolic compounds. Food Chemistry, 2011, 124, 1753-1759.	8.2	8
60	Rapid chromatographic determination of caseins in milk with photometric and fluorimetric detection using a hydrophobic monolithic column. Food Chemistry, 2014, 142, 249-254.	8.2	8
61	Applicability of Fluorescent Hybrid Magnetoliposomes for the Determination of Reactive Oxygen Compounds in Food. Food Analytical Methods, 2018, 11, 2376-2383.	2.6	8
62	Reaction-rate measurements by use of membraneless flow-through biosensors. Sensors and Actuators B: Chemical, 1993, 10, 203-208.	7.8	7
63	Fluorimetric determination of alkaline phosphatase activity in human serum by use of a flow-through biosensor. Journal of Biotechnology, 1994, 37, 143-149.	3.8	7
64	Continuous flow assay of ammonia in plasma using immobilized enzymes. Analytica Chimica Acta, 1994, 294, 43-47.	5.4	6
65	Determination of Enzymatic Activities Based on an Optical Flow-Through p-Nitrophenol Sensor. Analytical Letters, 1993, 26, 1847-1866.	1.8	5
66	Determination of inorganic ions of clinical interest: state-of-the-art and trends. Journal of Pharmaceutical and Biomedical Analysis, 1995, 13, 797-808.	2.8	5
67	Continuous cleanup/preconcentration procedure of hydroxyvitamin D3 metabolites in plasma as an alternative to batch solid-phase extraction. Biomedical Applications, 1997, 696, 43-51.	1.7	5
68	Enhanced sensitivity by laser-induced fluorescence for the determination of calcitriol and other vitamin D3 metabolites in plasma. Chromatographia, 1999, 50, 399-406.	1.3	5
69	Determination of vitamin D3 hydroxymetabolites in plasma at the sub-part per trillion levels using on-line cleanup/preconcentration and HPLC-fluorimetric post-column derivatisation. Talanta, 1999, 50, 57-66.	5.5	5
70	Determination of creatine kinase activity using a co-immobilized auxiliary enzyme reactor coupled on-line with a flow injection system. Analyst, The, 1991, 116, 167-169.	3.5	4
71	Determination of Michaelis-Menten and inhibitor constants by an open-closed flow injection approach (Application to the alkaline phosphatase/theophylline system). Talanta, 1995, 42, 1103-1110.	5.5	4
72	Light scattering-based determination of fibrinogen in human plasma using an automated continuous system. Analytica Chimica Acta, 1996, 327, 101-106.	5.4	4

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73	Pulse Thermal Lens Spectrometry of Î²-Carotene in Flow Systems at Atmospheric- and High-Pressure Conditions. Applied Spectroscopy, 1998, 52, 1465-1471.	2.2	4
74	Inhibition-based determination of metrifonate in liquid and solid samples using the triple integration chemical hydrolysisâ€“pervaporationâ€“enzymic derivatisation. Talanta, 2001, 53, 961-970.	5.5	4
75	Determination of anti-canine IgG using a continuous filtration/dissolution system based on the formation of a high-molecular size immunocomplex. Talanta, 2001, 55, 821-829.	5.5	4
76	SEMIAUTOMATED SPECTROPHOTOMETRIC METHOD FOR THE DETERMINATION OF PECTINESTERASE ACTIVITY IN NATURAL AND PROCESSED JUICES. Analytical Letters, 2001, 34, 2277-2284.	1.8	4
77	Determination of 3,5,6-trichloro-2-pyridinol (TCP) in water by a continuous competitive immunoassay system based on the streptavidin-biotin interaction. Analytical and Bioanalytical Chemistry, 2002, 372, 366-372.	3.7	4
78	Post-Column On-Line HPLC Measurement of Reaction Rates by using an Open--Closed Derivatizing System. Journal of Chromatographic Science, 1991, 29, 377-381.	1.4	3
79	Spectrofluorimetric flow-injection determination of potassium in serum based on enzyme activation. Analytica Chimica Acta, 1995, 308, 178-186.	5.4	3
80	Flow-through biosensor for sequential determination of total and prostatic acid phosphatase activity. Sensors and Actuators B: Chemical, 1995, 23, 9-15.	7.8	3
81	Continuous flow system for the evaluation of the extrinsic coagulation pathway. Talanta, 1996, 43, 1531-1537.	5.5	3
82	Laser ablation-atomic fluorescence approach for the determination of mercury. Fresenius' Journal of Analytical Chemistry, 1999, 365, 320-324.	1.5	3
83	Long-Wavelength Fluorescence Detection of Flavonoids in Orange Juices by LC. Chromatographia, 2010, 72, 1115-1120.	1.3	3
84	Luminescence continuous flow system for monitoring the efficiency of hybrid liposomes separation using multiphase density gradient centrifugation. Talanta, 2021, 222, 121532.	5.5	3
85	Photometric and Fluorimetric Determination of Creatine Kinase Activity by Using Co-Immobilized Auxiliary Enzymes and an Open/Closed Flow Injection Manifold. Analytical Letters, 1991, 24, 749-765.	1.8	2
86	New possibilities for openâ€“closed flow-injection systems: an approach to interference removal. Analytical Proceedings, 1994, 31, 233-235.	0.4	2
87	Precipitation flow injection immunoassay for human immunoglobulin G. Analyst, The, 1996, 121, 1565-1568.	3.5	2
88	A flow-injection continuous filtration approach for the automatic determination of monoclonal antibodies. Analytica Chimica Acta, 1996, 331, 245-251.	5.4	2
89	High Throughput Bioassays Using Nanoparticles. Combinatorial Chemistry and High Throughput Screening, 2010, 13, 309-317.	1.1	2
90	Determination of N-acetylcysteine via its effect on the aggregation of gold nanoparticles. Mikrochimica Acta, 2011, 173, 11-17.	5.0	2

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91	A general thiol assay based on the suppression of fluorescence resonance energy transfer in magnetic-resin core-shell nanospheres coated with gold nanoparticles. Mikrochimica Acta, 2015, 182, 2285-2292.	5.0	2
92	Fluorescence: Food Applications. , 2018, , 281-281.		2
93	Integration of a microfluidic system into a conventional luminescence detector using a 3D printed alignment device. Mikrochimica Acta, 2020, 187, 620.	5.0	2
94	Comparison of different flow injection approaches to the automatic determination of enzymatic activity. Journal of Pharmaceutical and Biomedical Analysis, 1989, 7, 295-302.	2.8	1
95	Automatic determination of malate dehydrogenase activity by two flow injection modes. Fresenius' Journal of Analytical Chemistry, 1990, 336, 676-678.	1.5	1
96	Kinetic determination of aspartate aminotransferase in human serum with a flow-injection/multidetection system. Journal of Pharmaceutical and Biomedical Analysis, 1991, 9, 679-684.	2.8	1
97	Enzymatic determination of bicarbonate in serum by flow injection analysis. Clinica Chimica Acta, 1995, 235, 169-177.	1.1	1
98	Automation of enzymatic hydrolysis by use of continuous flow methods involving immobilized biocatalysts. Analytica Chimica Acta, 1992, 264, 275-282.	5.4	0
99	Fluorescence: Clinical and Drug Applications. , 2018, , 233-233.		0