

Juan Manuel Fernández-Romero

List of Publications by Year in descending order

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99
papers

1,565
citations

361413

20
h-index

377865

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99
all docs

99
docs citations

99
times ranked

1566
citing authors

#	ARTICLE	IF	CITATIONS
1	Separation and characterization of liposomes using asymmetric flow field-flow fractionation with online multi-angle light scattering detection. <i>Journal of Chromatography A</i> , 2021, 1636, 461798.	3.7	9
2	Luminescence continuous flow system for monitoring the efficiency of hybrid liposomes separation using multiphase density gradient centrifugation. <i>Talanta</i> , 2021, 222, 121532.	5.5	3
3	Usefulness of Hybrid Magnetoliposomes for Aminoglycoside Antibiotic Residues Determination in Food Using an Integrated Microfluidic System with Fluorometric Detection. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 6888-6896.	5.2	10
4	Development of an aptamer-based SPR-biosensor for the determination of kanamycin residues in foods. <i>Analytica Chimica Acta</i> , 2021, 1169, 338631.	5.4	32
5	Usefulness of magnetically-controlled MNPs-enzymes microreactors for the fluorimetric determination of total cholesterol in serum. <i>Talanta</i> , 2020, 208, 120426.	5.5	10
6	Integration of a microfluidic system into a conventional luminescence detector using a 3D printed alignment device. <i>Mikrochimica Acta</i> , 2020, 187, 620.	5.0	2
7	Fluorescence: Food Applications. , 2018, , 281-281.		2
8	Fluorescence: Clinical and Drug Applications. , 2018, , 233-233.		0
9	Applicability of Fluorescent Hybrid Magnetoliposomes for the Determination of Reactive Oxygen Compounds in Food. <i>Food Analytical Methods</i> , 2018, 11, 2376-2383.	2.6	8
10	Automatic determination of coenzyme Q10 in food using cresyl violet encapsulated into magnetoliposomes. <i>Food Chemistry</i> , 2017, 221, 864-870.	8.2	15
11	Separation and purification of hydrophobic magnetite-gold hybrid nanoparticles by multiphase density gradient centrifugation. <i>Mikrochimica Acta</i> , 2016, 183, 2005-2012.	5.0	9
12	A general thiol assay based on the suppression of fluorescence resonance energy transfer in magnetic-resin core-shell nanospheres coated with gold nanoparticles. <i>Mikrochimica Acta</i> , 2015, 182, 2285-2292.	5.0	2
13	Rapid chromatographic determination of caseins in milk with photometric and fluorimetric detection using a hydrophobic monolithic column. <i>Food Chemistry</i> , 2014, 142, 249-254.	8.2	8
14	Strategies to improve the analytical features of microfluidic methods using nanomaterials. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 57, 23-33.	11.4	18
15	Fluorometric Determination of Alkaline Phosphatase Activity in Food Using Magnetoliposomes as On-flow Microcontainer Devices. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 1819-1825.	5.2	14
16	Determination of fluoroquinolone antibiotics by microchip capillary electrophoresis along with time-resolved sensitized luminescence of their terbium(III) complexes. <i>Mikrochimica Acta</i> , 2014, 181, 1897-1904.	5.0	23
17	Gold nanoparticle-biotinylated liposome hybrids as analytical reagents for biotin determination using a competitive assay and resonance light scattering detection. <i>Talanta</i> , 2012, 99, 538-543.	5.5	15
18	Determination of polyphenolic content in beverages using laccase, gold nanoparticles and long wavelength fluorimetry. <i>Analytica Chimica Acta</i> , 2012, 713, 1-6.	5.4	22

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19	Determination of aminoglycoside antibiotics using an on-chip microfluidic device with chemiluminescence detection. <i>Mikrochimica Acta</i> , 2012, 179, 185-192.	5.0	20
20	Determination of N-acetylcysteine via its effect on the aggregation of gold nanoparticles. <i>Mikrochimica Acta</i> , 2011, 173, 11-17.	5.0	2
21	Determination of antioxidant additives in foodstuffs by direct measurement of gold nanoparticle formation using resonance light scattering detection. <i>Analytica Chimica Acta</i> , 2011, 695, 11-17.	5.4	51
22	Usefulness of terbium-sensitised luminescence detection for the chemometric classification of wines by their content in phenolic compounds. <i>Food Chemistry</i> , 2011, 124, 1753-1759.	8.2	8
23	Photometric determination of thioglycolic acid in cosmetics by using a stopped-flow reverse flow-injection system and the formation of gold nanoparticles. <i>Microchemical Journal</i> , 2011, 97, 243-248.	4.5	14
24	High Throughput Bioassays Using Nanoparticles. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2010, 13, 309-317.	1.1	2
25	Long-Wavelength Fluorescence Detection of Flavonoids in Orange Juices by LC. <i>Chromatographia</i> , 2010, 72, 1115-1120.	1.3	3
26	Luminescent determination of flavonoids in orange juices by LC with post-column derivatization with aluminum and terbium. <i>Journal of Separation Science</i> , 2010, 33, 509-515.	2.5	14
27	Control of Tumor Markers Using Nanotechnology. <i>Mini-Reviews in Medicinal Chemistry</i> , 2009, 9, 1064-1074.	2.4	10
28	Evaluation of liposome populations using a sucrose density gradient centrifugation approach coupled to a continuous flow system. <i>Analytica Chimica Acta</i> , 2009, 645, 79-85.	5.4	22
29	Nanostructures as analytical tools in bioassays. <i>TrAC - Trends in Analytical Chemistry</i> , 2008, 27, 394-406.	11.4	85
30	Analytical Innovations in the Detection of Phenolics in Wines. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 1858-1865.	5.2	13
31	Determination of Fluoroquinolones in Milk Samples by Postcolumn Derivatization Liquid Chromatography with Luminescence Detection. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 9670-9676.	5.2	34
32	Chromatographic determination of flumequine in food samples by post-column derivatisation with terbium(III). <i>Analytica Chimica Acta</i> , 2006, 578, 220-226.	5.4	24
33	Analytical methods for the control of liposomal delivery systems. <i>TrAC - Trends in Analytical Chemistry</i> , 2006, 25, 167-178.	11.4	109
34	The role of liposomes in analytical processes. <i>TrAC - Trends in Analytical Chemistry</i> , 2005, 24, 9-19.	11.4	103
35	Flow-injection spectrophotometric determination of cyanate in bioremediation processes by use of immobilised inducible cyanase. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 377, 1071-1078.	3.7	10
36	Determination of 3,5,6-trichloro-2-pyridinol (TCP) in water by a continuous competitive immunoassay system based on the streptavidin-biotin interaction. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 372, 366-372.	3.7	4

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37	Characterization of jewellery products by laser-induced breakdown spectroscopy. <i>Analytica Chimica Acta</i> , 2002, 457, 247-256.	5.4	52
38	Inhibition-based determination of metrifonate in liquid and solid samples using the triple integration chemical hydrolysis-pervaporation-enzymic derivatisation. <i>Talanta</i> , 2001, 53, 961-970.	5.5	4
39	Determination of anti-canine IgG using a continuous filtration/dissolution system based on the formation of a high-molecular size immunocomplex. <i>Talanta</i> , 2001, 55, 821-829.	5.5	4
40	Continuous determination of chloroquine in plasma by laser-induced photochemical reaction and fluorescence. <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 369, 438-441.	1.5	10
41	In-depth characterization of screen-printed electrodes by laser-induced breakdown spectrometry and pattern recognition. <i>Surface and Interface Analysis</i> , 2001, 31, 313-320.	1.8	12
42	Selective determination of pectinesterase activity in foodstuffs using a pervaporator coupled to an open-closed dynamic biosensing system. <i>Analytica Chimica Acta</i> , 2001, 434, 95-104.	5.4	11
43	Three-dimensional analysis of screen-printed electrodes by laser induced breakdown spectrometry and pattern recognition. <i>Analytica Chimica Acta</i> , 2001, 435, 227-238.	5.4	25
44	Determination of biotin in foodstuffs and pharmaceutical preparations using a biosensing system based on the streptavidin-biotin interaction. <i>Analytica Chimica Acta</i> , 2001, 436, 109-117.	5.4	22
45	Flow injection screening and semiquantitative determination of polycyclic aromatic hydrocarbons in water by laser induced spectrofluorimetry - chemometrics. <i>Analytica Chimica Acta</i> , 2001, 448, 61-69.	5.4	11
46	SEMIAUTOMATED SPECTROPHOTOMETRIC METHOD FOR THE DETERMINATION OF PECTINESTERASE ACTIVITY IN NATURAL AND PROCESSED JUICES. <i>Analytical Letters</i> , 2001, 34, 2277-2284.	1.8	4
47	Selective inhibition-based biosensing system for the determination of pesticides in environmental samples using analytical pervaporation coupled with enzymatic derivatisation. <i>Analytica Chimica Acta</i> , 2000, 408, 209-216.	5.4	17
48	Partial least squares regression for problem solving in precious metal analysis by laser induced breakdown spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2000, 15, 587-593.	3.0	52
49	Monitoring supercritical fluid extraction by thermal lens spectrometry with pulsed laser excitation. <i>Analytica Chimica Acta</i> , 1999, 390, 163-173.	5.4	8
50	Laser ablation-atomic fluorescence approach for the determination of mercury. <i>Fresenius' Journal of Analytical Chemistry</i> , 1999, 365, 320-324.	1.5	3
51	Enhanced sensitivity by laser-induced fluorescence for the determination of calcitriol and other vitamin D3 metabolites in plasma. <i>Chromatographia</i> , 1999, 50, 399-406.	1.3	5
52	Effect of plasma shielding on laser ablation rate of pure metals at reduced pressure. <i>Surface and Interface Analysis</i> , 1999, 27, 1009-1015.	1.8	94
53	Determination of vitamins D2, D3, K1 and K3 and some hydroxy metabolites of vitamin D3 in plasma using a continuous clean-up-preconcentration procedure coupled on-line with liquid chromatography-UV detection. <i>Analyst, The</i> , 1999, 124, 401-406.	3.5	20
54	Near infrared thermal lens spectrometry for the real-time monitoring of supercritical fluid extraction. <i>Talanta</i> , 1999, 49, 813-823.	5.5	9

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55	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. <i>Talanta</i> , 1999, 50, 57-66.	5.5	5
56	Distribution of metal impurities in silicon wafers using imaging-mode multi-elemental laser-induced breakdown spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1999, 14, 199-204.	3.0	44
57	Synergistic approaches based on nonchromatographic continuous separation techniques (solid-phase) Tj ETQq1 1 0.784314 rgBT /Ov 819, 25-33.	3.7	10
58	Aminopropyl-silica as an advantageous alternative to nonpolar sorbents for continuous cleanup/preconcentration of vitamin D3 metabolites. <i>Chromatographia</i> , 1998, 47, 367-372.	1.3	13
59	Application of screen-printed electrodes as transducers in affinity flow-through sensor systems. <i>Biosensors and Bioelectronics</i> , 1998, 13, 1107-1115.	10.1	40
60	Quantitation of circulating hydroxyvitamin D 3 in human plasma by a continuous cleanup/concentration procedure prior to HPLC-UV detection. <i>Clinica Chimica Acta</i> , 1998, 274, 139-149.	1.1	10
61	Monitoring ethanol production during wine fermentation processes by a pervaporation-enzymic derivatisation approach. <i>Analyst, The</i> , 1998, 123, 2367-2372.	3.5	16
62	Pulse Thermal Lens Spectrometry of β -Carotene in Flow Systems at Atmospheric- and High-Pressure Conditions. <i>Applied Spectroscopy</i> , 1998, 52, 1465-1471.	2.2	4
63	On-line Flow Injection-Pervaporation of Beer Samples for the Determination of Diacetyl. <i>Analyst, The</i> , 1997, 122, 119-122.	3.5	23
64	Continuous cleanup/preconcentration procedure of hydroxyvitamin D3 metabolites in plasma as an alternative to batch solid-phase extraction. <i>Biomedical Applications</i> , 1997, 696, 43-51.	1.7	5
65	Continuous flow system for the evaluation of the extrinsic coagulation pathway. <i>Talanta</i> , 1996, 43, 1531-1537.	5.5	3
66	Precipitation flow injection immunoassay for human immunoglobulin G. <i>Analyst, The</i> , 1996, 121, 1565-1568.	3.5	2
67	Light scattering-based determination of fibrinogen in human plasma using an automated continuous system. <i>Analytica Chimica Acta</i> , 1996, 327, 101-106.	5.4	4
68	A flow-injection continuous filtration approach for the automatic determination of monoclonal antibodies. <i>Analytica Chimica Acta</i> , 1996, 331, 245-251.	5.4	2
69	Fluorimetric-flow injection determination of theophylline based on its inhibitory effect on immobilized alkaline phosphatase. <i>Analytica Chimica Acta</i> , 1995, 308, 159-163.	5.4	11
70	Spectrofluorimetric flow-injection determination of potassium in serum based on enzyme activation. <i>Analytica Chimica Acta</i> , 1995, 308, 178-186.	5.4	3
71	Development of an optical flow-through biosensor for the determination of sulphite in environmental samples. <i>Analytica Chimica Acta</i> , 1995, 311, 281-287.	5.4	17
72	Flow-through biosensor for sequential determination of total and prostatic acid phosphatase activity. <i>Sensors and Actuators B: Chemical</i> , 1995, 23, 9-15.	7.8	3

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73	Determination of inorganic ions of clinical interest: state-of-the-art and trends. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1995, 13, 797-808.	2.8	5
74	Determination of Michaelis-Menten and inhibitor constants by an open-closed flow injection approach (Application to the alkaline phosphatase/theophylline system). <i>Talanta</i> , 1995, 42, 1103-1110.	5.5	4
75	Enzymatic determination of bicarbonate in serum by flow injection analysis. <i>Clinica Chimica Acta</i> , 1995, 235, 169-177.	1.1	1
76	Simultaneous spectrofluorimetric determination of glycerol and ethanol in wine by flow injection using immobilized enzymes. <i>Analyst, The</i> , 1995, 120, 179-182.	3.5	26
77	Fluorimetric Determination Of Mercury (II) Based On The Inhibition Of The Enzymatic Activity Of Urease. <i>Analytical Letters</i> , 1994, 27, 867-878.	1.8	29
78	Continuous flow assay of ammonia in plasma using immobilized enzymes. <i>Analytica Chimica Acta</i> , 1994, 294, 43-47.	5.4	6
79	Fluorimetric determination of alkaline phosphatase activity in human serum by use of a flow-through biosensor. <i>Journal of Biotechnology</i> , 1994, 37, 143-149.	3.8	7
80	New possibilities for open-closed flow-injection systems: an approach to interference removal. <i>Analytical Proceedings</i> , 1994, 31, 233-235.	0.4	2
81	Flow-injection spectrophotometric enzymatic and non-enzymatic methods for the determination of direct and total bilirubin in serum. <i>Analytica Chimica Acta</i> , 1993, 276, 271-279.	5.4	12
82	Approaches to the development of spectrophotometric reaction-rate methods by use of immobilized enzymes in continuous-flow systems. <i>Analytica Chimica Acta</i> , 1993, 274, 99-107.	5.4	9
83	Spectrophotometric determination of magnesium in serum by using a flow-injection system with an immobilized enzyme reactor. <i>Analytica Chimica Acta</i> , 1993, 283, 447-452.	5.4	9
84	Reaction-rate measurements by use of membraneless flow-through biosensors. <i>Sensors and Actuators B: Chemical</i> , 1993, 10, 203-208.	7.8	7
85	Flow-through optical biosensor based on the permanent immobilization of an enzyme and transient retention of a reaction product. <i>Analytical Chemistry</i> , 1993, 65, 3048-3052.	6.5	42
86	Determination of Enzymatic Activities Based on an Optical Flow-Through p-Nitrophenol Sensor. <i>Analytical Letters</i> , 1993, 26, 1847-1866.	1.8	5
87	Integrated FIA/HPLC method for preconcentration and determination of transition metal ions. <i>Chromatographia</i> , 1992, 34, 445-449.	1.3	14
88	Total and individual determination of creatine kinase isoenzyme activities by flow injection and liquid chromatography. <i>Analytica Chimica Acta</i> , 1992, 263, 43-52.	5.4	11
89	Automation of enzymatic hydrolysis by use of continuous flow methods involving immobilized biocatalysts. <i>Analytica Chimica Acta</i> , 1992, 264, 275-282.	5.4	0
90	Determination of creatine kinase activity using a co-immobilized auxiliary enzyme reactor coupled on-line with a flow injection system. <i>Analyst, The</i> , 1991, 116, 167-169.	3.5	4

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91	Kinetic determination of aspartate aminotransferase in human serum with a flow-injection/multidetector system. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1991, 9, 679-684.	2.8	1
92	Post-Column On-Line HPLC Measurement of Reaction Rates by using an Open-Closed Derivatizing System. <i>Journal of Chromatographic Science</i> , 1991, 29, 377-381.	1.4	3
93	Photometric and Fluorimetric Determination of Creatine Kinase Activity by Using Co-Immobilized Auxiliary Enzymes and an Open/Closed Flow Injection Manifold. <i>Analytical Letters</i> , 1991, 24, 749-765.	1.8	2
94	Automatic determination of malate dehydrogenase activity by two flow injection modes. <i>Fresenius' Journal of Analytical Chemistry</i> , 1990, 336, 676-678.	1.5	1
95	Determination of alanine aminotransferase in human serum in an open-closed flow injection configuration. <i>Journal of Biotechnology</i> , 1990, 14, 43-52.	3.8	15
96	Comparison of different flow injection approaches to the automatic determination of enzymatic activity. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1989, 7, 295-302.	2.8	1
97	Kinetic determination of lactate dehydrogenase in blood serum by multi-detection with a cyclic flow-injection system. <i>Analytica Chimica Acta</i> , 1989, 219, 191-199.	5.4	12
98	Determination of total cholesterol in serum by flow injection analysis with immobilized enzymes. <i>Clinica Chimica Acta</i> , 1987, 167, 97-104.	1.1	20
99	Enzymatic determination of total cholesterol in serum by flow injection analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1987, 5, 333-340.	2.8	9