Alberto N Araujo

List of Publications by Year
in descending order

131 papers	4,371 citations	156536 32 h-index	145109 60 g-index
134 all docs	134 docs citations	134 times ranked	5796 citing authors

#	Article	IF	Citations
1	HPLC-potentiometric method for determination of biogenic amines in alcoholic beverages: A reliable approach for food quality control. Food Chemistry, 2022, 372, 131288.	4.2	17
2	Minimizing the Silver Free Ion Content in Starch Coated Silver Nanoparticle Suspensions with Exchange Cationic Resins. Nanomaterials, 2022, 12, 644.	1.9	1
3	Cucurbit[8]uril-Based Potentiometric Sensor Coupled to HPLC for Determination of Tetracycline Residues in Milk Samples. Chemosensors, 2022, 10, 98.	1.8	2
4	A combined experimental and computational study to discover novel tyrosinase inhibitors. Journal of Inorganic Biochemistry, 2022, 234, 111879.	1.5	2
5	Inhibition of the carbohydrate-hydrolyzing enzymes Î±-amylase and Î±-glucosidase by hydroxylated xanthones. Food and Function, 2022, 13, 7930-7941.	2.1	12
6	Determination of biogenic amines in tomato by ion-pair chromatography coupled to an amine-selective potentiometric detector. Electrochimica Acta, 2021, 378, 138134.	2.6	6
7	Pyrazoles as novel protein tyrosine phosphatase 1B (PTP1B) inhibitors: An in vitro and in silico study. International Journal of Biological Macromolecules, 2021, 181, 1171-1182.	3.6	19
8	Optimization and Validation of an In Vitro Standardized Glycogen Phosphorylase Activity Assay. Molecules, 2021, 26, 4635.	1.7	7
9	Challenges in the design of electrochemical sensor for glyphosate-based on new materials and biological recognition. Science of the Total Environment, 2021, 793, 148496.	3.9	31
10	An overview of Structured Biosensors for Metal Ions Determination. Chemosensors, 2021, 9, 324.	1.8	7
11	In vitro assessment of polyethylene glycol and polyvinylpyrrolidone as hydrophilic additives on bioseparation by polysulfone membranes. Journal of Materials Science, 2020, 55, 1292-1307.	1.7	10
12	Nanostructured pencil graphite electrodes for application as high power biocathodes in miniaturized biofuel cells and bio-batteries. Scientific Reports, 2020, 10, 16535.	1.6	10
13	Doping Polysulfone Membrane with Alphaâ€Tocopherol and Alphaâ€Lipoic Acid for Suppressing Oxidative Stress Induced by Hemodialysis Treatment. Macromolecular Bioscience, 2020, 20, 2000046.	2.1	11
14	The biocompatibility and bioactivity of hemodialysis membranes: their impact in end-stage renal disease. Journal of Artificial Organs, 2019, 22, 14-28.	0.4	43
15	A study towards drug discovery for the management of type 2 diabetes mellitus through inhibition of the carbohydrate-hydrolyzing enzymes Î±-amylase and Î±-glucosidase by chalcone derivatives. Food and Function, 2019, 10, 5510-5520.	2.1	41
16	The dipeptidyl peptidase-4 inhibitory effect of flavonoids is hindered in protein rich environments. Food and Function, 2019, 10, 5718-5731.	2.1	19
17	Conjugation of glucose oxidase and bilirubin oxidase bioelectrodes as biofuel cell in a finger-powered microfluidic platform. Electrochimica Acta, 2019, 318, 922-930.	2.6	15
18	Potentiometric detection in liquid chromatographic systems: An overview. Journal of Chromatography A, 2019, 1602, 326-340.	1.8	14

#	Article	IF	Citations
19	Evaluation of a flavonoids library for inhibition of pancreatic Î±-amylase towards a structureâ€“activity relationship. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 577-588.	2.5	100
20	Microfluidic Platform with an Embedded Pencil Graphite Electrode Biosensor for the Detection of Glucose and Cadmium. Journal of the Electrochemical Society, 2019, 166, B155-B160.	1.3	11
21	Determination of pKa(s) of nilutamide through UV-visible spectroscopy. Microchemical Journal, 2018, 138, 303-308.	2.3	12
22	Biosensing based on pencil graphite electrodes. Talanta, 2018, 190, 235-247.	2.9	91
23	Potentiometric perchlorate determination at nanomolar concentrations in vegetables. Food Chemistry, 2017, 227, 166-172.	4.2	12
24	Implementation of a Simple Nanostructured Bioâ€electrode with Immobilized Rhus Vernicifera Laccase for Oxygen Sensing Applications. Electroanalysis, 2017, 29, 1566-1572.	1.5	5
25	Fluorescence probe for mercury(<scp>ii</scp>) based on the aqueous synthesis of CdTe quantum dots stabilized with 2-mercaptoethanesulfonate. New Journal of Chemistry, 2017, 41, 3265-3272.	1.4	17
26	Synthesis of distinctly thiol-capped CdTe quantum dots under microwave heating: multivariate optimization and characterization. Journal of Materials Science, 2017, 52, 3208-3224.	1.7	24
27	Heterogeneous photocatalytic degradation of phenol and derivatives by (BiPO4/H2O2/UV and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 2017, 34, 511-522.	1.2	11
28	Clean photoinduced generation of free reactive oxygen species by silica films embedded with CdTeâ€“MTA quantum dots. RSC Advances, 2016, 6, 8563-8571.	1.7	7
29	Validation of a chromatographic method for amoxicillin determination in wastewaters after its degradation by advanced oxidation process. Desalination and Water Treatment, 2016, 57, 10988-10994.	1.0	5
30	Study of a Novel Bisnaphthalimidopropyl Polyamine as Electroactive Material for Perchlorateâ€selective Potentiometric Sensors. Electroanalysis, 2015, 27, 2809-2819.	1.5	9
31	Vortexâ€assisted liquidâ€“liquid microâ€extraction and highâ€performance liquid chromatography for a higher sensitivity methyl methacrylate determination in biological matrices. Biomedical Chromatography, 2014, 28, 680-685.	0.8	4
32	Fully automated analytical procedure for propofol determination by sequential injection technique with spectrophotometric and fluorimetric detections. Talanta, 2014, 118, 104-110.	2.9	13
33	Pilot monitoring study of ibuprofen in surface waters of north of Portugal. Environmental Science and Pollution Research, 2013, 20, 2410-2420.	2.7	54
34	Development of a simple analytical method for the simultaneous determination of paracetamol, paracetamol-glucuronide and p-aminophenol in river water. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2013, 930, 75-81.	1.2	55
35	Glutamate sol-gel amperometric biosensor based on co-immobilised NADP+ and glutamate dehydrogenase. Journal of Analytical Chemistry, 2013, 68, 794-800.	0.4	5
36	A SO2-selective electrode based on a Zn-porphyrin for wine analysis. Analytica Chimica Acta, 2013, 787, 57-63.	2.6	10

#	Article	IF	Citations
37	Cyclodextrin based potentiometric sensor for determination of ibuprofen in pharmaceuticals and waters. Sensors and Actuators B: Chemical, 2013, 176, 660-666.	4.0	30
38	A multicommuted flow analysis method for the photometric determination of amoxicillin in pharmaceutical formulations using a diazo coupling reaction. Journal of the Brazilian Chemical Society, 2011, 22, 279-285.	0.6	6
39	Physicalâ€“chemical parameters and validation of a colorimetric method for deoxycholic and ursodeoxycholic acids: kit reagent and optical sensor. Chemistry and Physics of Lipids, 2011, 164, 99-105.	1.5	5
40	Sequential Injection Analysis of Ampicillin in Pharmaceuticals by Using Potentiometric Detectors Based on PVC and Sol-Gel Membranes. American Journal of Analytical Chemistry, 2011, 02, 491-499.	0.3	4
41	A Reflectance Flow-through Thionine Sol-gel Sensor for the Determination of Se(IV). Analytical Sciences, 2010, 26, 665-669.	0.8	1
42	An efficient non-mediated amperometric biosensor for nitrite determination. Biosensors and Bioelectronics, 2010, 25, 2026-2032.	5.3	49
43	Tetracycline Potentiometric Sensor Based on Cyclodextrin for Pharmaceuticals and Waste Water Analysis. Electroanalysis, 2010, 22, 2967-2972.	1.5	15
44	Ecotoxicological aspects related to the presence of pharmaceuticals in the aquatic environment. Journal of Hazardous Materials, 2010, 175, 45-95.	6.5	1,166
45	SI lab-on-valve analysis of histamine using potentiometric detection for food quality control. Food Chemistry, 2010, 122, 871-876.	4.2	22
46	Development of a Multicommutated Flow System with Chemiluminometric Detection for Quantification of Gentamicin in Pharmaceuticals. Journal of Automated Methods and Management in Chemistry, 2010, 2010, 1-7.	0.5	2
47	Spectrophotometric Determination of Thiocyanate in Human Saliva Employing Micropumping Multicommutation Flow System. Spectroscopy Letters, 2010, 43, 213-219.	0.5	14
48	Simultaneous Potentiometric Determination of Thiamine and Pyridoxine in Multivitamins Using a Single Cyclodextrin-Based Thiamine-Selective Electrode. Analytical Letters, 2009, 42, 1923-1939.	1.0	2
49	Development of a sequential injection analysis system for the potentiometric determination of nitrite in meat products by using a Granâ€™s plot method. Mikrochimica Acta, 2009, 165, 117-122.	2.5	7
50	Simple Determination of Deoxycholic and Ursodeoxycholic Acids by Phenolphthalein-Î²-Cyclodextrin Inclusion Complex. Lipids, 2009, 44, 1063-1070.	0.7	8
51	Modeling, Structural, and Spectroscopic Studies of Lanthanide-Organic Frameworks. Journal of Physical Chemistry B, 2009, 113, 12181-12188.	1.2	57
52	Enzymatic Determination of Glucose in Milk Samples by Sequential Injection Analysis. Analytical Sciences, 2009, 25, 687-692.	0.8	6
53	New ionophores for vitamin B1 and vitamin B6 potentiometric sensors for multivitaminic control. Journal of Pharmaceutical and Biomedical Analysis, 2008, 46, 683-691.	1.4	18
54	Cyclodextrin-based potentiometric sensors for midazolam and diazepam. Journal of Pharmaceutical and Biomedical Analysis, 2008, 48, 1064-1069.	1.4	32

#	Article	IF	Citations
55	Simultaneous Determination of Potassium and Nitrate Ions in Mouthwashes Using Sequential Injection Analysis with Potentiometric Detection. Analytical Sciences, 2008, 24, 803-807.	0.8	10
56	Optical sensors and biosensors based on solâ€“gel films. Talanta, 2007, 72, 13-27.	2.9	266
57	Exploiting sequential injection analysis with lab-on-valve and miniaturized potentiometric detectionEpinephrine determination in pharmaceutical products. Talanta, 2007, 72, 1255-1260.	2.9	34
58	Sequential Injection Lab-on-Valve Procedure for the Determination of Amantadine Using Potentiometric Methods. Electroanalysis, 2007, 19, 2227-2233.	1.5	20
59	On-line coupling of sequential injection extraction with restricted-access materials and post-column derivatization for sample clean-up and determination of propranolol in human plasma. Analytica Chimica Acta, 2007, 600, 122-128.	2.6	14
60	Photo-induced chemiluminometric determination of Karbutilate in a continuous-flow Multicommutation assembly. Journal of Pharmaceutical and Biomedical Analysis, 2007, 43, 421-427.	1.4	16
61	Application of lactate amperometric solâ€“gel biosensor to sequential injection determination of l-lactate. Journal of Pharmaceutical and Biomedical Analysis, 2007, 43, 1376-1381.	1.4	24
62	A flow-batch internal standard procedure for iron determination in hydrated ethanol fuel by flame atomic absorption spectrometry. Talanta, 2006, 70, 522-526.	2.9	29
63	Application of sequential injection analysis to pharmaceutical analysis. Journal of Pharmaceutical and Biomedical Analysis, 2006, 40, 16-34.	1.4	53
64	Potentiometric behaviour of ion selective electrodes based on iron porphyrins: The influence of porphyrin substituents on the response properties and analytical determination of diclofenac in pharmaceutical formulations. Journal of Pharmaceutical and Biomedical Analysis, 2006, 42, 535-542.	1.4	25
65	Extraction and recovery of chromium from electroplating sludge. Journal of Hazardous Materials, 2006, 128, 39-43.	6.5	79
66	Construction and evaluation of PVC and solâ€“gel sensor membranes based on Mn(III)TPP-Cl. Application to valproate determination in pharmaceutical preparations. Analytical and Bioanalytical Chemistry, 2006, 384, 867-875.	1.9	18
67	Application of sequential injection analysis (SIA) to food analysis. Food Chemistry, 2005, 90, 471-490.	4.2	29
68	Sequential injection analysis using electrochemical detection: A review. Analytica Chimica Acta, 2005, 554, 1-16.	2.6	51
69	Sequential injection extraction based on restricted access material for determination of furosemide in serum. Journal of Chromatography A, 2005, 1087, 245-251.	1.8	25
70	An Inexpensive Biosensor for Uric Acid Determination in Human Serum by Flow-Injection Analysis. Electroanalysis, 2005, 17, 701-705.	1.5	17
71	New PVC Nitrate-Selective Electrode:Â Application to Vegetables and Mineral Waters. Journal of Agricultural and Food Chemistry, 2005, 53, 211-215.	2.4	22
72	Sequential injection chromatographic determination of ambroxol hydrochloride and doxycycline in pharmaceutical preparations. Talanta, 2005, 68, 214-218.	2.9	52

#	Article	IF	Citations
73	Flow-through solâ€“gel optical biosensor for the colorimetric determination of acetazolamide. Analyst, The, 2005, 130, 1190.	1.7	32
74	Determination of gibberellic acid by sequential injection analysis using a potentiometric detector based on Mn(III)-porphyrin with improved characteristics. Journal of the Brazilian Chemical Society, 2004, 15, 701-707.	0.6	8
75	Development of a solâ€“gel optical sensor for analysis of zinc in pharmaceuticals. Sensors and Actuators B: Chemical, 2004, 103, 169-177.	4.0	40
76	Direct determination of copper in urine using a solâ€“gel optical sensor coupled to a multicommutated flow system. Analytical and Bioanalytical Chemistry, 2004, 380, 108-114.	1.9	39
77	Sequential injection chromatographic determination of paracetamol, caffeine, and acetylsalicylic acid in pharmaceutical tablets. Journal of Separation Science, 2004, 27, 529-536.	1.3	76
78	Sequential injection system for simultaneous determination of chloride and iodide by a Granâ€™s plot method. Analytica Chimica Acta, 2004, 505, 161-166.	2.6	15
79	Chloride-selective membrane electrodes and optodes based on an indium(III) porphyrin for the determination of chloride in a sequential injection analysis system. Journal of Pharmaceutical and Biomedical Analysis, 2004, 36, 49-55.	1.4	38
80	Ion selective electrodes for penicillin-G based on Mn(III)TPP-Cl and their application in pharmaceutical formulations control by sequential injection analysis. Journal of Pharmaceutical and Biomedical Analysis, 2004, 36, 701-709.	1.4	33
81	Colorimetric bismuth determination in pharmaceuticals using a xylenol orange solâ€“gel sensor coupled to a multicommutated flow system. Analytica Chimica Acta, 2004, 504, 235-241.	2.6	42
82	Simultaneous determination of pH, chloride and nickel in electroplating baths using sequential injection analysis. Analytica Chimica Acta, 2004, 506, 197-202.	2.6	22
83	Sequential injection analysis of chloride and nitrate in waters with improved accuracy using potentiometric detection. Talanta, 2004, 63, 721-727.	2.9	22
84	Sequential Injection Analysis of Lead Using Time-based Colorimetric Detection and Preconcentration on an Anionic-Exchange Resin. Analytical Sciences, 2004, 20, 679-682.	0.8	11
85	Gran method for end point anticipation in monosegmented flow titration. Journal of the Brazilian Chemical Society, 2004, 15, .	0.6	3
86	Electroimmobilization of MAO into a Polypyrrole Film and Its Utilization for Amperometric Flow Detection of Antidepressant Drugs. Electroanalysis, 2003, 15, 133-138.	1.5	15
87	Amperometric biosensor based on monoamine oxidase (MAO) immobilized in solâ€“gel film for benzydamine determination in pharmaceuticals. Journal of Pharmaceutical and Biomedical Analysis, 2003, 33, 983-990.	1.4	32
88	Flow-injection amperometric determination of dopamine in pharmaceuticals using a polyphenol oxidase biosensor obtained from soursop pulp. Journal of Pharmaceutical and Biomedical Analysis, 2003, 33, 1025-1031.	1.4	48
89	Determination of bopindolol using the flow injection technique coupled with solid phase extraction. Journal of Pharmaceutical and Biomedical Analysis, 2003, 33, 1149-1153.	1.4	6
90	Simple and Inexpensive Flowl-Glutamate Determination Using Pumpkin Tissue. Journal of Agricultural and Food Chemistry, 2003, 51, 6945-6948.	2.4	6

#	Article	IF	Citations
91	Determination of Hydrogen Peroxide by near Infrared Spectroscopy. Journal of Near Infrared Spectroscopy, 2003, 11, 49-53.	0.8	17
92	Determination of Dipyrone in Pharmaceutical Products by Flow Injection Analysis with Potentiometric Detection. Analytical Sciences, 2003, 19, 691-694.	0.8	12
93	DeterminaÃ§Ã£o potenciomÃ©trica em fluxo de cloreto de cetilpiridinio em desinfectantes bucais. Quimica Nova, 2003, 26, 475-478.	0.3	4
94	Monosegemented flow potentiometric titration for the determination of chloride in milk and wine. Journal of the Brazilian Chemical Society, 2003, 14, 259-264.	0.6	13
95	Application of amperometric solâ€“gel biosensor to flow injection determination of glucose. Talanta, 2002, 56, 997-1003.	2.9	28
96	Design and development of a multichannel potentiometer for monitoring an electrode array and its application in flow analysis. Journal of Automated Methods and Management in Chemistry, 2002, 24, 105-110.	0.5	3
97	A sequential injection analysis system for potassium clavulanate determination using two potentiometric detectors. Journal of Pharmaceutical and Biomedical Analysis, 2002, 30, 931-937.	1.4	16
98	Simultaneous potentiometric and fluorimetric determination of diclofenac in a sequential injection analysis system. Analytica Chimica Acta, 2002, 470, 185-194.	2.6	60
99	A flow system with a conventional spectrophotometer for the chemiluminescent determination of lactic acid in yoghurt. Talanta, 2001, 54, 879-885.	2.9	21
100	Clavulanate-selective electrodes â€“ application to pharmaceutical formulations. Fresenius' Journal of Analytical Chemistry, 2001, 371, 400-403.	1.5	4
101	Potentiometric determination of acetylsalicylic acid by sequential injection analysis (SIA) using a tubular salicylate-selective electrode. Journal of Pharmaceutical and Biomedical Analysis, 2001, 24, 1027-1036.	1.4	34
102	Multi-task flow system for potentiometric analysis: its application to the determination of vitamin B6 in pharmaceuticals. Journal of Pharmaceutical and Biomedical Analysis, 2001, 25, 713-720.	1.4	30
103	Determination of Fe(III) and total Fe in wines by sequential injection analysis and flame atomic absorption spectrometry. Analytica Chimica Acta, 2001, 438, 227-233.	2.6	79
104	l-Glutamate determination in food samples by flow-injection analysis. Analytica Chimica Acta, 2001, 448, 207-213.	2.6	23
105	Sequential injection analysis of captopril based on colorimetric and potentiometric detection. Analytica Chimica Acta, 2001, 438, 31-38.	2.6	51
106	Potentiometric determination of urea by sequential injection using Jack bean meal crude extract as a source of urease. Talanta, 2000, 53, 331-336.	2.9	21
107	Sequential injection system for the spectrophotometric determination of reducing sugars in wines. Talanta, 2000, 52, 59-66.	2.9	27
108	Application of natural computation techniques to optimal design of flow injection systems. Analytica Chimica Acta, 1999, 402, 275-283.	2.6	4

#	Article	IF	Citations
109	Monosegmented flow-analysis of serum cholesterol. Il Farmaco, 1999, 54, 51-55.	0.9	8
110	Colorimetric determination of copper in aqueous samples using a flow injection system with a pre-concentration poly(ethylenimine) column. Talanta, 1999, 50, 337-343.	2.9	11
111	Application of Sequential Injection Analysis to the Assay of Lead Retention Characteristics by Poly(vinylpyrrolidone). Trace Analysis of Lead in Waters.. Analytical Sciences, 1999, 15, 991-994.	0.8	18
112	Sequential injection system in flame atomic absorption spectrometry for the determination of calcium and magnesium in mineral waters. Analytica Chimica Acta, 1998, 358, 111-119.	2.6	50
113	Development of a potentiometric procedure for determination of glycerol and 2,3-butanediol in wine by sequential injection analysis. Analytica Chimica Acta, 1998, 366, 193-199.	2.6	23
114	Sample preparation in sequential injection analysis. Spectrophotometric determination of total phosphorus in food samples. Analytica Chimica Acta, 1998, 371, 57-62.	2.6	28
115	Monosegmented flow-analysis of slow enzymatic reactions: Determination of triglycerides in serum. Fresenius' Journal of Analytical Chemistry, 1998, 360, 100-103.	1.5	9
116	Determination of SO2in Wines Using a Flow Injection Analysis System with Potentiometric Detection. Journal of Agricultural and Food Chemistry, 1998, 46, 168-172.	2.4	47
117	Kinetic Determination of Uric Acid in Urine Based on Single-Line Flow-System with Multi-Site Detection.. Analytical Sciences, 1998, 14, 809-813.	0.8	11
118	Colorimetric determination of iron in infant fortified formulas by sequential injection analysis. Fresenius' Journal of Analytical Chemistry, 1997, 357, 1153-1156.	1.5	14
119	Evaluation of natural computation techniques in the modelling and optimization of a sequential injection flow system for colorimetric iron(III) determination. Analytica Chimica Acta, 1997, 348, 143-150.	2.6	20
120	Flow Injection System with Multisite Detection for Spectrophotometric Determination of Calcium and Magnesium in Soil Extracts and Natural Waters. Journal of Agricultural and Food Chemistry, 1996, 44, 165-169.	2.4	15
121	Multicommutation in flow analysis. Part 2. Binary sampling for spectrophotometric determination of nickel, iron and chromium in steel alloys. Analytica Chimica Acta, 1995, 308, 397-405.	2.6	50
122	Multicommutation in flow analysis. Part 3. Spectrophotometric kinetic determination of creatinine in urine exploiting a novel zone sampling approach. Analytica Chimica Acta, 1995, 310, 447-452.	2.6	38
123	An integrated design strategy for flow-injection analysis based on the coupling of mathematical modelling and optimization algorithms. Analytica Chimica Acta, 1995, 310, 289-296.	2.6	14
124	Flow injection analysis of high chloride levels in electroplating baths using on-line dialysis and potentiometric detection. Fresenius' Journal of Analytical Chemistry, 1995, 351, 614-617.	1.5	9
125	Tubular detectors for flow-injection potentiometric determination of tetrafluoroborate in electroplating baths. Analytica Chimica Acta, 1994, 293, 35-41.	2.6	6
126	Multi-site detection in flow analysis. Analytica Chimica Acta, 1993, 276, 121-125.	2.6	29

#	Article	IF	Citations
127	Optimal design of an enzymic reactor for flow injection analysis. Biotechnology Progress, 1993, 9, 473-480.	1.3	7
128	Flow injection system based on the sandwich technique for saving expensive reagents. Clinica Chimica Acta, 1991, 203, 67-76.	0.5	7
129	On-Line fermentation monitoring using flow injection analysis. Biotechnology and Bioengineering, 1990, 36, 647-651.	1.7	36
130	Mathematical modelling of sequential determinations by flow-injection sandwich techniques. Analytica Chimica Acta, 1990, 234, 67-74.	2.6	17
131	Simultaneous determination of total iron and chromium(VI) in wastewater using a flow injection system based on the sandwich technique. Analyst, The, 1989, 114, 1465.	1.7	26