Antonio Gustavo GonzÃ¡lez

List of Publications by Year
in descending order

142	7,506	57631	56606
papers	citations	44	83
		h-index	g-index

146	146	146	6685
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Validation of a simple method for the determination of glyphosate and aminomethylphosphonic acid in human urine by UPLC-MS/MS. Microchemical Journal, 2021, 170, 106760.	2.3	7
2	Classification of Spanish Red Wines Using Artificial Neural Networks with Enological Parameters and Mineral Content. American Journal of Enology and Viticulture, 2018, 69, 167-175.	0.9	6
3	Estimation of dietary intake and target hazard quotients for metals by consumption of wines from the Canary Islands. Food and Chemical Toxicology, 2017, 108, 10-18.	1.8	18
4	Practical Considerations on Indirect Calibration in Analytical Chemistry. , 2017, , .		1
5	A multiple hollow fibre liquid-phase microextraction method for the determination of halogenated solvent residues in olive oil. Analytical and Bioanalytical Chemistry, 2014, 406, 1567-1571.	1.9	3
6	Development and optimization of a method for the determination of Cylindrospermopsin from strains of Aphanizomenon cultures: Intra-laboratory assessment of its accuracy by using validation standards. Talanta, 2012, 100, 356-363.	2.9	24
7	Differentiation of mangoes (Magnifera indica L.) conventional and organically cultivated according to their mineral content by using support vector machines. Talanta, 2012, 97, 325-330.	2.9	10
8	Mineral profile of â€œfinoâ€•wines using inductively coupled plasma optical emission spectrometry methods. Food Chemistry, 2012, 135, 309-313.	4.2	11
9	Cylindrospermopsin determination in water by LCâ€•MS/MS: Optimization and validation of the method and application to real samples. Environmental Toxicology and Chemistry, 2012, 31, 2233-2238.	2.2	45
10	Gradient Scouting in Reversed-Phase HPLC Revisited. Journal of Chemical Education, 2011, 88, 74-76.	1.1	2
11	Improving the quality of African robustas: QTLs for yield- and quality-related traits in Coffea canephora. Tree Genetics and Genomes, 2011, 7, 781-798.	0.6	34
12	Differentiation between microcystin contaminated and uncontaminated fish by determination of unconjugated MCs using an ELISA antiâ€•adda test based on receiverâ€•operating characteristic curves threshold values: Application to <i>Tinca tinca</i> from natural ponds. Environmental Toxicology, 2011, 26, 45-56.	2.1	24
13	DESCRIPTIVE SENSORY ANALYSIS OF WINE VINEGAR: TASTING PROCEDURE AND RELIABILITY OF NEW ATTRIBUTES. Journal of Sensory Studies, 2010, 25, 216-230.	0.8	30
14	Effect of the combined action of Faradaic currents and mobility differences in ac electro-osmosis. Physical Review E, 2010, 81, 016320.	0.8	33
15	Determination of microcystins in biological samples from freshwater fish. International Journal of Environmental Analytical Chemistry, 2010, 90, 1000-1013.	1.8	2
16	Intra-laboratory assessment of method accuracy (trueness and precision) by using validation standards. Talanta, 2010, 82, 1995-1998.	2.9	83
17	Flow Reversal in Traveling-Wave Electrokinetics: An Analysis of Forces Due to Ionic Concentration Gradients. Langmuir, 2009, 25, 4988-4997.	1.6	44
18	Pumping of electrolytes using travelling-wave electro-osmosis: a weakly nonlinear analysis. Microfluidics and Nanofluidics, 2008, 5, 507-515.	1.0	15

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19	Optimization and validation of headspace sorptive extraction for the analysis of volatile compounds in wine vinegars. Journal of Chromatography A, 2008, 1204, 93-103.	1.8	57
20	Determination of Al, Ba, Ca, Cu, Fe, K, Mg, Mn, Na, Sr and Zn in red wine samples by inductively coupled plasma optical emission spectroscopy: Evaluation of preliminary sample treatments. Microchemical Journal, 2008, 88, 56-61.	2.3	59
21	Effect of the difference in ion mobilities on traveling-wave electro-osmosis. , 2008, , .		1
22	Differentiation of two Canary DO red wines according to their metal content from inductively coupled plasma optical emission spectrometry and graphite furnace atomic absorption spectrometry by using Probabilistic Neural Networks. Talanta, 2007, 72, 263-268.	2.9	66
23	Repeated Red Wine Consumption and Changes on Plasma Antioxidant Capacity and Endogenous Antioxidants (Uric Acid and Protein Thiol Groups). Journal of Agricultural and Food Chemistry, 2007, 55, 9713-9718.	2.4	20
24	A practical guide to analytical method validation, including measurement uncertainty and accuracy profiles. TrAC - Trends in Analytical Chemistry, 2007, 26, 227-238.	5.8	482
25	Use and misuse of supervised pattern recognition methods for interpreting compositional data. Journal of Chromatography A, 2007, 1158, 215-225.	1.8	25
26	Differentiation of â€˜two Andalusian DO â€˜finoâ€™ wines according to their metal content from ICP-OES by using supervised pattern recognition methods. Microchemical Journal, 2007, 87, 72-76.	2.3	54
27	Study of mineral profile of Montilla-Moriles â€œfinoâ€• wines using inductively coupled plasma atomic emission spectrometry methods. Journal of Food Composition and Analysis, 2007, 20, 391-395.	1.9	50
28	A linear analysis of the effect of Faradaic currents on traveling-wave electroosmosis. Journal of Colloid and Interface Science, 2007, 309, 323-331.	5.0	42
29	The assessment of electronic balances for accuracy of mass measurements in the analytical laboratory. Accreditation and Quality Assurance, 2007, 12, 21-29.	0.4	13
30	Metallic profiles of Sherry wines using inductively coupled plasma atomic emission spectrometry methods (ICP-AES). Sciences Des Aliments, 2007, 27, 83-92.	0.2	6
31	The Correlation Coefficient: An Overview. Critical Reviews in Analytical Chemistry, 2006, 36, 41-59.	1.8	721
32	Electrothermal flows generated by alternating and rotating electric fields in microsystems. Journal of Fluid Mechanics, 2006, 564, 415.	1.4	142
33	Supervised Pattern Recognition Procedures for Discrimination of Whiskeys from Gas Chromatography/Mass Spectrometry Congener Analysis. Journal of Agricultural and Food Chemistry, 2006, 54, 1982-1989.	2.4	36
34	Accuracy profiles from uncertainty measurements. Talanta, 2006, 70, 896-901.	2.9	42
35	HPLC determination of 2-furaldehyde and 5-hydroxymethyl-2-furaldehyde in alcoholic beverages. Microchemical Journal, 2006, 82, 22-28.	2.3	29
36	The correlation coefficient attacks again. Accreditation and Quality Assurance, 2006, 11, 256-258.	0.4	25

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37	AC electrokinetic pumping of liquids using arrays of microelectrodes. , 2005, , .		6
38	Optimisation of a pressurised liquid extraction method for haloanisoles in cork stoppers. Analytica Chimica Acta, 2005, 540, 17-24.	2.6	36
39	Estimation of the uncertainty of indirect measurements from the propagation of distributions by using the Monte-Carlo method: An overview. Chemometrics and Intelligent Laboratory Systems, 2005, 79, 115-122.	1.8	90
40	Uncertainty evaluation from Monte-Carlo simulations by using Crystal-Ball software. Accreditation and Quality Assurance, 2005, 10, 149-154.	0.4	34
41	Estimation of the uncertainty of mass measurements from in-house calibrated analytical balances. Accreditation and Quality Assurance, 2005, 10, 386-391.	0.4	7
42	Manipulation of bio-particles by means of nonuniform AC electric fields. , 2005, 5839, 138.		0
43	Pumping of liquids with traveling-wave electroosmosis. Journal of Applied Physics, 2005, 97, 084906.	1.1	153
44	Practical digest for evaluating the uncertainty of analytical assays from validation data according to the LGC/VAM protocol. Talanta, 2005, 65, 1022-1030.	2.9	33
45	Classification of aniseed drinks by means of cluster, linear discriminant analysis and soft independent modelling of class analogy based on their Zn, B, Fe, Mg, Ca, Na and Si content. Talanta, 2005, 66, 1350-1354.	2.9	30
46	Enzymatic-spectrophotometric determination of sucrose in coffee beans. Talanta, 2005, 67, 760-766.	2.9	15
47	The effect of size on trace metal levels in raft cultivated mussels (Mytilus galloprovincialis). Science of the Total Environment, 2004, 318, 115-124.	3.9	56
48	Determination of vanadium in mussels by electrothermal atomic absorption spectrometry without chemical modifiers. Analytical and Bioanalytical Chemistry, 2004, 379, 72-76.	1.9	18
49	Study of the mineral profile of Catalonian ?brut? cava using atomic spectrometric methods. European Food Research and Technology, 2004, 218, 448-451.	1.6	13
50	Interspecific Variation of Metal Concentrations in Three Bivalve Mollusks from Galicia. Archives of Environmental Contamination and Toxicology, 2004, 47, 341-51.	2.1	28
51	Determination of Zn, B, Fe, Mg, Ca, Na and Si in anisette samples by inductively coupled plasma atomic emission spectrometry. Talanta, 2004, 63, 297-302.	2.9	19
52	Differentiation of sparkling wines (cava and champagne) according to their mineral content. Talanta, 2004, 63, 377-382.	2.9	61
53	Evaluation of measurement uncertainty in analytical assays by means of Monte-Carlo simulation. Talanta, 2004, 64, 415-422.	2.9	66
54	Characterisation of Moroccan unifloral honeys using multivariate analysis. European Food Research and Technology, 2003, 218, 88-95.	1.6	86

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55	The Use of Catechins and Purine Alkaloids as Descriptors for the Differentiation of Tea Beverages. Mikrochimica Acta, 2003, 142, 79-84.	2.5	9
56	Mineral content and electrical conductivity of the honeys produced in Northwest Morocco and their contribution to the characterisation of unifloral honeys. Journal of the Science of Food and Agriculture, 2003, 83, 637-643.	1.7	80
57	Electrohydrodynamics and dielectrophoresis in microsystems: scaling laws. Journal Physics D: Applied Physics, 2003, 36, 2584-2597.	1.3	587
58	Ion chromatographic determination of some organic acids, chloride and phosphate in coffee and tea. Talanta, 2003, 61, 95-101.	2.9	59
59	Pumping of liquids with ac voltages applied to asymmetric pairs of microelectrodes. Physical Review E, 2003, 67, 056302.	0.8	205
60	Electrothermal Liquid Motion in Microsystems Subjected to Alternating and Rotating Electric Fields. , 2003, , .		1
61	Manipulation of Bio-Particles in Microelectrode Structures by Means of Non-Uniform AC Electric Fields. , 2002, , 165.		2
62	Fluid flow induced by nonuniform ac electric fields in electrolytes on microelectrodes.â€ƒIII.â€ƒObservation of streamlines and numerical simulation. Physical Review E, 2002, 66, 026305.	0.8	330
63	Study of Catechin and Xanthine Tea Profiles as Geographical Tracers. Journal of Agricultural and Food Chemistry, 2002, 50, 1833-1839.	2.4	95
64	Non-linear QSAR modeling by using multilayer perceptron feedforward neural networks trained by back-propagation. Talanta, 2002, 56, 79-90.	2.9	40
65	Potentiometric titrations in acetonitrileâ€"water mixtures: evaluation of aqueous ionisation constant of ketoprofen. Talanta, 2002, 56, 769-775.	2.9	27
66	Multivariate characterisation of beers according to their mineral content. Talanta, 2002, 57, 45-52.	2.9	91
67	Multi-element analysis of tea beverages by inductively coupled plasma atomic emission spectrometry. Food Chemistry, 2002, 76, 483-489.	4.2	111
68	Differentiation of Tea (Camellia sinensis) Varieties and Their Geographical Origin According to their Metal Content. Journal of Agricultural and Food Chemistry, 2001, 49, 4775-4779.	2.4	229
69	Pattern recognition procedures for differentiation of Green, Black and Oolong teas according to their metal content from inductively coupled plasma atomic emission spectrometry. Talanta, 2001, 53, 1249-1257.	2.9	88
70	Differentiation of Spanish brandies according to their metal content. Talanta, 2001, 54, 53-59.	2.9	50
71	Fatty acid profiles as discriminant parameters for coffee varieties differentiation. Talanta, 2001, 54, 291-297.	2.9	113
72	Holmes, a program for performing Procrustes Transformations. Chemometrics and Intelligent Laboratory Systems, 2001, 57, 133-137.	1.8	18

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73	Electrothermally induced fluid flow on microelectrodes. Journal of Electrostatics, 2001, 53, 71-87.	1.0	251
74	Comment on â€œTheoretical Model of Electrode Polarization and AC Electroosmotic Fluid Flow in Planar Electrode Arraysâ€• Journal of Colloid and Interface Science, 2001, 243, 265-266.	5.0	4
75	Simltaneous determination of organic acids and sweeteners in soft drinks by ion-exclusion HPLC. Journal of Separation Science, 2001, 24, 879-884.	1.3	6
76	HPLC analysis of tocopherols and triglycerides in coffee and their use as authentication parameters. Food Chemistry, 2001, 73, 93-101.	4.2	121
77	Supercritical carbon dioxide extraction of lipids from Eucalyptus globulus wood. Journal of Proteomics, 2000, 43, 345-351.	2.4	17
78	HPLC determination of catechins and caffeine in tea. Differentiation of green, black and instant teas. Analyst, The, 2000, 125, 421-425.	1.7	161
79	Electric field induced fluid flow on microelectrodes: the effect of illumination. Journal Physics D: Applied Physics, 2000, 33, L13-L17.	1.3	103
80	Metallic profiles of Sherry brandies. Sciences Des Aliments, 2000, 20, 433-440.	0.2	12
81	Characterization of arabica and robusta roasted coffee varieties and mixture resolution according to their metal content. Food Chemistry, 1999, 66, 365-370.	4.2	75
82	Authentication and differentiation of irish whiskeys by higher-alcohol congener analysis. Analytica Chimica Acta, 1999, 381, 257-264.	2.6	37
83	Supercritical-carbon-dioxide extraction of lipids from a contaminated soil. Journal of Chromatography A, 1999, 845, 365-371.	1.8	7
84	Determination of the arabica/robusta composition of roasted coffee according to their sterolic content. Analyst, The, 1999, 124, 999-1002.	1.7	37
85	Intra-laboratory testing of method accuracy from recovery assays. Talanta, 1999, 48, 729-736.	2.9	301
86	Performing procrustes discriminant analysis with HOLMES. Talanta, 1999, 49, 189-197.	2.9	20
87	Computational program for evaluating and optimizing responseâ€"surface curves based on uniform shell designs. Talanta, 1999, 49, 433-439.	2.9	17
88	Simultaneous determination of caffeine and non-steroidal anti-inflammatory drugs in pharmaceutical formulations and blood plasma by reversed-phase HPLC from linear gradient elution. Talanta, 1999, 49, 453-459.	2.9	71
89	Determination of phosphorous oxoanions in pharmaceuticals using non-suppressed ion chromatography. Analusis - European Journal of Analytical Chemistry, 1999, 27, 97-100.	0.4	6
90	Characterization of green coffee varieties according to their metal content. Analytica Chimica Acta, 1998, 358, 177-183.	2.6	68

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91	Two level factorial experimental designs based on multiple linear regression models: a tutorial digest illustrated by case studies. Analytica Chimica Acta, 1998, 360, 227-241.	2.6	54
92	Adaptation of linear discriminant analysis to second level-pattern recognition classification. Analytica Chimica Acta, 1998, 363, 89-95.	2.6	20
93	Authentication of green coffee varieties according to their sterolic profile. Analytica Chimica Acta, 1998, 370, 131-139.	2.6	60
94	Ion-exclusion chromatographic determination of organic acids in vinegars. Journal of Chromatography A, 1998, 822, 45-51.	1.8	53
95	Discrimination between arabica and robusta green coffee varieties according to their chemical composition. Talanta, 1998, 46, 1259-1264.	2.9	91
96	Nonlinear electrohydrodynamics of free surfaces. IEEE Transactions on Dielectrics and Electrical Insulation, 1998, 5, 334-343.	1.8	51
97	Inorganic Indicators of the Origin of Edible Salts Marketed in Spain from a Chemometric Approach. Journal of Food Protection, 1998, 61, 891-895.	0.8	17
98	Spectrophotometric determination of total procyanidins in wine vinegars. Talanta, 1997, 44, 119-123.	2.9	20
99	Multivariate characterization of wine vinegars from the south of Spain according to their metallic content. Talanta, 1997, 45, 379-386.	2.9	62
100	Determination of trigonelline in green and roasted coffee from single column ionic chromatography. Fresenius' Journal of Analytical Chemistry, 1997, 357, 357-358.	1.5	14
101	Solubility prediction of caffeine in aqueous N,N-dimethylformamide mixtures using the Extended Hildebrand Solubility Approach. International Journal of Pharmaceutics, 1997, 156, 239-244.	2.6	30
102	Ionization constants of water insoluble arylpropionic acids in aqueous N,N-dimethylformamide mixtures from potentiometric pH-titrations. Analytica Chimica Acta, 1997, 356, 253-258.	2.6	23
103	Determination of Phosphate in Cola Beverages Using Nonsuppressed Ion Chromatography: An Experiment Introducing Ion Chromatography for Quantitative Analysis. Journal of Chemical Education, 1996, 73, 1174.	1.1	24
104	Classification of tea samples by their chemical composition using discriminant analysis. Talanta, 1996, 43, 415-419.	2.9	44
105	Application of pattern recognition to the discrimination of roasted coffees. Analytica Chimica Acta, 1996, 320, 191-197.	2.6	33
106	Kamlet-Taft solvatochromic parameters of aqueous binary mixtures oftert-butyl alcohol and ethyleneglycol. Journal of Solution Chemistry, 1996, 25, 289-293.	0.6	23
107	Advantages of target factor analysis against multiple linear regression methods for testing model equations in linear free energy relationships. Analytica Chimica Acta, 1995, 312, 295-306.	2.6	16
108	Statistical assessment of a new criterion for selecting the number of factors in factor analysis. Analytica Chimica Acta, 1995, 314, 251-252.	2.6	6

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109	Hydrophobicity of $beta;-adrenoceptor blocking agents: Study of correlations between retention in reversed-phase HPLC systems and octanol-water partition constants. International Journal of Pharmaceutics, 1995, 120, 215-220.	2.6	5
110	Determination of Î²-adrenoceptor blocking agents in tablets using reversed-phase high-performance liquid chromatography. International Journal of Pharmaceutics, 1995, 123, 149-151.	2.6	6
111	Kortewegâ€"de Vriesâ€"Burgers equation for surface waves in nonideal conducting liquids. Physical Review E, 1994, 49, 2935-2940.	0.8	18
112	Solvent effects on the dissociation of aliphatic carboxylic acids in water-N,N-dimethylformamide mixtures: Correlation between acidity constants and solvatochromic parameters. Journal of Solution Chemistry, 1994, 23, 1101-1109.	0.6	50
113	Computational method for evaluating and optimizing response surface curves based on mixture designs. Analytica Chimica Acta, 1994, 293, 205-210.	2.6	3
114	NEUTIT: a computer program for evaluating equivalence volumes and ionization constants in polar non-aqueous or partially aqueous media. Analytica Chimica Acta, 1994, 298, 203-207.	2.6	2
115	Holmes: a program for target factor analysis. Analytica Chimica Acta, 1994, 297, 473.	2.6	8
116	holmes: a program for target factor analysis. Analytica Chimica Acta, 1994, 295, 119-125.	2.6	17
117	Computational program for evaluating and optimizing response-surface curves based on central composite designs. Analytica Chimica Acta, 1994, 298, 65-73.	2.6	8
118	Solubility of theophylline in aqueous N,N-dimethylformamide mixtures. International Journal of Pharmaceutics, 1994, 108, 149-154.	2.6	6
119	Resolution of acid strength in non-aqueous acid-base titrations. Analytica Chimica Acta, 1993, 281, 179-183.	2.6	6
120	Optimization of pharmaceutical formulations based on response-surface experimental designs. International Journal of Pharmaceutics, 1993, 97, 149-159.	2.6	30
121	Application of the extended Hildebrand solubility parameter treatment for optimizing reversed-phase high-performance liquid chromatography determination of pharmaceuticals. International Journal of Pharmaceutics, 1993, 93, 183-188.	2.6	8
122	Practical digest for the evaluation of acidity constants of drugs by reversed-phase high performance liquid chromatography. International Journal of Pharmaceutics, 1993, 91, R1-R5.	2.6	7
123	Computational program for validating analytical methods. Fresenius' Journal of Analytical Chemistry, 1993, 346, 885-887.	1.5	11
124	Estimation of pH and autoprotolysis constants in mixtures of aliphatic amides with water: Medium effect on the 4-aminoazobenzene system. Talanta, 1993, 40, 479-484.	2.9	40
125	Interfacial electrohydrodynamic instability: The Kath and Hoburg model revisited. Physics of Fluids A, Fluid Dynamics, 1992, 4, 1307-1309.	1.6	11
126	Correction factors for the glass electrode revisited. Talanta, 1992, 39, 91.	2.9	23

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127	An iterative algorithm for consistent and unbiased estimation of linear regression parameters when there are errors in both the x and y variables. Computers & Chemistry, 1992, 16, 25-27.	1.2	8
128	Evaluation of ionization constants of drugs in aqueous organic mixtures from reversed phase high-performance liquid chromatography. International Journal of Pharmaceutics, 1992, 84, R1-R4.	2.6	1
129	Computational method for unbiased evaluation of equivalence volumes and ionization constants from potentiometric acid-base titrations. Analytica Chimica Acta, 1992, 257, 29-33.	2.6	3
130	The feasibility and accuracy of nonaqueous acid-base titrations. Microchemical Journal, 1991, 44, 243-248.	2.3	2
131	Spectrophotometric determination of acidity constants of compounds with unsuitable absorption features. International Journal of Pharmaceutics, 1991, 72, 193-197.	2.6	3
132	Drug solubility prediction by using solvatochromic parameters. International Journal of Pharmaceutics, 1991, 75, R13-R16.	2.6	2
133	Evaluation of acidity constants for sparingly soluble compounds from fluorescence measurements. International Journal of Pharmaceutics, 1991, 67, R1-R4.	2.6	1
134	Acid-base behaviour of some substituted azo dyes in aqueous N,N-dimethylformamide mixtures. Analytica Chimica Acta, 1991, 246, 429-434.	2.6	16
135	Evaluation of acidity constants in dioxaneâ€"water mixtures by spectrophotometric and potentiometric pH titrations. Analytica Chimica Acta, 1991, 251, 321-325.	2.6	13
136	Evaluation of solvent effects on the dissociation of aliphatic carboxylic acids in aqueousN,N-dimethylformamide mixtures according to the scaled particle theory. Journal of Physical Organic Chemistry, 1991, 4, 87-95.	0.9	11
137	Solvent effects on the dissociation of aliphatic carboxylic acids in waterâ€" N,N -dimethylformamide mixtures. Analytica Chimica Acta, 1990, 228, 301-306.	2.6	22
138	Solvent effects on the dissociation of bromopyridinium ions in N,N-dimethylformamide mixtures by electrochemical measurements. Analytica Chimica Acta, 1989, 224, 109-117.	2.6	7
139	Some observations on fitting a straight line to data. Microchemical Journal, 1989, 40, 216-225.	2.3	26
140	Metallic contaminants in Andalusian vinegars. Molecular Nutrition and Food Research, 1988, 32, 743-748.	0.0	13
141	A computational method for approximate evaluation of ionization constants from potentiometric data. Talanta, 1988, 35, 249-252.	2.9	0
142	A Practical Way to ISO/GUM Measurement Uncertainty for Analytical Assays Including In-House Validation Data. , 0, , .		1