

Manel del Valle

List of Publications by Year in descending order

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222
papers

7,316
citations

44069
48
h-index

85541
71
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224
all docs

224
docs citations

224
times ranked

5823
citing authors

#	ARTICLE	IF	CITATIONS
1	New materials for electrochemical sensing VI: Carbon nanotubes. TrAC - Trends in Analytical Chemistry, 2005, 24, 826-838.	11.4	626
2	Use of nanomaterials for impedimetric DNA sensors: A review. Analytica Chimica Acta, 2010, 678, 7-17.	5.4	163
3	Potentiometric bioelectronic tongue for the analysis of urea and alkaline ions in clinical samples. Biosensors and Bioelectronics, 2007, 22, 2171-2178.	10.1	133
4	Determination of phenolic compounds by a polyphenol oxidase amperometric biosensor and artificial neural network analysis. Biosensors and Bioelectronics, 2005, 20, 1668-1673.	10.1	117
5	Application of a potentiometric electronic tongue as a classification tool in food analysis. Talanta, 2005, 66, 1303-1309.	5.5	110
6	Electrochemical behavior of rigid carbon nanotube composite electrodes. Journal of Electroanalytical Chemistry, 2008, 619-620, 117-124.	3.8	104
7	A review of the use of the potentiometric electronic tongue in the monitoring of environmental systems. Environmental Modelling and Software, 2010, 25, 1023-1030.	4.5	99
8	Crown ether-modified electrodes for the simultaneous stripping voltammetric determination of Cd(II), Pb(II) and Cu(II). Talanta, 2015, 138, 130-137.	5.5	98
9	Electronic Tongues Employing Electrochemical Sensors. Electroanalysis, 2010, 22, 1539-1555.	2.9	97
10	Determination of total polyphenol index in wines employing a voltammetric electronic tongue. Analytica Chimica Acta, 2012, 732, 172-179.	5.4	97
11	Hybrid electronic tongue based on multisensor data fusion for discrimination of beers. Sensors and Actuators B: Chemical, 2013, 177, 989-996.	7.8	97
12	Application of the wavelet transform coupled with artificial neural networks for quantification purposes in a voltammetric electronic tongue. Sensors and Actuators B: Chemical, 2006, 113, 487-499.	7.8	81
13	An electronic tongue using potentiometric all-solid-state PVC-membrane sensors for the simultaneous quantification of ammonium and potassium ions in water. Analytical and Bioanalytical Chemistry, 2003, 377, 248-256.	3.7	80
14	Molecularly imprinted polymers towards electrochemical sensors and electronic tongues. Analytical and Bioanalytical Chemistry, 2021, 413, 6117-6140.	3.7	80
15	Lead(II) ion selective electrodes with PVC membranes based on two bis-thioureas as ionophores: 1,3-bis(Nâ€²-benzoylthioureido)benzene and 1,3-bis(Nâ€²-furoylthioureido)benzene. Journal of Hazardous Materials, 2010, 181, 140-146.	12.4	78
16	Rigid carbon composites: a new transducing material for label-free electrochemical genosensing. Journal of Electroanalytical Chemistry, 2004, 567, 29-37.	3.8	77
17	Genomagnetic assay based on label-free electrochemical detection using magneto-composite electrodes. Sensors and Actuators B: Chemical, 2006, 114, 591-598.	7.8	76
18	Comparison of methods for the processing of voltammetric electronic tongues data. Mikrochimica Acta, 2013, 180, 319-330.	5.0	75

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19	Application of a potentiometric electronic tongue to fertigation strategy in greenhouse cultivation. Computers and Electronics in Agriculture, 2007, 57, 12-22.	7.7	71
20	A flow-injection electronic tongue based on potentiometric sensors for the determination of nitrate in the presence of chloride. Sensors and Actuators B: Chemical, 2004, 101, 72-80.	7.8	70
21	Development and application of an electronic tongue for detection and monitoring of nitrate, nitrite and ammonium levels in waters. Microchemical Journal, 2013, 110, 273-279.	4.5	70
22	Determination of Anionic Surfactants Employing Potentiometric Sensors—A Review. Critical Reviews in Analytical Chemistry, 2005, 35, 15-29.	3.5	69
23	A novel electrochemical aptamer–antibody sandwich assay for lysozyme detection. Analyst, The, 2015, 140, 4148-4153.	3.5	69
24	Impedimetric genosensors for the detection of DNA hybridization. Analytical and Bioanalytical Chemistry, 2006, 385, 1195-1201.	3.7	67
25	Resolution of phenolic antioxidant mixtures employing a voltammetric bio-electronic tongue. Analyst, The, 2012, 137, 349-356.	3.5	67
26	Automated resolution of dichlorvos and methylparaoxon pesticide mixtures employing a Flow Injection system with an inhibition electronic tongue. Biosensors and Bioelectronics, 2009, 24, 1103-1108.	10.1	66
27	Voltammetric Electronic Tongue in the Analysis of Cava Wines. Electroanalysis, 2011, 23, 72-78.	2.9	66
28	Bioelectronic tongue for the simultaneous determination of urea, creatinine and alkaline ions in clinical samples. Biosensors and Bioelectronics, 2008, 23, 795-802.	10.1	64
29	Signal amplification for impedimetric genosensing using gold-streptavidin nanoparticles. Electrochimica Acta, 2008, 53, 4022-4029.	5.2	63
30	Glucose Biosensor Based on Carbon Nanotube Epoxy Composites. Journal of Nanoscience and Nanotechnology, 2005, 5, 1694-1698.	0.9	62
31	Impedimetric genosensors employing COOH-modified carbon nanotube screen-printed electrodes. Biosensors and Bioelectronics, 2009, 24, 2885-2891.	10.1	59
32	Simultaneous identification and quantification of nitro-containing explosives by advanced chemometric data treatment of cyclic voltammetry at screen-printed electrodes. Talanta, 2013, 107, 270-276.	5.5	58
33	A voltammetric electronic tongue made of modified epoxy-graphite electrodes for the qualitative analysis of wine. Mikrochimica Acta, 2010, 169, 261-268.	5.0	56
34	BioElectronic Tongue for the quantification of total polyphenol content in wine. Talanta, 2012, 99, 544-551.	5.5	56
35	Label free aptasensor for Lysozyme detection: A comparison of the analytical performance of two aptamers. Bioelectrochemistry, 2015, 105, 72-77.	4.6	56
36	DNA hybridization detection by electrochemical impedance spectroscopy using interdigitated gold nanoelectrodes. Mikrochimica Acta, 2010, 170, 275-281.	5.0	55

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37	Enhanced electrochemical response of carbon quantum dot modified electrodes. <i>Talanta</i> , 2018, 178, 679-685.	5.5	55
38	Determination of Ammonium Ion Employing an Electronic Tongue Based on Potentiometric Sensors. <i>Analytical Letters</i> , 2003, 36, 2893-2908.	1.8	54
39	Beer classification by means of a potentiometric electronic tongue. <i>Food Chemistry</i> , 2013, 141, 2533-2540.	8.2	53
40	Evaluation of red wines antioxidant capacity by means of a voltammetric e-tongue with an optimized sensor array. <i>Electrochimica Acta</i> , 2014, 120, 180-186.	5.2	53
41	Sensitive stripping voltammetry of heavy metals by using a composite sensor based on a built-in bismuth precursor. <i>Analyst, The</i> , 2005, 130, 971.	3.5	52
42	A flow injection voltammetric electronic tongue applied to paper mill industrial waters. <i>Sensors and Actuators B: Chemical</i> , 2006, 115, 390-395.	7.8	52
43	Instrumental measurement of wine sensory descriptors using a voltammetric electronic tongue. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 1053-1059.	7.8	52
44	Automated SIA e-Tongue Employing a Voltammetric Biosensor Array for the Simultaneous Determination of Glucose and Ascorbic Acid. <i>Electroanalysis</i> , 2006, 18, 82-88.	2.9	51
45	Sequential injection system with higher dimensional electrochemical sensor signalsPart 2. Potentiometric e-tongue for the determination of alkaline ions. <i>Talanta</i> , 2005, 66, 1197-1206.	5.5	50
46	Data Compression for a Voltammetric Electronic Tongue Modelled with Artificial Neural Networks. <i>Analytical Letters</i> , 2005, 38, 2189-2206.	1.8	50
47	Label-free selective impedimetric detection of Cu ²⁺ ions using catalytic DNA. <i>Analyst, The</i> , 2013, 138, 1995.	3.5	50
48	Electronic tongues in flow analysis. <i>Analytica Chimica Acta</i> , 2007, 600, 90-96.	5.4	49
49	Impedimetric detection of influenza A (H1N1) DNA sequence using carbon nanotubes platform and gold nanoparticles amplification. <i>Analyst, The</i> , 2010, 135, 1765.	3.5	49
50	Sequential injection system with higher dimensional electrochemical sensor signalsPart 1. Voltammetric e-tongue for the determination of oxidizable compounds. <i>Talanta</i> , 2005, 66, 1187-1196.	5.5	48
51	Electronic tongues to assess wine sensory descriptors. <i>Talanta</i> , 2017, 162, 218-224.	5.5	48
52	Renewable Protein A modified graphite-epoxy composite for electrochemical immunosensing. <i>Journal of Immunological Methods</i> , 2004, 286, 35-46.	1.4	47
53	A sequential injection electronic tongue employing the transient response from potentiometric sensors for anion multidetermination. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 1186-1194.	3.7	47
54	Use of Sequential Injection Analysis to construct a potentiometric electronic tongue: Application to the multidetermination of heavy metals. <i>Sensors and Actuators B: Chemical</i> , 2010, 146, 420-426.	7.8	47

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55	Simultaneous determination of phenolic compounds by means of an automated voltammetric "electronic tongue". Analytical and Bioanalytical Chemistry, 2005, 382, 471-476.	3.7	46
56	Automatic sequential injection analysis electronic tongue with integrated reference electrode for the determination of ascorbic acid, uric acid and paracetamol. Mikrochimica Acta, 2007, 157, 1-6.	5.0	45
57	Sensor Arrays and Electronic Tongue Systems. International Journal of Electrochemistry, 2012, 2012, 1-11.	2.4	45
58	Independent comparison study of six different electronic tongues applied for pharmaceutical analysis. Journal of Pharmaceutical and Biomedical Analysis, 2015, 114, 321-329.	2.8	45
59	Nutrient Solution Monitoring in Greenhouse Cultivation Employing a Potentiometric Electronic Tongue. Journal of Agricultural and Food Chemistry, 2008, 56, 1810-1817.	5.2	44
60	Array of peptide-modified electrodes for the simultaneous determination of Pb(II), Cd(II) and Zn(II). Talanta, 2014, 125, 159-166.	5.5	44
61	Electronic Tongue Using an Enzyme Inhibition Biosensor Array for the Resolution of Pesticide Mixtures. Electroanalysis, 2008, 20, 54-60.	2.9	42
62	Electrochemical immunosensor for the diagnosis of celiac disease. Analytical Biochemistry, 2009, 388, 229-234.	2.4	42
63	Use of an Electronic Tongue Based on All-Solid-State Potentiometric Sensors for the Quantitation of Alkaline Ions. Electroanalysis, 2005, 17, 348-355.	2.9	41
64	EIS multianalyte sensing with an automated SIA system "An electronic tongue employing the impedimetric signal. Talanta, 2007, 72, 774-779.	5.5	41
65	Computational design of molecularly imprinted polymer for direct detection of melamine in milk. Separation Science and Technology, 2017, 52, 1441-1453.	2.5	41
66	Bioinspired Sensor Systems. Sensors, 2011, 11, 10180-10186.	3.8	40
67	Determination of Trace Levels of Anionic Surfactants in River Water and Wastewater by a Flow Injection Analysis System with On-Line Preconcentration and Potentiometric Detection. Analytical Chemistry, 1999, 71, 3684-3691.	6.5	39
68	Label-Free Aptasensor for Lysozyme Detection Using Electrochemical Impedance Spectroscopy. Sensors, 2018, 18, 354.	3.8	39
69	Flow-through tubular ion-selective electrodes responsive to anionic surfactants for flow-injection analysis. Analytica Chimica Acta, 1995, 308, 115-121.	5.4	38
70	Integrated Waveguide Absorbance Optode for Chemical Sensing. Analytical Chemistry, 1999, 71, 5037-5044.	6.5	38
71	Label-free impedimetric aptasensor based on epoxy-graphite electrode for the recognition of cytochrome c. Sensors and Actuators B: Chemical, 2014, 191, 860-865.	7.8	38
72	Sandwich Techniques in flow injection analysis. Analytica Chimica Acta, 1987, 199, 191-196.	5.4	37

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73	Use of sequential injection analysis to construct an electronic-tongue. <i>Analytica Chimica Acta</i> , 2007, 600, 97-104.	5.4	37
74	A Solid-Contact Ion Selective Electrode for Copper(II) Using a Succinimide Derivative as Ionophore. <i>Sensors</i> , 2013, 13, 4367-4377.	3.8	37
75	Voltammetric sensor for theophylline using sol-gel immobilized molecularly imprinted polymer particles. <i>Mikrochimica Acta</i> , 2015, 182, 933-942.	5.0	37
76	Application of the avidin-biotin interaction to immobilize DNA in the development of electrochemical impedance genosensors. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 851-861.	3.7	36
77	Application of an all-solid-state ion-selective electrode for the automated titration of anionic surfactants. <i>Analyst</i> , 1994, 119, 2319-2322.	3.5	35
78	Construction and development of ion-selective electrodes responsive to anionic surfactants. <i>Sensors and Actuators B: Chemical</i> , 1993, 15, 179-183.	7.8	34
79	Assessment of Individual Polyphenol Content in Beer by Means of a Voltammetric BioElectronic Tongue. <i>Electroanalysis</i> , 2013, 25, 68-76.	2.9	34
80	Resolution of galactose, glucose, xylose and mannose in sugarcane bagasse employing a voltammetric electronic tongue formed by metals oxy-hydroxide/MWCNT modified electrodes. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 645-653.	7.8	34
81	Voltammetric BioElectronic Tongue for the analysis of phenolic compounds in ros� cava wines. <i>Food Research International</i> , 2014, 55, 455-461.	6.2	33
82	Aptamer-antibody sandwich assay for cytochrome c employing an MWCNT platform and electrochemical impedance. <i>Mikrochimica Acta</i> , 2015, 182, 2045-2053.	5.0	33
83	Cava Wine Authentication Employing a Voltammetric Electronic Tongue. <i>Electroanalysis</i> , 2014, 26, 1504-1512.	2.9	32
84	Signal amplification for thrombin impedimetric aptasensor: Sandwich protocol and use of gold-streptavidin nanoparticles. <i>Biosensors and Bioelectronics</i> , 2014, 54, 408-414.	10.1	32
85	Simultaneous Voltammetric Determination of Heavy Metals by Use of Crown Ether-modified Electrodes and Chemometrics. <i>Electroanalysis</i> , 2016, 28, 663-670.	2.9	32
86	Voltammetric electronic tongue to identify Brett character in wines. On-site quantification of its ethylphenol metabolites. <i>Talanta</i> , 2018, 179, 70-74.	5.5	32
87	Sandwich techniques in flow-injection analysis. <i>Analytica Chimica Acta</i> , 1989, 219, 345-350.	5.4	31
88	Characterization of an ion-selective polypyrrole coating and application to the joint determination of potassium, sodium and ammonium by electrochemical impedance spectroscopy and partial least squares method. <i>Analytica Chimica Acta</i> , 2007, 597, 231-237.	5.4	31
89	Bioelectronic tongue using MIP sensors for the resolution of volatile phenolic compounds. <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 665-671.	7.8	31
90	Development of a new ion-selective field-effect transistor sensor for anionic surfactants: Application to potentiometric titrations. <i>Analytica Chimica Acta</i> , 1999, 382, 157-164.	5.4	30

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91	Voltammetric Electronic Tongue Based on Carbon Paste Electrodes Modified with Biochar for Phenolic Compounds Stripping Detection. <i>Electroanalysis</i> , 2019, 31, 2238-2245.	2.9	30
92	Integration of a glucose biosensor based on an epoxy-graphite-TTF-TCNQ-GOD biocomposite into a FIA system. <i>Sensors and Actuators B: Chemical</i> , 2005, 107, 742-748.	7.8	29
93	Virtual Instrument for an Automated Potentiometric e-Tongue Employing the SIA Technique. <i>Sensors</i> , 2006, 6, 19-29.	3.8	28
94	A Reusable Impedimetric Aptasensor for Detection of Thrombin Employing a Graphite-Epoxy Composite Electrode. <i>Sensors</i> , 2012, 12, 3037-3048.	3.8	28
95	Multivariate calibration model from overlapping voltammetric signals employing wavelet neural networks. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2006, 83, 169-179.	3.5	27
96	Impedimetric detection of double-tagged PCR products using novel amplification procedures based on gold nanoparticles and Protein G. <i>Analyst</i> , 2009, 134, 602-608.	3.5	26
97	Impedimetric genosensing of DNA polymorphism correlated to cystic fibrosis: A comparison among different protocols and electrode surfaces. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1245-1251.	10.1	26
98	Spectrophotometric determination of low levels of anionic surfactants in water by solvent extraction in a flow injection system. <i>Analyst</i> , 1988, 113, 1677-1681.	3.5	25
99	Determination of polyethoxylated non-ionic surfactants using potentiometric flow injection systems.. <i>Analytica Chimica Acta</i> , 2002, 454, 217-227.	5.4	25
100	Electronic tongue for the determination of alkaline ions using a screen-printed potentiometric sensor array. <i>Mikrochimica Acta</i> , 2008, 163, 81-88.	5.0	25
101	Wavelet neural networks to resolve the overlapping signal in the voltammetric determination of phenolic compounds. <i>Talanta</i> , 2008, 76, 373-381.	5.5	25
102	Rapid determination of chemical oxygen demand using a focused microwave heating system featuring temperature control. <i>Analytica Chimica Acta</i> , 2003, 491, 99-109.	5.4	24
103	Enhancing the electrochemical response of myoglobin with carbon nanotube electrodes. <i>Nanotechnology</i> , 2009, 20, 355502.	2.6	24
104	Potentiometric electronic tongue-flow injection analysis system for the monitoring of heavy metal biosorption processes. <i>Talanta</i> , 2012, 93, 285-292.	5.5	24
105	pH-ISFET with NMOS technology. <i>Electroanalysis</i> , 1991, 3, 355-360.	2.9	23
106	Use of pulse transient response as input information for an automated SIA electronic tongue. <i>Sensors and Actuators B: Chemical</i> , 2008, 131, 77-84.	7.8	23
107	Potentiometric Electronic Tongue to Resolve Mixtures of Sulfide and Perchlorate Anions. <i>Sensors</i> , 2011, 11, 3214-3226.	3.8	23
108	Simultaneous Determination of Zn(II), Cu(II), Cd(II) and Pb(II) in Soil Samples Employing an Array of Potentiometric Sensors and an Artificial Neural Network Model. <i>Electroanalysis</i> , 2012, 24, 2249-2256.	2.9	23

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109	Real time protein recognition in a liquid-gated carbon nanotube field-effect transistor modified with aptamers. <i>Nanoscale</i> , 2012, 4, 5917.	5.6	23
110	Integrating molecularly imprinted polymer beads in graphite-epoxy electrodes for the voltammetric biosensing of histamine in wines. <i>Talanta</i> , 2020, 208, 120348.	5.5	23
111	Modification of electrodes with N-and S-doped carbon dots. Evaluation of the electrochemical response. <i>Talanta</i> , 2020, 212, 120806.	5.5	23
112	Flow-through pH-ISFET as detector in the determination of ammonia. <i>Analytica Chimica Acta</i> , 1990, 231, 53-58.	5.4	22
113	Automated electronic tongue based on potentiometric sensors for the determination of a trinary anionic surfactant mixture. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008, 46, 213-218.	2.8	22
114	Simultaneous Voltammetric Determination of Acetaminophen, Ascorbic Acid and Uric Acid by Use of Integrated Array of Screen-Printed Electrodes and Chemometric Tools. <i>Sensors</i> , 2019, 19, 3286.	3.8	21
115	Evaluation of natural computation techniques in the modelling and optimization of a sequential injection flow system for colorimetric iron(III) determination. <i>Analytica Chimica Acta</i> , 1997, 348, 143-150.	5.4	20
116	Photocurable ISFET for anionic surfactants. Monitoring of photodegradation processes. <i>Talanta</i> , 2001, 54, 893-902.	5.5	20
117	EIS study of potentiometric membranes selective to Ca ²⁺ employing the new ionophoric antibiotic tetronasin. <i>Electrochimica Acta</i> , 2006, 51, 1569-1575.	5.2	20
118	Quantitative Analysis of Active Pharmaceutical Ingredients (APIs) Using a Potentiometric Electronic Tongue in a SIA Flow System. <i>Electroanalysis</i> , 2016, 28, 626-632.	2.9	20
119	A novel electronic tongue using electropolymerized molecularly imprinted polymers for the simultaneous determination of active pharmaceutical ingredients. <i>Biosensors and Bioelectronics</i> , 2022, 198, 113807.	10.1	20
120	Comparison of the Powell and simplex methods in the optimization of flow-injection systems. Simulation on modelled experimental surfaces and experimental optimizations. <i>Analytica Chimica Acta</i> , 1990, 241, 31-42.	5.4	19
121	Flow-through pH-ISFET + reference-ISE as integrated detector in automated FIA determinations. <i>Sensors and Actuators B: Chemical</i> , 1992, 7, 555-560.	7.8	19
122	Urea impedimetric biosensor based on polymer degradation onto interdigitated electrodes. <i>Sensors and Actuators B: Chemical</i> , 2006, 118, 84-89.	7.8	19
123	Use of a solid-phase extraction disk module in a FI system for the automated preconcentration and determination of surfactants using potentiometric detection. <i>Microchemical Journal</i> , 2006, 83, 48-54.	4.5	19
124	Carbon nanofiber vs. carbon microparticles as modifiers of glassy carbon and gold electrodes applied in electrochemical sensing of NADH. <i>Talanta</i> , 2007, 74, 398-404.	5.5	19
125	Remote environmental monitoring employing a potentiometric electronic tongue. <i>International Journal of Environmental Analytical Chemistry</i> , 2008, 88, 103-117.	3.3	19
126	A comparison of four protocols for the immobilization of an aptamer on graphite composite electrodes. <i>Mikrochimica Acta</i> , 2014, 181, 355-363.	5.0	19

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127	Electronic tongue for nitro and peroxide explosive sensing. <i>Talanta</i> , 2016, 153, 340-346.	5.5	19
128	A novel bio-electronic tongue using different cellobiose dehydrogenases to resolve mixtures of various sugars and interfering analytes. <i>Biosensors and Bioelectronics</i> , 2016, 79, 515-521.	10.1	19
129	Potentiometric flow injection system for the determination of polyethoxylate nonionic surfactants using tubular ion-selective electrodes. <i>Analytica Chimica Acta</i> , 2001, 438, 305-313.	5.4	18
130	Automated SIA System Using an Array of Potentiometric Sensors for Determining Alkaline-Earth Ions in Water. <i>Electroanalysis</i> , 2007, 19, 644-651.	2.9	18
131	Inhibition equivalency factors for microcystin variants in recombinant and wild-type protein phosphatase 1 and 2A assays. <i>Environmental Science and Pollution Research</i> , 2014, 21, 10652-10660.	5.3	18
132	Mathematical modelling of sequential determinations by flow-injection sandwich techniques. <i>Analytica Chimica Acta</i> , 1990, 234, 67-74.	5.4	17
133	Carbon Nanotubes and Electrochemistry. <i>Zeitschrift Fur Physikalische Chemie</i> , 2007, 221, 1161-1173.	2.8	17
134	Application of an electronic tongue towards the analysis of brandies. <i>Analytical Methods</i> , 2013, 5, 1120.	2.7	17
135	Use of a Bioelectronic Tongue for the Monitoring of the Photodegradation of Phenolic Compounds. <i>Electroanalysis</i> , 2015, 27, 225-233.	2.9	17
136	Analysis of Amino Acid Mixtures by Voltammetric Electronic Tongues and Artificial Neural Networks. <i>Electroanalysis</i> , 2016, 28, 1894-1900.	2.9	17
137	Three different signal amplification strategies for the impedimetric sandwich detection of thrombin. <i>Analytica Chimica Acta</i> , 2016, 912, 117-124.	5.4	17
138	A Voltammetric Electronic Tongue for the Resolution of Ternary Nitrophenol Mixtures. <i>Sensors</i> , 2018, 18, 216.	3.8	17
139	Improved Sensing of Capsaicin with TiO ₂ Nanoparticles Modified Epoxy Graphite Electrode. <i>Electroanalysis</i> , 2020, 32, 230-237.	2.9	17
140	Simultaneous Optimization of Variables in Fia Systems by Means of the Simplex Method. <i>Analytical Letters</i> , 1987, 20, 1247-1263.	1.8	16
141	Rapid Field Identification of Subjects Involved in Firearm-Related Crimes Based on Electroanalysis Coupled with Advanced Chemometric Data Treatment. <i>Analytical Chemistry</i> , 2012, 84, 10306-10314.	6.5	16
142	Voltammetric Electronic Tongue for the Qualitative Analysis of Beers. <i>Electroanalysis</i> , 2013, 25, 1635-1644.	2.9	16
143	Discrimination of Soils and Assessment of Soil Fertility Using Information from an Ion Selective Electrodes Array and Artificial Neural Networks. <i>Clean - Soil, Air, Water</i> , 2014, 42, 1808-1815.	1.1	16
144	Enhanced electrocatalytic effects of Pd particles immobilized on GC surface on the nitrite oxidation reactions. <i>Journal of Electroanalytical Chemistry</i> , 2019, 839, 1-8.	3.8	16

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145	Voltammetric Electronic Tongue for the Simultaneous Determination of Three Benzodiazepines. <i>Sensors</i> , 2019, 19, 5002.	3.8	16
146	Dual-Genic Hybridization Sensor Employing Electrochemical Impedance Spectroscopy. <i>Electroanalysis</i> , 2008, 20, 941-948.	2.9	15
147	SIA system employing the transient response from a potentiometric sensor array—Correction of a saline matrix effect. <i>Talanta</i> , 2010, 82, 931-938.	5.5	15
148	Resolution of amino acid mixtures by an array of potentiometric sensors based on boronic acid derivative in a SIA flow system. <i>Sensors and Actuators B: Chemical</i> , 2013, 189, 179-186.	7.8	15
149	Evaluation of microwave digestion for chemical oxygen demand determination. <i>Environmental Technology (United Kingdom)</i> , 1990, 11, 1087-1092.	2.2	14
150	Mathematical modelling of two-analyte sequential determinations by flow-injection sandwich techniques. <i>Analytica Chimica Acta</i> , 1991, 254, 177-187.	5.4	14
151	An integrated design strategy for flow-injection analysis based on the coupling of mathematical modelling and optimization algorithms. <i>Analytica Chimica Acta</i> , 1995, 310, 289-296.	5.4	14
152	Graphene electrode platform for impedimetric aptasensing. <i>Electrochimica Acta</i> , 2017, 229, 458-466.	5.2	14
153	A new amperometric bienzymatic biosensor based on biocomposites for the determination of gluconic acid in wines. <i>Talanta</i> , 2011, 85, 1207-1212.	5.5	13
154	A simple approach for DNA detection on carbon nanotube microelectrode arrays. <i>Sensors and Actuators B: Chemical</i> , 2012, 162, 120-127.	7.8	13
155	Dummy Molecularly Imprinted Polymers Using DNP as a Template Molecule for Explosive Sensing and Nitroaromatic Compound Discrimination. <i>Chemosensors</i> , 2021, 9, 255.	3.6	13
156	Flow-through pH-ISFET as detector in automated determinations. <i>Electroanalysis</i> , 1991, 3, 349-354.	2.9	12
157	Automated analytical biosystem for urea monitoring. <i>Analytica Chimica Acta</i> , 1996, 327, 243-251.	5.4	12
158	All-solid-state potentiometric sensors sensitive to nonionic surfactants based on ionophores containing ethoxylate units. <i>Talanta</i> , 2001, 54, 811-820.	5.5	12
159	Simultaneous titration of ternary alkaline-earth mixtures employing a potentiometric electronic tongue. <i>Microchemical Journal</i> , 2007, 87, 27-34.	4.5	12
160	Bioelectronic Tongues Employing Electrochemical Biosensors. <i>Bioanalytical Reviews</i> , 2016, , 143-202.	0.2	12
161	Avoiding nonsense in electronic taste sensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 121, 115675.	11.4	12
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