

Manel del Valle

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212
papers

6,126
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44
h-index

64
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224
ext. papers

6,586
ext. citations

5.2
avg, IF

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L-index

#	Paper	IF	Citations
212	New materials for electrochemical sensing VI: Carbon nanotubes. <i>TrAC - Trends in Analytical Chemistry</i> , 2005 , 24, 826-838	14.6	556
211	Use of nanomaterials for impedimetric DNA sensors: a review. <i>Analytica Chimica Acta</i> , 2010 , 678, 7-17	6.6	151
210	Potentiometric bioelectronic tongue for the analysis of urea and alkaline ions in clinical samples. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 2171-8	11.8	111
209	Determination of phenolic compounds by a polyphenol oxidase amperometric biosensor and artificial neural network analysis. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 1668-73	11.8	102
208	Application of a potentiometric electronic tongue as a classification tool in food analysis. <i>Talanta</i> , 2005 , 66, 1303-9	6.2	99
207	Electrochemical behavior of rigid carbon nanotube composite electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2008 , 619-620, 117-124	4.1	91
206	Determination of total polyphenol index in wines employing a voltammetric electronic tongue. <i>Analytica Chimica Acta</i> , 2012 , 732, 172-9	6.6	88
205	Hybrid electronic tongue based on multisensor data fusion for discrimination of beers. <i>Sensors and Actuators B: Chemical</i> , 2013 , 177, 989-996	8.5	85
204	A review of the use of the potentiometric electronic tongue in the monitoring of environmental systems. <i>Environmental Modelling and Software</i> , 2010 , 25, 1023-1030	5.2	83
203	Crown ether-modified electrodes for the simultaneous stripping voltammetric determination of Cd(II), Pb(II) and Cu(II). <i>Talanta</i> , 2015 , 138, 130-137	6.2	75
202	Rigid carbon composites: a new transducing material for label-free electrochemical genosensing. <i>Journal of Electroanalytical Chemistry</i> , 2004 , 567, 29-37	4.1	68
201	Lead(II) ion selective electrodes with PVC membranes based on two bis-thioureas as ionophores: 1,3-bis(NSbenzoylthioureido)benzene and 1,3-bis(NSfuroylthioureido)benzene. <i>Journal of Hazardous Materials</i> , 2010 , 181, 140-6	12.8	67
200	Genomagnetic assay based on label-free electrochemical detection using magneto-composite electrodes. <i>Sensors and Actuators B: Chemical</i> , 2006 , 114, 591-598	8.5	67
199	Application of the wavelet transform coupled with artificial neural networks for quantification purposes in a voltammetric electronic tongue. <i>Sensors and Actuators B: Chemical</i> , 2006 , 113, 487-499	8.5	67
198	Impedimetric genosensors for the detection of DNA hybridization. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 385, 1195-201	4.4	64
197	An electronic tongue using potentiometric all-solid-state PVC-membrane sensors for the simultaneous quantification of ammonium and potassium ions in water. <i>Analytical and Bioanalytical Chemistry</i> , 2003 , 377, 248-56	4.4	64
196	Voltammetric Electronic Tongue in the Analysis of Cava Wines. <i>Electroanalysis</i> , 2011 , 23, 72-78	3	61

195	Resolution of phenolic antioxidant mixtures employing a voltammetric bio-electronic tongue. <i>Analyst, The</i> , 2012 , 137, 349-56	5	60
194	Automated resolution of dichlorvos and methylparaoxon pesticide mixtures employing a Flow Injection system with an inhibition electronic tongue. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 1103-8	11.8	60
193	Application of a potentiometric electronic tongue to fertigation strategy in greenhouse cultivation. <i>Computers and Electronics in Agriculture</i> , 2007 , 57, 12-22	6.5	60
192	Bioelectronic tongue for the simultaneous determination of urea, creatinine and alkaline ions in clinical samples. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 795-802	11.8	59
191	Signal amplification for impedimetric genosensing using gold-streptavidin nanoparticles. <i>Electrochimica Acta</i> , 2008 , 53, 4022-4029	6.7	59
190	A flow-injection electronic tongue based on potentiometric sensors for the determination of nitrate in the presence of chloride. <i>Sensors and Actuators B: Chemical</i> , 2004 , 101, 72-80	8.5	59
189	A novel electrochemical aptamer-antibody sandwich assay for lysozyme detection. <i>Analyst, The</i> , 2015 , 140, 4148-53	5	58
188	Glucose biosensor based on carbon nanotube epoxy composites. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 1694-8	1.3	57
187	Development and application of an electronic tongue for detection and monitoring of nitrate, nitrite and ammonium levels in waters. <i>Microchemical Journal</i> , 2013 , 110, 273-279	4.8	56
186	Comparison of methods for the processing of voltammetric electronic tongues data. <i>Mikrochimica Acta</i> , 2013 , 180, 319-330	5.8	55
185	Impedimetric genosensors employing COOH-modified carbon nanotube screen-printed electrodes. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 2885-91	11.8	53
184	Simultaneous identification and quantification of nitro-containing explosives by advanced chemometric data treatment of cyclic voltammetry at screen-printed electrodes. <i>Talanta</i> , 2013 , 107, 270-6	6.2	51
183	DNA hybridization detection by electrochemical impedance spectroscopy using interdigitated gold nanoelectrodes. <i>Mikrochimica Acta</i> , 2010 , 170, 275-281	5.8	50
182	Determination of Anionic Surfactants Employing Potentiometric Sensors—A Review. <i>Critical Reviews in Analytical Chemistry</i> , 2005 , 35, 15-29	5.2	50
181	BioElectronic Tongue for the quantification of total polyphenol content in wine. <i>Talanta</i> , 2012 , 99, 544-561	5.2	49
180	A voltammetric electronic tongue made of modified epoxy-graphite electrodes for the qualitative analysis of wine. <i>Mikrochimica Acta</i> , 2010 , 169, 261-268	5.8	49
179	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	3	49
178	Determination of Ammonium Ion Employing an Electronic Tongue Based on Potentiometric Sensors. <i>Analytical Letters</i> , 2003 , 36, 2893-2908	2.2	49

177	Beer classification by means of a potentiometric electronic tongue. <i>Food Chemistry</i> , 2013 , 141, 2533-40	8.5	48
176	Label free aptasensor for Lysozyme detection: A comparison of the analytical performance of two aptamers. <i>Bioelectrochemistry</i> , 2015 , 105, 72-7	5.6	47
175	Sensitive stripping voltammetry of heavy metals by using a composite sensor based on a built-in bismuth precursor. <i>Analyst, The</i> , 2005 , 130, 971-6	5	47
174	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	6.7	46
173	Label-free selective impedimetric detection of Cu ²⁺ ions using catalytic DNA. <i>Analyst, The</i> , 2013 , 138, 1995-9	5	45
172	Impedimetric detection of influenza A (H1N1) DNA sequence using carbon nanotubes platform and gold nanoparticles amplification. <i>Analyst, The</i> , 2010 , 135, 1765-72	5	45
171	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	8.5	45
170	Electronic tongues in flow analysis. <i>Analytica Chimica Acta</i> , 2007 , 600, 90-6	6.6	45
169	Simultaneous determination of phenolic compounds by means of an automated voltammetric "electronic tongue". <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 382, 471-6	4.4	45
168	Instrumental measurement of wine sensory descriptors using a voltammetric electronic tongue. <i>Sensors and Actuators B: Chemical</i> , 2015 , 207, 1053-1059	8.5	44
167	Sequential injection system with higher dimensional electrochemical sensor signals Part 2. Potentiometric e-tongue for the determination of alkaline ions. <i>Talanta</i> , 2005 , 66, 1197-206	6.2	44
166	A flow injection voltammetric electronic tongue applied to paper mill industrial waters. <i>Sensors and Actuators B: Chemical</i> , 2006 , 115, 390-395	8.5	44
165	Data Compression for a Voltammetric Electronic Tongue Modelled with Artificial Neural Networks. <i>Analytical Letters</i> , 2005 , 38, 2189-2206	2.2	43
164	Renewable Protein A modified graphite-epoxy composite for electrochemical immunosensing. <i>Journal of Immunological Methods</i> , 2004 , 286, 35-46	2.5	42
163	Sequential injection system with higher dimensional electrochemical sensor signals Part 1. Voltammetric e-tongue for the determination of oxidizable compounds. <i>Talanta</i> , 2005 , 66, 1187-96	6.2	41
162	Electrochemical immunosensor for the diagnosis of celiac disease. <i>Analytical Biochemistry</i> , 2009 , 388, 229-34	3.1	39
161	A sequential injection electronic tongue employing the transient response from potentiometric sensors for anion multidetermination. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 385, 1186-94	4.4	39
160	Enhanced electrochemical response of carbon quantum dot modified electrodes. <i>Talanta</i> , 2018 , 178, 679-685	6.2	38

159	Independent comparison study of six different electronic tongues applied for pharmaceutical analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 114, 321-9	3.5	38
158	EIS multianalyte sensing with an automated SIA system-An electronic tongue employing the impedimetric signal. <i>Talanta</i> , 2007 , 72, 774-9	6.2	38
157	Array of peptide-modified electrodes for the simultaneous determination of Pb(II), Cd(II) and Zn(II). <i>Talanta</i> , 2014 , 125, 159-66	6.2	37
156	Sensor Arrays and Electronic Tongue Systems. <i>International Journal of Electrochemistry</i> , 2012 , 2012, 1-112.4		37
155	Nutrient solution monitoring in greenhouse cultivation employing a potentiometric electronic tongue. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 1810-7	5.7	37
154	Use of an Electronic Tongue Based on All-Solid-State Potentiometric Sensors for the Quantitation of Alkaline Ions. <i>Electroanalysis</i> , 2005 , 17, 348-355	3	37
153	Label-free impedimetric aptasensor based on epoxy-graphite electrode for the recognition of cytochrome c. <i>Sensors and Actuators B: Chemical</i> , 2014 , 191, 860-865	8.5	36
152	Electronic tongues to assess wine sensory descriptors. <i>Talanta</i> , 2017 , 162, 218-224	6.2	36
151	Electronic Tongues Employing Electrochemical Sensors. <i>Electroanalysis</i> , 2010 , 22, n/a-n/a	3	36
150	Automatic sequential injection analysis electronic tongue with integrated reference electrode for the determination of ascorbic acid, uric acid and paracetamol. <i>Mikrochimica Acta</i> , 2007 , 157, 1-6	5.8	36
149	Use of sequential injection analysis to construct an electronic-tongue: application to multidetermination employing the transient response of a potentiometric sensor array. <i>Analytica Chimica Acta</i> , 2007 , 600, 97-104	6.6	34
148	Electronic Tongue Using an Enzyme Inhibition Biosensor Array for the Resolution of Pesticide Mixtures. <i>Electroanalysis</i> , 2008 , 20, 54-60	3	34
147	Integrated Waveguide Absorbance Optode for Chemical Sensing. <i>Analytical Chemistry</i> , 1999 , 71, 5037-5044	7.4	34
146	Computational design of molecularly imprinted polymer for direct detection of melamine in milk. <i>Separation Science and Technology</i> , 2017 , 52, 1441-1453	2.5	33
145	Application of the avidin-biotin interaction to immobilize DNA in the development of electrochemical impedance genosensors. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 389, 851-61	4.4	33
144	Voltammetric BioElectronic Tongue for the analysis of phenolic compounds in rosłtava wines. <i>Food Research International</i> , 2014 , 55, 455-461	7	32
143	Voltammetric sensor for theophylline using sol-gel immobilized molecularly imprinted polymer particles. <i>Mikrochimica Acta</i> , 2015 , 182, 933-942	5.8	32
142	A solid-contact ion selective electrode for copper(II) using a succinimide derivative as ionophore. <i>Sensors</i> , 2013 , 13, 4367-77	3.8	32

141	Construction and development of ion-selective electrodes responsive to anionic surfactants. <i>Sensors and Actuators B: Chemical</i> , 1993 , 15, 179-183	8.5	32
140	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	8.5	31
139	Aptamer-antibody sandwich assay for cytochrome c employing an MWCNT platform and electrochemical impedance. <i>Mikrochimica Acta</i> , 2015 , 182, 2045-2053	5.8	31
138	Label-Free Aptasensor for Lysozyme Detection Using Electrochemical Impedance Spectroscopy. <i>Sensors</i> , 2018 , 18,	3.8	31
137	Signal amplification for thrombin impedimetric aptasensor: sandwich protocol and use of gold-streptavidin nanoparticles. <i>Biosensors and Bioelectronics</i> , 2014 , 54, 408-14	11.8	31
136	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. <i>Analytical Chemistry</i> , 1999 , 71, 3684-91	7.8	30
135	Sandwich Techniques in flow injection analysis. <i>Analytica Chimica Acta</i> , 1987 , 199, 191-196	6.6	30
134	Cava Wine Authentication Employing a Voltammetric Electronic Tongue. <i>Electroanalysis</i> , 2014 , 26, 1504-1512	3	29
133	Assessment of Individual Polyphenol Content in Beer by Means of a Voltammetric BioElectronic Tongue. <i>Electroanalysis</i> , 2013 , 25, 68-76	3	29
132	Flow-through tubular ion-selective electrodes responsive to anionic surfactants for flow-injection analysis. <i>Analytica Chimica Acta</i> , 1995 , 308, 115-121	6.6	29
131	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, 231-7	6.6	28
130	Simultaneous Voltammetric Determination of Heavy Metals by Use of Crown Ether-modified Electrodes and Chemometrics. <i>Electroanalysis</i> , 2016 , 28, 663-670	3	28
129	Virtual Instrument for an Automated Potentiometric e-Tongue Employing the SIA Technique. <i>Sensors</i> , 2006 , 6, 19-29	3.8	27
128	A reusable impedimetric aptasensor for detection of thrombin employing a graphite-epoxy composite electrode. <i>Sensors</i> , 2012 , 12, 3037-48	3.8	25
127	Impedimetric detection of double-tagged PCR products using novel amplification procedures based on gold nanoparticles and Protein G. <i>Analyst, The</i> , 2009 , 134, 602-8	5	25
126	Impedimetric genosensing of DNA polymorphism correlated to cystic fibrosis: a comparison among different protocols and electrode surfaces. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1245-51	11.8	25
125	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	6.6	25
124	Voltammetric electronic tongue to identify Brett character in wines. On-site quantification of its ethylphenol metabolites. <i>Talanta</i> , 2018 , 179, 70-74	6.2	24

123	Multivariate calibration model from overlapping voltammetric signals employing wavelet neural networks. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2006 , 83, 169-179	3.8	24
122	Application of an all-solid-state ion-selective electrode for the automated titration of anionic surfactants. <i>Analyst, The</i> , 1994 , 119, 2319-2322	5	24
121	Wavelet neural networks to resolve the overlapping signal in the voltammetric determination of phenolic compounds. <i>Talanta</i> , 2008 , 76, 373-81	6.2	23
120	Integration of a glucose biosensor based on an epoxy-graphite-TTF/CNQ-GOD biocomposite into a FIA system. <i>Sensors and Actuators B: Chemical</i> , 2005 , 107, 742-748	8.5	23
119	Real time protein recognition in a liquid-gated carbon nanotube field-effect transistor modified with aptamers. <i>Nanoscale</i> , 2012 , 4, 5917-23	7.7	22
118	Electronic tongue for the determination of alkaline ions using a screen-printed potentiometric sensor array. <i>Mikrochimica Acta</i> , 2008 , 163, 81-88	5.8	22
117	Determination of polyethoxylated non-ionic surfactants using potentiometric flow injection systems.: Improvement of the detection limits employing an on-line pre-concentration stage. <i>Analytica Chimica Acta</i> , 2002 , 454, 217-227	6.6	22
116	Sandwich techniques in flow-injection analysis. <i>Analytica Chimica Acta</i> , 1989 , 219, 345-350	6.6	22
115	Potentiometric electronic tongue to resolve mixtures of sulfide and perchlorate anions. <i>Sensors</i> , 2011 , 11, 3214-26	3.8	21
114	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, 213-8	3.5	21
113	Bioelectronic tongue using MIP sensors for the resolution of volatile phenolic compounds. <i>Sensors and Actuators B: Chemical</i> , 2018 , 258, 665-671	8.5	21
112	Potentiometric electronic tongue-flow injection analysis system for the monitoring of heavy metal biosorption processes. <i>Talanta</i> , 2012 , 93, 285-92	6.2	20
111	pH-ISFET with NMOS technology. <i>Electroanalysis</i> , 1991 , 3, 355-360	3	20
110	Molecularly imprinted polymers'- towards electrochemical sensors and electronic tongues. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 6117-6140	4.4	20
109	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, 515-21	11.8	19
108	A comparison of four protocols for the immobilization of an aptamer on graphite composite electrodes. <i>Mikrochimica Acta</i> , 2014 , 181, 355-363	5.8	19
107	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	8.5	19
106	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	6.2	19

105	Rapid determination of chemical oxygen demand using a focused microwave heating system featuring temperature control. <i>Analytica Chimica Acta</i> , 2003 , 491, 99-109	6.6	19
104	Spectrophotometric determination of low levels of anionic surfactants in water by solvent extraction in a flow injection system. <i>Analyst, The</i> , 1988 , 113, 1677-1681	5	19
103	Quantitative Analysis of Active Pharmaceutical Ingredients (APIs) Using a Potentiometric Electronic Tongue in a SIA Flow System. <i>Electroanalysis</i> , 2016 , 28, 626-632	3	19
102	Voltammetric Electronic Tongue Based on Carbon Paste Electrodes Modified with Biochar for Phenolic Compounds Stripping Detection. <i>Electroanalysis</i> , 2019 , 31, 2238-2245	3	18
101	Enhancing the electrochemical response of myoglobin with carbon nanotube electrodes. <i>Nanotechnology</i> , 2009 , 20, 355502	3.4	18
100	Flow-through pH-ISFET as detector in the determination of ammonia. <i>Analytica Chimica Acta</i> , 1990 , 231, 53-58	6.6	18
99	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,	3.8	17
98	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	6.6	17
97	EIS study of potentiometric membranes selective to Ca ²⁺ employing the new ionophoric antibiotic tetronasin. <i>Electrochimica Acta</i> , 2006 , 51, 1569-1575	6.7	17
96	Urea impedimetric biosensor based on polymer degradation onto interdigitated electrodes. <i>Sensors and Actuators B: Chemical</i> , 2006 , 118, 84-89	8.5	17
95	Modification of electrodes with N-and S-doped carbon dots. Evaluation of the electrochemical response. <i>Talanta</i> , 2020 , 212, 120806	6.2	16
94	Three different signal amplification strategies for the impedimetric sandwich detection of thrombin. <i>Analytica Chimica Acta</i> , 2016 , 912, 117-24	6.6	16
93	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	3	16
92	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	4.8	16
91	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	6.6	16
90	Application of an electronic tongue towards the analysis of brandies. <i>Analytical Methods</i> , 2013 , 5, 1120	3.2	15
89	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	1.6	15
88	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, 10306-14	7.8	15

87	SIA system employing the transient response from a potentiometric sensor array--Correction of a saline matrix effect. <i>Talanta</i> , 2010 , 82, 931-8	6.2	15
86	Remote environmental monitoring employing a potentiometric electronic tongue. <i>International Journal of Environmental Analytical Chemistry</i> , 2008 , 88, 103-117	1.8	15
85	Carbon Nanotubes and Electrochemistry. <i>Zeitschrift Fur Physikalische Chemie</i> , 2007 , 221, 1161-1173	3.1	15
84	Automated SIA System Using an Array of Potentiometric Sensors for Determining Alkaline-Earth Ions in Water. <i>Electroanalysis</i> , 2007 , 19, 644-651	3	15
83	Photocurable ISFET for anionic surfactants. Monitoring of photodegradation processes. <i>Talanta</i> , 2001 , 54, 893-902	6.2	15
82	Flow-through pH-ISFET + reference-ISE as integrated detector in automated FIA determinations. <i>Sensors and Actuators B: Chemical</i> , 1992 , 7, 555-560	8.5	15
81	Mathematical modelling of sequential determinations by flow-injection sandwich techniques. <i>Analytica Chimica Acta</i> , 1990 , 234, 67-74	6.6	15
80	Graphene electrode platform for impedimetric aptasensing. <i>Electrochimica Acta</i> , 2017 , 229, 458-466	6.7	14
79	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, 10652-60	5.1	14
78	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	8.5	14
77	Use of a Bioelectronic Tongue for the Monitoring of the Photodegradation of Phenolic Compounds. <i>Electroanalysis</i> , 2015 , 27, 225-233	3	14
76	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	6.6	14
75	Evaluation of microwave digestion for chemical oxygen demand determination. <i>Environmental Technology (United Kingdom)</i> , 1990 , 11, 1087-1092	2.6	14
74	Integrating molecularly imprinted polymer beads in graphite-epoxy electrodes for the voltammetric biosensing of histamine in wines. <i>Talanta</i> , 2020 , 208, 120348	6.2	14
73	Electronic tongue for nitro and peroxide explosive sensing. <i>Talanta</i> , 2016 , 153, 340-6	6.2	13
72	A Voltammetric Electronic Tongue for the Resolution of Ternary Nitrophenol Mixtures. <i>Sensors</i> , 2018 , 18,	3.8	13
71	Dual-Genic Hybridization Sensor Employing Electrochemical Impedance Spectroscopy. <i>Electroanalysis</i> , 2008 , 20, 941-948	3	13
70	Mathematical modelling of two-analyte sequential determinations by flow-injection sandwich techniques. <i>Analytica Chimica Acta</i> , 1991 , 254, 177-187	6.6	13

69	Voltammetric Electronic Tongue for the Qualitative Analysis of Beers. <i>Electroanalysis</i> , 2013 , 25, 1635-1644		12
68	A new amperometric bienzymatic biosensor based on biocomposites for the determination of gluconic acid in wines. <i>Talanta</i> , 2011 , 85, 1207-12	6.2	12
67	Simultaneous titration of ternary alkaline earth mixtures employing a potentiometric electronic tongue. <i>Microchemical Journal</i> , 2007 , 87, 27-34	4.8	12
66	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	6.6	12
65	Analysis of Amino Acid Mixtures by Voltammetric Electronic Tongues and Artificial Neural Networks. <i>Electroanalysis</i> , 2016 , 28, 1894-1900	3	12
64	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	4.1	12
63	A simple approach for DNA detection on carbon nanotube microelectrode arrays. <i>Sensors and Actuators B: Chemical</i> , 2012 , 162, 120-127	8.5	11
62	Simultaneous and automated monitoring of the multimetal biosorption processes by potentiometric sensor array and artificial neural network. <i>Talanta</i> , 2013 , 114, 17-24	6.2	11
61	Bioelectronic Tongues Employing Electrochemical Biosensors. <i>Bioanalytical Reviews</i> , 2016 , 143-202	1	10
60	All-solid-state potentiometric sensors sensitive to nonionic surfactants based on ionophores containing ethoxylate units. <i>Talanta</i> , 2001 , 54, 811-20	6.2	10
59	Flow-through pH-ISFET as detector in automated determinations. <i>Electroanalysis</i> , 1991 , 3, 349-354	3	10
58	Resolution of Heavy Metal Mixtures from Highly Overlapped ASV Voltammograms Employing a Wavelet Neural Network. <i>Electroanalysis</i> , 2009 , 21, 445-451	3	9
57	Resolution of binary mixtures of microorganisms using electrochemical impedance spectroscopy and artificial neural networks. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 964-8	11.8	9
56	Bidimensional planar micro-optics for optochemical absorbance sensing. <i>Optics Letters</i> , 1998 , 23, 225-7	3	9
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