

M AsunciÃ³n Alonso-Lomillo

List of Publications by Year in descending order

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71
papers

2,851
citations

159585

30
h-index

175258

52
g-index

71
all docs

71
docs citations

71
times ranked

3271
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent developments in the field of screen-printed electrodes and their related applications. <i>Talanta</i> , 2007, 73, 202-219.	5.5	541
2	Hydrogenase-Coated Carbon Nanotubes for Efficient H ₂ Oxidation. <i>Nano Letters</i> , 2007, 7, 1603-1608.	9.1	177
3	Screen-printed biosensors in microbiology; a review. <i>Talanta</i> , 2010, 82, 1629-1636.	5.5	136
4	Disposable biosensors for determination of biogenic amines. <i>Analytica Chimica Acta</i> , 2010, 665, 26-31.	5.4	112
5	Early determination of cystic fibrosis by electrochemical chloride quantification in sweat. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1788-1791.	10.1	92
6	Sensitive enzyme-biosensor based on screen-printed electrodes for Ochratoxin A. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1333-1337.	10.1	71
7	Dual enzymatic biosensor for simultaneous amperometric determination of histamine and putrescine. <i>Food Chemistry</i> , 2016, 190, 818-823.	8.2	68
8	CYP450 2B4 covalently attached to carbon and gold screen printed electrodes by diazonium salt and thiols monolayers. <i>Analytica Chimica Acta</i> , 2009, 633, 51-56.	5.4	67
9	Sensitive and selective cocaine electrochemical detection using disposable sensors. <i>Analytica Chimica Acta</i> , 2014, 834, 30-36.	5.4	60
10	Resolution of ternary mixtures of rifampicin, isoniazid and pyrazinamide by differential pulse polarography and partial least squares method. <i>Analytica Chimica Acta</i> , 2001, 449, 167-177.	5.4	57
11	Development of urease based amperometric biosensors for the inhibitive determination of Hg (II). <i>Talanta</i> , 2009, 79, 1306-1310.	5.5	54
12	Biosensor based on platinum chips for glucose determination. <i>Analytica Chimica Acta</i> , 2005, 547, 209-214.	5.4	51
13	HRP-based biosensor for monitoring rifampicin. <i>Biosensors and Bioelectronics</i> , 2003, 18, 1165-1171.	10.1	50
14	Simultaneous determination of cadaverine and putrescine using a disposable monoamine oxidase based biosensor. <i>Talanta</i> , 2013, 117, 405-411.	5.5	50
15	Determination of ascorbic acid in serum samples by screen-printed carbon electrodes modified with gold nanoparticles. <i>Talanta</i> , 2017, 174, 733-737.	5.5	45
16	Screen-printed biosensors for glucose determination in grape juice. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1517-1521.	10.1	44
17	Electrochemical determination of levetiracetam by screen-printed based biosensors. <i>Bioelectrochemistry</i> , 2009, 74, 306-309.	4.6	43
18	CYP450 biosensors based on screen-printed carbon electrodes for the determination of cocaine. <i>Analytica Chimica Acta</i> , 2011, 685, 15-20.	5.4	42

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19	Horseradish peroxidase-screen printed biosensors for determination of Ochratoxin A. <i>Analytica Chimica Acta</i> , 2011, 688, 49-53.	5.4	42
20	EIS multianalyte sensing with an automated SIA system—An electronic tongue employing the impedimetric signal. <i>Talanta</i> , 2007, 72, 774-779.	5.5	41
21	Optimisation procedure for the inhibitive determination of chromium(III) using an amperometric tyrosinase biosensor. <i>Analytica Chimica Acta</i> , 2004, 521, 215-221.	5.4	40
22	Electrochemical determination of cocaine using screen-printed cytochrome P450 2B4 based biosensors. <i>Talanta</i> , 2013, 105, 131-134.	5.5	40
23	Sulfite oxidase biosensors based on tetrathiafulvalene modified screen-printed carbon electrodes for sulfite determination in wine. <i>Analytica Chimica Acta</i> , 2014, 812, 41-44.	5.4	39
24	Tyrosinase based biosensor for the electrochemical determination of sulfamethoxazole. <i>Sensors and Actuators B: Chemical</i> , 2016, 227, 48-53.	7.8	39
25	Horseradish peroxidase covalent grafting onto screen-printed carbon electrodes for levetiracetam chronoamperometric determination. <i>Analytical Biochemistry</i> , 2009, 395, 86-90.	2.4	37
26	Determination of gallium by adsorptive stripping voltammetry. <i>Talanta</i> , 2004, 62, 457-462.	5.5	31
27	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
28	Disposable amperometric biosensor for the determination of tyramine using plasma amino oxidase. <i>Mikrochimica Acta</i> , 2013, 180, 253-259.	5.0	31
29	Screen-printed biosensor based on the inhibition of the acetylcholinesterase activity for the determination of codeine. <i>Talanta</i> , 2013, 111, 8-12.	5.5	30
30	Molecularly imprinted polypyrrole based electrochemical sensor for selective determination of 4-ethylphenol. <i>Talanta</i> , 2020, 207, 120351.	5.5	30
31	CYP450 biosensors based on gold chips for antiepileptic drugs determination. <i>Biosensors and Bioelectronics</i> , 2008, 23, 1733-1737.	10.1	29
32	Fabrication and characterization of disposable sensors and biosensors for detection of formaldehyde. <i>Talanta</i> , 2011, 86, 324-328.	5.5	29
33	Gluconic acid determination in wine by electrochemical biosensing. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 858-862.	7.8	28
34	Speciation of chromium using chronoamperometric biosensors based on screen-printed electrodes. <i>Analytica Chimica Acta</i> , 2014, 833, 15-21.	5.4	28
35	Resolution of quaternary mixtures of cadaverine, histamine, putrescine and tyramine by the square wave voltammetry and partial least squares method. <i>Talanta</i> , 2015, 143, 97-100.	5.5	27
36	Determination of aluminium using different techniques based on the Al(III)-morin complex. <i>Talanta</i> , 2019, 196, 131-136.	5.5	27

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37	Optimization of the Experimental Parameters in the Determination of Rifampicin by Adsorptive Stripping Voltammetry. <i>Electroanalysis</i> , 2002, 14, 634.	2.9	26
38	Optimization of a cyclodextrin-based sensor for rifampicin monitoring. <i>Electrochimica Acta</i> , 2005, 50, 1807-1811.	5.2	26
39	Amperometric determination of sulfite using screen-printed electrodes modified with metallic nanoparticles. <i>Mikrochimica Acta</i> , 2013, 180, 1351-1355.	5.0	26
40	Application of an optimization procedure in adsorptive stripping voltammetry for the determination of trace contaminant metals in aqueous medium. <i>Analytica Chimica Acta</i> , 2004, 511, 223-229.	5.4	25
41	A screen-printed disposable biosensor for selective determination of putrescine. <i>Mikrochimica Acta</i> , 2013, 180, 687-693.	5.0	25
42	Malate quinone oxidoreductase biosensors based on tetrathiafulvalene and gold nanoparticles modified screen-printed carbon electrodes for malic acid determination in wine. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 971-975.	7.8	23
43	Application of an Optimization Procedure in Adsorptive Stripping Voltammetry for the Determination of Chromium with Ammonium Pyrrolidine Dithiocarbamate. <i>Electroanalysis</i> , 2002, 14, 1083-1089.	2.9	21
44	Determination of Metals Based on Electrochemical Biosensors. <i>Critical Reviews in Environmental Science and Technology</i> , 2013, 43, 1042-1073.	12.8	21
45	Optimization of the experimental parameters in the determination of rifamycin SV by adsorptive stripping voltammetry. <i>Analytica Chimica Acta</i> , 2000, 405, 123-133.	5.4	20
46	Cytochrome P450 2D6 based electrochemical sensor for the determination of codeine. <i>Talanta</i> , 2014, 129, 315-319.	5.5	19
47	Application of an Optimization Procedure for the Determination of Chromium in Various Water Types by Catalytic-Adsorptive Stripping Voltammetry. <i>Electroanalysis</i> , 2001, 13, 1505-1512.	2.9	18
48	Screen-printed acetylcholinesterase-based biosensors for inhibitive determination of permethrin. <i>Science of the Total Environment</i> , 2012, 426, 346-350.	8.0	18
49	Simultaneous Determination of Cr(III) and Cr(VI) by Differential Pulse Voltammetry Using Modified Screen-Printed Carbon Electrodes in Array Mode. <i>Electroanalysis</i> , 2010, 22, 2924-2930.	2.9	17
50	Disposable Miniaturized Screen-Printed pH and Reference Electrodes for Potentiometric Systems. <i>Electroanalysis</i> , 2011, 23, 115-121.	2.9	16
51	Vanadium determination in water using alkaline phosphatase based screen-printed carbon electrodes modified with gold nanoparticles. <i>Journal of Electroanalytical Chemistry</i> , 2013, 693, 51-55.	3.8	14
52	Acetylcholinesterase Inhibition-Based Biosensor for Aluminum(III) Chronoamperometric Determination in Aqueous Media. <i>Sensors</i> , 2014, 14, 8203-8216.	3.8	14
53	Electrochemical Methods of Carbamazepine Determination. <i>Sensor Letters</i> , 2009, 7, 586-591.	0.4	14
54	A Chronoamperometric Screen Printed Carbon Biosensor Based on Alkaline Phosphatase Inhibition for W(VI) Determination in Water, Using 2-Phospho-l-Ascorbic Acid Trisodium Salt as a Substrate. <i>Sensors</i> , 2015, 15, 2232-2243.	3.8	13

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55	GADH screen-printed biosensor for gluconic acid determination in wine samples. <i>Sensors and Actuators B: Chemical</i> , 2014, 192, 56-59.	7.8	11
56	Resolution of Binary Mixtures of Rifamycin SV and Rifampicin by UV/VIS Spectroscopy and Partial Least-Squares Method (PLS). <i>Chemistry and Biodiversity</i> , 2004, 1, 1336-1343.	2.1	10
57	Thick-film voltammetric pH-sensors with internal indicator and reference species. <i>Talanta</i> , 2012, 99, 737-743.	5.5	10
58	A Disposable Alkaline Phosphatase-Based Biosensor for Vanadium Chronoamperometric Determination. <i>Sensors</i> , 2014, 14, 3756-3767.	3.8	10
59	Disposable immunosensor for human cytomegalovirus glycoprotein B detection. <i>Talanta</i> , 2015, 136, 42-46.	5.5	10
60	Biosensor for aluminium(III) based on its inhibition of $\hat{\pm}$ -chymotrypsin immobilized on a screen-printed carbon electrode modified with gold nanoparticles. <i>Mikrochimica Acta</i> , 2012, 179, 65-70.	5.0	9
61	Characterization of a Disposable Electrochemical Biosensor Based on Putrescine Oxidase from <i>Micrococcus rubens</i> for the Determination of Putrescine. <i>Electroanalysis</i> , 2015, 27, 368-377.	2.9	9
62	Dual Biosensing Device for the Speciation of Arsenic. <i>Electroanalysis</i> , 2015, 27, 302-308.	2.9	9
63	Electrochemical Detection of Mercaptans in Wine Using Gold Nanoparticle-Modified Carbon Electrodes. <i>Journal of the Electrochemical Society</i> , 2021, 168, 086509.	2.9	9
64	Simultaneous amperometric determination of malic and gluconic acids in wine using screen-printed carbon electrodes. <i>Sensors and Actuators B: Chemical</i> , 2015, 211, 250-254.	7.8	8
65	4-ethyphenol detection in wine by fullerene modified screen-printed carbon electrodes. <i>Microchemical Journal</i> , 2022, 180, 107599.	4.5	8
66	Preliminary Contribution to the Quantification of HMF in Honey by Electrochemical Biosensor Chips. <i>Electroanalysis</i> , 2006, 18, 2435-2440.	2.9	7
67	Disposable Horseradish Peroxidase Biosensors for the Selective Determination of Tyramine. <i>Electroanalysis</i> , 2013, 25, 1316-1322.	2.9	7
68	Oxcarbazepine Analysis by Adsorptive Stripping Voltammetry Using Silver Nanoparticle-Modified Carbon Screen-Printed Electrodes. <i>Sensor Letters</i> , 2010, 8, 268-272.	0.4	6
69	Electrochemical Sensors in the Development of Selective Methods for Antiepileptic Drugs Determination. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2010, 13, 650-657.	1.1	6
70	Integrated Bienzyme Chip for Ethanol Monitoring. <i>Electroanalysis</i> , 2006, 18, 1231-1234.	2.9	5
71	Electrochemical Oxidation of the Antiretroviral Drug Nelfinavir on Modified Screen-Printed Electrodes. <i>Electroanalysis</i> , 2016, 28, 2081-2086.	2.9	2