

Fernando Garay

List of Publications by Year in descending order

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37
papers

740
citations

567281

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526287

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all docs

38
docs citations

38
times ranked

798
citing authors

#	ARTICLE	IF	CITATIONS
1	Amperometric Biosensor for Direct Blood Lactate Detection. <i>Analytical Chemistry</i> , 2010, 82, 5568-5572.	6.5	109
2	Novel synthetic methods to produce functionalized conducting polymers I. Polyanilines. <i>Electrochimica Acta</i> , 2004, 49, 3671-3686.	5.2	66
3	Design and optimization of a lactate amperometric biosensor based on lactate oxidase cross-linked with polymeric matrixes. <i>Sensors and Actuators B: Chemical</i> , 2008, 131, 590-595.	7.8	62
4	Square-wave voltammetry of quasi-reversible electrode processes with coupled homogeneous chemical reactions. <i>Journal of Electroanalytical Chemistry</i> , 2002, 518, 91-102.	3.8	51
5	Mucin and carbon nanotube-based biosensor for detection of glucose in human plasma. <i>Analytical Biochemistry</i> , 2018, 550, 34-40.	2.4	48
6	Toward Feedback-Controlled Anesthesia: Voltammetric Measurement of Propofol (2,6-Diisopropylphenol) in Serum-Like Electrolyte Solutions. <i>Analytical Chemistry</i> , 2012, 84, 7670-7676.	6.5	40
7	Electrochemical quantification of 2,6-diisopropylphenol (propofol). <i>Analytica Chimica Acta</i> , 2011, 704, 63-67.	5.4	30
8	Mathematical modeling and experimental results of a sandwich-type amperometric biosensor. <i>Sensors and Actuators B: Chemical</i> , 2012, 162, 284-291.	7.8	28
9	Quasi-reversible EC reactions at spherical microelectrodes analysed by square-wave voltammetry. <i>Journal of Electroanalytical Chemistry</i> , 2002, 527, 85-92.	3.8	25
10	Adsorptive square wave voltammetry of metal complexes. Effect of ligand concentration. <i>Journal of Electroanalytical Chemistry</i> , 2001, 505, 109-117.	3.8	24
11	Surface plasmon resonance aided electrochemical immunosensor for CK-MB determination in undiluted serum samples. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 1873-1881.	3.7	23
12	Dynamics of Ion Exchange between Self-assembled Redox Polyelectrolyte Multilayer Modified Electrode and Liquid Electrolyte. <i>Journal of Physical Chemistry B</i> , 2006, 110, 15345-15352.	2.6	20
13	Adsorptive square wave voltammetry of metal complexes. Effect of ligand concentration. <i>Journal of Electroanalytical Chemistry</i> , 2001, 505, 100-108.	3.8	17
14	Adsorptive square wave voltammetry of metal complexes. Effect of ligand concentration.. <i>Journal of Electroanalytical Chemistry</i> , 2003, 548, 11-18.	3.8	16
15	The electrochemical reaction mechanism of arsenic on gold analyzed by anodic stripping Square-wave voltammetry. <i>Electrochimica Acta</i> , 2017, 227, 447-454.	5.2	15
16	Supramolecular complex based on MWNTs/Boltorn H40 provides fast response to a Sandwich-type amperometric lactate biosensor. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 577-584.	7.8	14
17	Adsorptive square-wave voltammetry applied to study the reduction mechanism of Cu ^{II} -sulfoxine and Cu ^{II} -ferron complexes. <i>Journal of Electroanalytical Chemistry</i> , 2003, 544, 1-11.	3.8	13
18	Charge Neutralization Process of Mobile Species at Any Distance from the Electrode/Solution Interface. 1. Theory and Simulation of Concentration and Concentration Gradients Developed during Potentiostatic Conditions. <i>Analytical Chemistry</i> , 2006, 78, 6733-6739.	6.5	13

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19	Charge Neutralization Process of Mobile Species at Any Distance from the Electrode/Solution Interface. 2. Concentration Gradients during Potential Pulse Experiments. <i>Analytical Chemistry</i> , 2006, 78, 6740-6746.	6.5	13
20	Adsorptive square-wave voltammetry of metal complexes. Effect of ligand concentration. <i>Journal of Electroanalytical Chemistry</i> , 2003, 548, 1-9.	3.8	10
21	Theory of square-wave voltammetry for the analysis of an EC reaction mechanism complicated by the adsorption of the reagent. <i>Journal of Electroanalytical Chemistry</i> , 2019, 840, 117-124.	3.8	10
22	Compared arsenic removal from aqueous solutions by synthetic mixed oxides and modified natural zeolites. <i>Adsorption</i> , 2019, 25, 1425-1436.	3.0	9
23	Charge neutralization process of mobile species developed during potentiodynamic conditions. Part 1: Theory. <i>Journal of Electroanalytical Chemistry</i> , 2008, 624, 218-227.	3.8	8
24	Analysis and optimization of a hydrogel matrix for the development of a sandwich-type glucose biosensor. <i>Sensors and Actuators B: Chemical</i> , 2015, 211, 125-130.	7.8	8
25	Latin American dose survey results in mammography studies under IAEA programme: radiological protection of patients in medical exposures (TSA3). <i>Radiation Protection Dosimetry</i> , 2015, 163, 473-479.	0.8	8
26	Adsorptive square-wave voltammetry of quasi-reversible electrode processes with a coupled catalytic chemical reaction. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 3271-3278.	2.5	8
27	Square-Wave Voltammetry of Quasi-Reversible CE Reactions at Spherical Microelectrodes. <i>Electroanalysis</i> , 2002, 14, 1635-1643.	2.9	7
28	How low does the oxygen concentration go within a sandwich-type amperometric biosensor?. <i>Sensors and Actuators B: Chemical</i> , 2012, 174, 279-284.	7.8	7
29	Charge neutralization process of mobile species developed during potentiodynamic conditions. Part 2: Simulation and fit of probe beam deflection experiments. <i>Journal of Electroanalytical Chemistry</i> , 2008, 624, 211-217.	3.8	6
30	Theoretical and experimental study of the catalytic cathodic stripping square-wave voltammetry of chromium species. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 3279-3286.	2.5	6
31	Theory of square-wave catalytic adsorptive stripping voltammetry. How to obtain mechanistic information from experimental data. <i>Journal of Electroanalytical Chemistry</i> , 2018, 826, 125-132.	3.8	6
32	Cathodic stripping square-wave voltammetry for assessing As(III) removal with synthetic mixed oxides. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 3619-3629.	2.5	5
33	Theory of square-wave voltammetry for the analysis of a CE reaction mechanism complicated by the adsorption of the reactant. <i>Journal of Electroanalytical Chemistry</i> , 2019, 852, 113519.	3.8	5
34	How low does the oxygen concentration go within a sandwich-type amperometric biosensor? Part 2: Theory for PPO biosensors. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 581-587.	7.8	3
35	A robust and practically free of charge intermittent use glucose biosensor. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 751-759.	7.8	3
36	Self-Limiting Robust Surface-Grafted Organic Nanofilms. <i>Chemistry of Materials</i> , 2010, 22, 2248-2254.	6.7	2

#	ARTICLE	IF	CITATIONS
37	Mechanistic analysis of the cathodic stripping square-wave voltammetric response of the copper–arsenic system at a mercury electrode. <i>Journal of Electroanalytical Chemistry</i> , 2021, 880, 114833.	3.8	2