

# Juan C Vidal

## List of Publications by Year in descending order

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51  
papers

2,166  
citations

257357

24  
h-index

223716

46  
g-index

51  
all docs

51  
docs citations

51  
times ranked

2221  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical affinity biosensors for detection of mycotoxins: A review. <i>Biosensors and Bioelectronics</i> , 2013, 49, 146-158.	5.3	216
2	An electrochemical competitive biosensor for ochratoxin A based on a DNA biotinylated aptamer. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3254-3259.	5.3	178
3	In situ preparation of a cholesterol biosensor: entrapment of cholesterol oxidase in an overoxidized polypyrrole film electrodeposited in a flow system. <i>Analytica Chimica Acta</i> , 1999, 385, 213-222.	2.6	165
4	Recent Advances in Electropolymerized Conducting Polymers in Amperometric Biosensors. <i>Mikrochimica Acta</i> , 2003, 143, 93-111.	2.5	165
5	Amperometric cholesterol biosensors based on the electropolymerization of pyrrole and the electrocatalytic effect of Prussian-Blue layers helped with self-assembled monolayers. <i>Talanta</i> , 2004, 64, 655-664.	2.9	117
6	Comparison of biosensors based on entrapment of cholesterol oxidase and cholesterol esterase in electropolymerized films of polypyrrole and diamionaphthalene derivatives for amperometric determination of cholesterol. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 377, 273-280.	1.9	86
7	Electropolymerization of pyrrole and immobilization of glucose oxidase in a flow system: influence of the operating conditions on analytical performance. <i>Biosensors and Bioelectronics</i> , 1998, 13, 371-382.	5.3	77
8	In situ preparation of overoxidized PPy/oPPD bilayer biosensors for the determination of glucose and cholesterol in serum. <i>Sensors and Actuators B: Chemical</i> , 1999, 57, 219-226.	4.0	73
9	A comparative study of immobilization methods of a tyrosinase enzyme on electrodes and their application to the detection of dichlorvos organophosphorus insecticide. <i>Talanta</i> , 2006, 68, 791-799.	2.9	73
10	Ochratoxin A nanostructured electrochemical immunosensors based on polyclonal antibodies and gold nanoparticles coupled to the antigen. <i>Analytical Methods</i> , 2010, 2, 335.	1.3	71
11	Amperometric cholesterol biosensor based on in situ reconstituted cholesterol oxidase on an immobilized monolayer of flavin adenine dinucleotide cofactor. <i>Analytical Biochemistry</i> , 2004, 333, 88-98.	1.1	64
12	Use of polyclonal antibodies to ochratoxin A with a quartz crystal microbalance for developing real-time mycotoxin piezoelectric immunosensors. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 575-582.	1.9	60
13	An electrochemical immunosensor for ochratoxin A determination in wines based on a monoclonal antibody and paramagnetic microbeads. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 1585-1593.	1.9	55
14	Development of a Platinized and Ferrocene-Mediated Cholesterol Amperometric Biosensor Based on Electropolymerization of Polypyrrole in a Flow System.. <i>Analytical Sciences</i> , 2002, 18, 537-542.	0.8	49
15	Strategies for the improvement of an amperometric cholesterol biosensor based on electropolymerization in flow systems: use of charge-transfer mediators and platinization of the electrode. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2000, 24, 51-63.	1.4	48
16	Analytical applications of single particle inductively coupled plasma mass spectrometry: A comprehensive and critical review. <i>Analytical Methods</i> , 2021, 13, 2742-2795.	1.3	42
17	Improved electrochemical competitive immunosensor for ochratoxin A with a biotinylated monoclonal antibody capture probe and colloidal gold nanostructuring. <i>Analytical Methods</i> , 2011, 3, 977.	1.3	39
18	Design of a Multilayer Cholesterol Amperometric Biosensor for Preparation and Use in Flow Systems. <i>Electroanalysis</i> , 2001, 13, 229-235.	1.5	38

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19	Three approaches to the development of selective bilayer amperometric biosensors for glucose by in situ electropolymerization. <i>Analyst, The</i> , 1999, 124, 319-324.	1.7	37
20	Electropolymerization of pyrrole and phenylenediamine over an organic conducting salt based amperometric sensor of increased selectivity for glucose determination. <i>Analytica Chimica Acta</i> , 1999, 385, 203-211.	2.6	34
21	Extraction-atomic-absorption spectrophotometric determination of lead by hydride generation in non-aqueous media. <i>Analyst, The</i> , 1984, 109, 713-715.	1.7	31
22	Spectrophotometric and fluorimetric determination of boron in soils, plants and waters by extraction with 2-methylpentane-2,4-diol in isobutyl methyl ketone. <i>Analyst, The</i> , 1983, 108, 368.	1.7	27
23	Rapid determination of recent cocaine use with magnetic particles-based enzyme immunoassays in serum, saliva, and urine fluids. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 125, 54-61.	1.4	27
24	Design of an Interference-Free Cholesterol Amperometric Biosensor Based on the Electrosynthesis of Polymeric Films of Diaminonaphthalene Isomers. <i>Electroanalysis</i> , 2004, 16, 497-504.	1.5	26
25	A Modulated Tyrosinase Enzyme-Based Biosensor for Application to the Detection of Dichlorvos and Atrazine Pesticides. <i>Electroanalysis</i> , 2008, 20, 865-873.	1.5	25
26	Molecularly Imprinted On-Line Solid-Phase Extraction Coupled with Fluorescence Detection for the Determination of Ochratoxin A in Wheat Samples. <i>Analytical Letters</i> , 2012, 45, 51-62.	1.0	22
27	A validated multi-channel electrochemical immunoassay for rapid fumonisin B1 determination in cereal samples. <i>Analytical Methods</i> , 2015, 7, 3742-3749.	1.3	22
28	Extraction-atomic-absorption spectrophotometric determination of antimony by generation of its hydride in non-aqueous media. <i>Analyst, The</i> , 1984, 109, 123-125.	1.7	20
29	A chronoamperometric sensor for hydrogen peroxide based on electron transfer between immobilized horseradish peroxidase on a glassy carbon electrode and a diffusing ferrocene mediator. <i>Sensors and Actuators B: Chemical</i> , 1994, 21, 135-141.	4.0	20
30	Rapid simultaneous extraction and magnetic particle-based enzyme immunoassay for the parallel determination of ochratoxin A, fumonisin B1 and deoxynivalenol mycotoxins in cereal samples. <i>Analytical Methods</i> , 2017, 9, 3602-3611.	1.3	20
31	A POLYMERIC BILAYER CONFIGURATION FOR A CHOLESTEROL AMPEROMETRIC BIOSENSOR BASED ON THE COMBINATION OF OVEROXIDIZED POLYPYRROLE AND A POLYNAPHTHALENE DERIVATIVE. <i>Analytical Letters</i> , 2002, 35, 837-853.	1.0	19
32	Atomic absorption spectrometric determination of lead in gasolines by generation of its covalent hydride. <i>Journal of Analytical Atomic Spectrometry</i> , 1987, 2, 55-58.	1.6	18
33	Potentiometric determination of metoclopramide using a double-membrane based ion-selective electrode. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989, 258, 295-302.	0.3	17
34	Binding capacity of casein to lead and voltammetric speciation of lead in milk with a nafion coated electrode. <i>Electroanalysis</i> , 1992, 4, 653-659.	1.5	16
35	A Multi- $\mu$ electrochemical Competitive Immunosensor for Sensitive Cocaine Determination in Biological Samples. <i>Electroanalysis</i> , 2016, 28, 685-694.	1.5	16
36	Determination of cadmium by electrothermal atomisation atomic absorption spectrometry after electrodeposition on a L'vov platform. <i>Analyst, The</i> , 1990, 115, 539.	1.7	15

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37	Speciation of Cr(VI)/Cr(III) by electrothermal atomisation AAS after electrodeposition on a L'vov platform. <i>Fresenius' Journal of Analytical Chemistry</i> , 1992, 344, 234-241.	1.5	15
38	Extraction and spectrophotometric determination of uranium in ores. <i>Analyst, The</i> , 1983, 108, 1392.	1.7	14
39	Extraction-spectrophotometric determination of germanium with phenylfluorone in N,N-dimethylformamide. <i>Analyst, The</i> , 1985, 110, 747-749.	1.7	12
40	A double-membrane ion-selective electrode for the potentiometric determination of potassium. <i>Microchemical Journal</i> , 1989, 39, 289-297.	2.3	12
41	Determination of tin in organotin compounds by hydride generation atomic absorption spectrometry in organic media. <i>Journal of Analytical Atomic Spectrometry</i> , 1990, 5, 45.	1.6	12
42	Extraction-spectrophotometric determination of niobium with N-phenylbenzohydroxamic acid and 4-(2-pyridylazo)resorcinol in non-aqueous media. <i>Analyst, The</i> , 1985, 110, 193.	1.7	11
43	Models for studying the binding capacity of albumin to zinc by stripping voltammetry. <i>Analytica Chimica Acta</i> , 1992, 259, 129-138.	2.6	11
44	A rapid magnetic particle-based enzyme immunoassay for human cytomegalovirus glycoprotein B quantification. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 156, 372-378.	1.4	9
45	Voltammetric sensing of silver nanoparticles on electrodes modified with selective ligands by using covalent and electropolymerization procedures. Discrimination between silver(I) and metallic silver. <i>Mikrochimica Acta</i> , 2020, 187, 183.	2.5	9
46	Electronic Communication in Binuclear Osmium- and Iridium-Polyhydrides. <i>Inorganic Chemistry</i> , 2021, 60, 2783-2796.	1.9	8
47	Fluorometric Determination of Cadmium in Polyvinyl Chloride Stabilizers and Polyvinyl Chloride in Nonaqueous Media. <i>Analytical Sciences</i> , 1990, 6, 187-190.	0.8	7
48	Detection, size characterization and quantification of silver nanoparticles in consumer products by particle collision coulometry. <i>Mikrochimica Acta</i> , 2021, 188, 12.	2.5	6
49	Anodic-stripping voltammetry of metal complexes in non-aqueous media after extraction: determination of copper with salicylaldoxime. <i>Analyst, The</i> , 1986, 111, 619-624.	1.7	4
50	A double-membrane nitrate ion-selective electrode based on aliquat-nitrate in paraffin. <i>Fresenius Zeitschrift für Analytische Chemie</i> , 1989, 333, 619-623.	0.7	4
51	Voltammetric Measurement of the Cu(III)/Cu(II) Ratio and Oxygen Content in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> Superconductive Materials with a Carbon-Paste Electrode. <i>Analytical Sciences</i> , 1996, 12, 109-113.	0.8	4