

Beatriz Prieto-Simon

List of Publications by Year in descending order

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76
papers

3,391
citations

126708

33
h-index

143772

57
g-index

77
all docs

77
docs citations

77
times ranked

4635
citing authors

#	ARTICLE	IF	CITATIONS
1	Biosensors for Pesticide Detection: New Trends. American Journal of Analytical Chemistry, 2012, 03, 210-232.	0.3	169
2	New advances in electrochemical biosensors for the detection of toxins: Nanomaterials, magnetic beads and microfluidics systems. A review. Analytica Chimica Acta, 2016, 908, 8-21.	2.6	164
3	Highly sensitive detection of pathogen Escherichia coli O157:H7 by electrochemical impedance spectroscopy. Biosensors and Bioelectronics, 2013, 45, 174-180.	5.3	155
4	Enzyme-Linked Aptamer Assays (ELAAs), based on a competition format for a rapid and sensitive detection of Ochratoxin A in wine. Food Control, 2011, 22, 737-743.	2.8	139
5	Aptamer-DNAzyme hairpins for biosensing of Ochratoxin A. Biosensors and Bioelectronics, 2012, 32, 208-212.	5.3	130
6	Novel highly-performing immunosensor-based strategy for ochratoxin A detection in wine samples. Biosensors and Bioelectronics, 2008, 23, 995-1002.	5.3	120
7	Nanostructured Electrochemical Biosensors for Label-Free Detection of Water- and Food-Borne Pathogens. ACS Applied Materials & Interfaces, 2018, 10, 6055-6072.	4.0	115
8	Biosensors to detect marine toxins: Assessing seafood safety. Talanta, 2007, 72, 884-895.	2.9	108
9	Skin in the diagnostics game: Wearable biosensor nano- and microsystems for medical diagnostics. Nano Today, 2020, 30, 100828.	6.2	106
10	Enzyme-Linked Immunosorbent Assay (ELISA) based on superparamagnetic nanoparticles for aflatoxin M1 detection. Talanta, 2008, 77, 138-143.	2.9	103
11	A review of the use of genetically engineered enzymes in electrochemical biosensors. Seminars in Cell and Developmental Biology, 2009, 20, 3-9.	2.3	93
12	Bioelectronic tongues: New trends and applications in water and food analysis. Biosensors and Bioelectronics, 2016, 79, 608-626.	5.3	91
13	Comparative study of electron mediators used in the electrochemical oxidation of NADH. Biosensors and Bioelectronics, 2004, 19, 1131-1138.	5.3	89
14	Electrochemical biosensors as a tool for antioxidant capacity assessment. Sensors and Actuators B: Chemical, 2008, 129, 459-466.	4.0	79
15	Emerging biotools for assessment of mycotoxins in the past decade. TrAC - Trends in Analytical Chemistry, 2007, 26, 689-702.	5.8	76
16	Label-free ITO-based immunosensor for the detection of very low concentrations of pathogenic bacteria. Bioelectrochemistry, 2015, 101, 146-152.	2.4	76
17	Novel nanobiotechnological concepts in electrochemical biosensors for the analysis of toxins. Analyst, The, 2012, 137, 1055.	1.7	72
18	Advances in Nanoporous Anodic Alumina-Based Biosensors to Detect Biomarkers of Clinical Significance: A Review. Advanced Healthcare Materials, 2018, 7, 1700904.	3.9	70

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19	Trends in Flow-based Biosensing Systems for Pesticide Assessment. <i>Sensors</i> , 2006, 6, 1161-1186.	2.1	66
20	Transdermal Electrochemical Monitoring of Glucose via High-Density Silicon Microneedle Array Patch. <i>Advanced Functional Materials</i> , 2022, 32, 2009850.	7.8	66
21	Biomolecule Immobilization in Biosensor Development: Tailored Strategies Based on Affinity Interactions. <i>Protein and Peptide Letters</i> , 2008, 15, 757-763.	0.4	62
22	Porous polymeric membranes: fabrication techniques and biomedical applications. <i>Journal of Materials Chemistry B</i> , 2021, 9, 2129-2154.	2.9	56
23	Novel peptidylated surfaces for interference-free electrochemical detection of cardiac troponin I. <i>Biosensors and Bioelectronics</i> , 2018, 99, 486-492.	5.3	53
24	Electrochemical immunosensor for breast cancer biomarker detection using high-density silicon microneedle array. <i>Biosensors and Bioelectronics</i> , 2021, 192, 113496.	5.3	53
25	Label-free electrochemical DNA sensor using click-functionalized PEDOT electrodes. <i>Biosensors and Bioelectronics</i> , 2015, 74, 751-756.	5.3	52
26	Rapid high-throughput analysis of ochratoxin A by the self-assembly of DNAzyme aptamer conjugates in wine. <i>Talanta</i> , 2013, 116, 520-526.	2.9	51
27	Dense Arrays of Uniform Submicron Pores in Silicon and Their Applications. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 1160-1169.	4.0	48
28	Electrochemical Biosensors Featuring Oriented Antibody Immobilization via Electrografted and Self-Assembled Hydrazide Chemistry. <i>Analytical Chemistry</i> , 2014, 86, 1422-1429.	3.2	46
29	Past, present and future of diatoms in biosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 276-285.	5.8	46
30	Array of peptide-modified electrodes for the simultaneous determination of Pb(II), Cd(II) and Zn(II). <i>Talanta</i> , 2014, 125, 159-166.	2.9	44
31	Label-Free Bacterial Toxin Detection in Water Supplies Using Porous Silicon Nanochannel Sensors. <i>ACS Sensors</i> , 2019, 4, 1515-1523.	4.0	40
32	Development of L-lactate dehydrogenase biosensor based on porous silicon resonant microcavities as fluorescence enhancers. <i>Biosensors and Bioelectronics</i> , 2015, 74, 637-643.	5.3	37
33	Porous silicon membrane-modified electrodes for label-free voltammetric detection of MS2 bacteriophage. <i>Biosensors and Bioelectronics</i> , 2016, 80, 47-53.	5.3	37
34	Toward Multiplexing Detection of Wound Healing Biomarkers on Porous Silicon Resonant Microcavities. <i>Advanced Science</i> , 2016, 3, 1500383.	5.6	33
35	Tailored carbon nanotube immunosensors for the detection of microbial contamination. <i>Biosensors and Bioelectronics</i> , 2015, 67, 642-648.	5.3	31
36	Evaluation of different mediator-modified screen-printed electrodes used in a flow system as amperometric sensors for NADH. <i>Talanta</i> , 2007, 71, 2102-2107.	2.9	30

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37	Electrochemical detection of N-nitrosodimethylamine using a molecular imprinted polymer. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 613-620.	4.0	30
38	Performance optimisation of porous silicon rugate filter biosensor for the detection of insulin. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 1313-1322.	4.0	30
39	Latest trends in mycotoxin detection. <i>Stewart Postharvest Review</i> , 0, 4, 1-7.	0.7	30
40	Sensitive detection of ochratoxin A in wine and cereals using fluorescence-based immunosensing. <i>Food Chemistry</i> , 2012, 135, 1323-1329.	4.2	29
41	Amplification-free electrochemiluminescence molecular beacon-based microRNA sensing using a mobile phone for detection. <i>Sensors and Actuators B: Chemical</i> , 2021, 330, 129261.	4.0	29
42	High-sensitive flow-based kinetic exclusion assay for okadaic acid assessment in shellfish samples. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1395-1401.	5.3	26
43	Silicon Micropillar Array-Based Wearable Sweat Glucose Sensor. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 2401-2410.	4.0	26
44	Evaluation of different strategies for the development of amperometric biosensors for L-lactate. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2663-2668.	5.3	25
45	Signal Off-Aptasensor Based on Enzyme Inhibition Induced by Conformational Switch. <i>Analytical Chemistry</i> , 2014, 86, 1437-1444.	3.2	25
46	Immunochemical tools for mycotoxin detection in food. <i>Monatshefte für Chemie</i> , 2009, 140, 915-920.	0.9	24
47	Malate Biosensors for the Monitoring of Malolactic Fermentation: Different Approaches. <i>Analytical Letters</i> , 2006, 39, 1543-1558.	1.0	23
48	Electrochemical aptamer-based sensors. <i>Bioanalytical Reviews</i> , 2010, 1, 141-157.	0.1	23
49	Porous Silicon Nanostructures as Effective Faradaic Electrochemical Sensing Platforms. <i>Advanced Functional Materials</i> , 2019, 29, 1809206.	7.8	23
50	New redox mediator-modified polysulfone composite films for the development of dehydrogenase-based biosensors. <i>Biosensors and Bioelectronics</i> , 2006, 22, 131-137.	5.3	22
51	Porous Alumina Membrane-Based Electrochemical Biosensor for Protein Biomarker Detection in Chronic Wounds. <i>Frontiers in Chemistry</i> , 2020, 8, 155.	1.8	20
52	Metal-Dispersed Xerogel-Based Composite Films for the Development of Interference Free Oxidase-Based Biosensors. <i>Chemistry of Materials</i> , 2004, 16, 1026-1034.	3.2	18
53	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.	2.7	18
54	Microwave Heating of Poly(N-isopropylacrylamide)-Conjugated Gold Nanoparticles for Temperature-Controlled Display of Concanavalin A. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27755-27764.	4.0	18

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55	Electrochemical fingerprints of brominated trihaloacetic acids (HAA3) mixtures in water. <i>Sensors and Actuators B: Chemical</i> , 2017, 247, 70-77.	4.0	17
56	Dual-Mode and Label-Free Detection of Exosomes from Plasma Using an Electrochemical Quartz Crystal Microbalance with Dissipation Monitoring. <i>Analytical Chemistry</i> , 2022, 94, 2465-2475.	3.2	14
57	Hyaluronic Acid-Modified Porous Silicon Films for the Electrochemical Sensing of Bacterial Hyaluronidase. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800178.	2.0	12
58	Disperse-and-Collect Approach for the Type-Selective Detection of Matrix Metalloproteinases in Porous Silicon Resonant Microcavities. <i>ACS Sensors</i> , 2017, 2, 203-209.	4.0	11
59	Magnetic Nanoparticles Enhance Pore Blockage-Based Electrochemical Detection of a Wound Biomarker. <i>Frontiers in Chemistry</i> , 2019, 7, 438.	1.8	11
60	High-adhesion vertically aligned gold nanowire stretchable electrodes via a thin-layer soft nailing strategy. <i>Nanoscale Horizons</i> , 2019, 4, 1380-1387.	4.1	11
61	Label-Free Si_3N_4 Photonic Crystal Based Immunosensors for Diagnostic Applications. <i>IEEE Photonics Journal</i> , 2014, 6, 1-7.	1.0	10
62	Designing Electrochemical Biosensing Platforms Using Layered Carbon-Stabilized Porous Silicon Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 15565-15575.	4.0	10
63	Identification of Inflammatory and Regulatory Cytokines IL-1 β , IL-4, IL-6, IL-12, IL-13, IL-17A, TNF- α , and IFN- γ -Producing Cells in the Milk of Dairy Cows with Subclinical and Clinical Mastitis. <i>Pathogens</i> , 2022, 11, 372.	1.2	10
64	Carbon-stabilized porous silicon as novel voltammetric sensor platforms. <i>Electrochimica Acta</i> , 2021, 377, 138077.	2.6	9
65	Development of a sustainable nanosensor using green Cu nanoparticles for simultaneous determination of antibiotics in drinking water. <i>Analytical Methods</i> , 2022, 14, 2014-2025.	1.3	8
66	Enzyme-like electrocatalysis from 2D gold nanograss-nanocube assemblies. <i>Journal of Colloid and Interface Science</i> , 2020, 575, 24-34.	5.0	6
67	A portable point-of-use EIS device for in-vivo biomedical applications. , 2014, , .		3
68	Differential functionalisation of the internal and external surfaces of carbon-stabilised nanoporous silicon. <i>Chemical Communications</i> , 2019, 55, 8001-8004.	2.2	3
69	Determination of the Antioxidants' Ability to Scavenge Free Radicals Using Biosensors. <i>Advances in Experimental Medicine and Biology</i> , 2010, 698, 222-233.	0.8	3
70	Towards a portable point-of-use blood analysis with EIS technique device. , 2014, , .		2
71	Transdermal Electrochemical Monitoring of Glucose via High-Density Silicon Microneedle Array Patch (<i>Adv. Funct. Mater.</i> 3/2022). <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	2
72	2D photonic crystal membranes for optical biosensors. , 2014, , .		1

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73	Formation and biofunctionalisation of polymer photonic crystals by replica moulding from porous silicon. <i>Materials Letters</i> , 2021, 284, 128907.	1.3	1
74	Electrochemical Biosensors Based on Convectively Assembled Colloidal Crystals. <i>Biosensors</i> , 2022, 12, 480.	2.3	1
75	Biosensors for Secondary Metabolites, Two Case Studies: Ochratoxin A and Microcystin. <i>Advances in Experimental Medicine and Biology</i> , 2010, 698, 282-292.	0.8	0
76	Photonic crystal based immunosensor for clinical diagnosis. , 2014, , .		0