

Mnica Camps

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89
papers

2,303
citations

27
h-index

44
g-index

96
ext. papers

2,624
ext. citations

6.1
avg, IF

5.28
L-index

#	Paper	IF	Citations
89	New advances in electrochemical biosensors for the detection of toxins: Nanomaterials, magnetic beads and microfluidics systems. A review. <i>Analytica Chimica Acta</i> , 2016 , 908, 8-21	6.6	142
88	Novel highly-performing immunosensor-based strategy for ochratoxin A detection in wine samples. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 995-1002	11.8	113
87	DNA biochip arraying, detection and amplification strategies. <i>TrAC - Trends in Analytical Chemistry</i> , 2004 , 23, 49-62	14.6	104
86	Biosensors to detect marine toxins: Assessing seafood safety. <i>Talanta</i> , 2007 , 72, 884-95	6.2	94
85	Highly sensitive amperometric immunosensors for microcystin detection in algae. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 1034-40	11.8	79
84	A review of the use of genetically engineered enzymes in electrochemical biosensors. <i>Seminars in Cell and Developmental Biology</i> , 2009 , 20, 3-9	7.5	76
83	Emerging biotools for assessment of mycotoxins in the past decade. <i>TrAC - Trends in Analytical Chemistry</i> , 2007 , 26, 689-702	14.6	71
82	Electrochemical biosensors as a tool for antioxidant capacity assessment. <i>Sensors and Actuators B: Chemical</i> , 2008 , 129, 459-466	8.5	68
81	Plant tissue-and photosynthesis-based biosensors. <i>Biotechnology Advances</i> , 2008 , 26, 370-8	17.8	66
80	Novel nanobiotechnological concepts in electrochemical biosensors for the analysis of toxins. <i>Analyst, The</i> , 2012 , 137, 1055-67	5	65
79	Enzymatic recycling-based amperometric immunosensor for the ultrasensitive detection of okadaic acid in shellfish. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 716-22	11.8	64
78	Enzyme sensor for the electrochemical detection of the marine toxin okadaic acid. <i>Analytica Chimica Acta</i> , 2007 , 605, 87-93	6.6	61
77	Trends in Flow-based Biosensing Systems for Pesticide Assessment. <i>Sensors</i> , 2006 , 6, 1161-1186	3.8	58
76	Alternative methods for the detection of emerging marine toxins: biosensors, biochemical assays and cell-based assays. <i>Marine Drugs</i> , 2014 , 12, 5719-63	6	57
75	Layer-by-Layer Biomolecular Assemblies for Enzyme Sensors, Immunosensing, and Nanoarchitectures. <i>Analytical Letters</i> , 2003 , 36, 2551-2569	2.2	54
74	Towards the protein phosphatase-based biosensor for microcystin detection. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 1520-30	11.8	52
73	Electrochemical enzyme sensor arrays for the detection of the biogenic amines histamine, putrescine and cadaverine using magnetic beads as immobilisation supports. <i>Mikrochimica Acta</i> , 2016 , 183, 1881-1890	5.8	45

72	Enzyme inhibition-based biosensor for the electrochemical detection of microcystins in natural blooms of cyanobacteria. <i>Talanta</i> , 2007 , 72, 179-86	6.2	45
71	Biomolecule immobilization in biosensor development: tailored strategies based on affinity interactions. <i>Protein and Peptide Letters</i> , 2008 , 15, 757-63	1.9	43
70	DNA SENSORS. <i>Analytical Letters</i> , 2002 , 35, 1875-1894	2.2	41
69	Identification of ciguatoxins in a shark involved in a fatal food poisoning in the Indian Ocean. <i>Scientific Reports</i> , 2017 , 7, 8240	4.9	40
68	Detection and quantification of the toxic marine microalgae <i>Karlodinium veneficum</i> and <i>Karlodinium armiger</i> using recombinase polymerase amplification and enzyme-linked oligonucleotide assay. <i>Analytica Chimica Acta</i> , 2018 , 1039, 140-148	6.6	38
67	Past, present and future of diatoms in biosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 79, 276-285	4.6	35
66	SPR immunosensor for the detection of okadaic acid in mussels using magnetic particles as antibody carriers. <i>Sensors and Actuators B: Chemical</i> , 2014 , 190, 822-828	8.5	33
65	Detection of Tetrodotoxins in Puffer Fish by a Self-Assembled Monolayer-Based Immunoassay and Comparison with Surface Plasmon Resonance, LC-MS/MS, and Mouse Bioassay. <i>Analytical Chemistry</i> , 2015 , 87, 10839-47	7.8	31
64	Magnetic particle-based enzyme assays and immunoassays for microcystins: from colorimetric to electrochemical detection. <i>Environmental Science & Technology</i> , 2013 , 47, 471-8	10.3	31
63	Evidence of okadaic acid production in a cultured strain of the marine dinoflagellate <i>Prorocentrum rathymum</i> from Malaysia. <i>Toxicon</i> , 2010 , 55, 633-7	2.8	28
62	Evaluation of tetrodotoxins in puffer fish caught along the Mediterranean coast of Spain. Toxin profile of <i>Lagocephalus sceleratus</i> . <i>Environmental Research</i> , 2017 , 158, 1-6	7.9	27
61	Assessment of cytotoxicity in ten strains of <i>Gambierdiscus australes</i> from Macaronesian Islands by neuro-2a cell-based assays. <i>Journal of Applied Phycology</i> , 2018 , 30, 2447-2461	3.2	26
60	Enzymatic recycling for signal amplification: Improving microcystin detection with biosensors. <i>Sensors and Actuators B: Chemical</i> , 2008 , 129, 263-267	8.5	24
59	Immunochemical tools for mycotoxin detection in food. <i>Monatshefte Für Chemie</i> , 2009 , 140, 915-920	1.4	23
58	Electrochemical aptamer-based sensors. <i>Bioanalytical Reviews</i> , 2010 , 1, 141-157	1	22
57	Catechol monophosphate as a new substrate for screen-printed amperometric biosensors with immobilized phosphatases. <i>Sensors and Actuators B: Chemical</i> , 2006 , 113, 787-796	8.5	22
56	A roadmap for hazard monitoring and risk assessment of marine biotoxins on the basis of chemical and biological test systems. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2013 , 30, 487-545	4.3	22
55	Immunorecognition magnetic supports for the development of an electrochemical immunoassay for azaspiracid detection in mussels. <i>Biosensors and Bioelectronics</i> , 2017 , 92, 200-206	11.8	21

54	Dual quantitative PCR assay for identification and enumeration of <i>Karlodinium veneficum</i> and <i>Karlodinium armiger</i> combined with a simple and rapid DNA extraction method. <i>Journal of Applied Phycology</i> , 2018 , 30, 2435-2445	3.2	21
53	Tetrodotoxin detection in puffer fish by a sensitive planar waveguide immunosensor. <i>Sensors and Actuators B: Chemical</i> , 2017 , 253, 967-976	8.5	21
52	Inhibition equivalency factors for dinophysistoxin-1 and dinophysistoxin-2 in protein phosphatase assays: applicability to the analysis of shellfish samples and comparison with LC-MS/MS. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 2572-9	5.7	19
51	Detection of <i>Ostreopsis cf. ovata</i> in environmental samples using an electrochemical DNA-based biosensor. <i>Science of the Total Environment</i> , 2019 , 689, 655-661	10.2	18
50	Gambierdiscus and Fukuyoa as potential indicators of ciguatera risk in the Balearic Islands. <i>Harmful Algae</i> , 2020 , 99, 101913	5.3	17
49	Conjugation of genetically engineered protein phosphatases to magnetic particles for okadaic acid detection. <i>Journal of Biotechnology</i> , 2012 , 157, 89-95	3.7	16
48	Detection of tetrodotoxins in juvenile pufferfish <i>Lagocephalus sceleratus</i> (Gmelin, 1789) from the North Aegean Sea (Greece) by an electrochemical magnetic bead-based immunosensing tool. <i>Food Chemistry</i> , 2019 , 290, 255-262	8.5	15
47	Detection of azaspiracids in mussels using electrochemical immunosensors for fast screening in monitoring programs. <i>Sensors and Actuators B: Chemical</i> , 2018 , 262, 818-827	8.5	15
46	Immunosensor array platforms based on self-assembled dithiols for the electrochemical detection of tetrodotoxins in puffer fish. <i>Analytica Chimica Acta</i> , 2017 , 989, 95-103	6.6	15
45	Biosensors Based on Isothermal DNA Amplification for Bacterial Detection in Food Safety and Environmental Monitoring. <i>Sensors</i> , 2021 , 21,	3.8	15
44	Electrochemical genosensor for the direct detection of tailed PCR amplicons incorporating ferrocene labelled dATP. <i>Biosensors and Bioelectronics</i> , 2019 , 134, 76-82	11.8	14
43	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
42	Further advance of Species in the Canary Islands, with the First Report of. <i>Toxins</i> , 2020 , 12,	4.9	14
41	Rapid detection of ciguatoxins in Gambierdiscus and Fukuyoa with immunosensing tools. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 204, 111004	7	14
40	Colorimetric DNA-based assay for the specific detection and quantification of <i>Ostreopsis cf. ovata</i> and <i>Ostreopsis cf. siamensis</i> in the marine environment. <i>Harmful Algae</i> , 2019 , 84, 27-35	5.3	13
39	Protein phosphatase inhibition assays for okadaic acid detection in shellfish: Matrix effects, applicability and comparison with LCMS/MS analysis. <i>Harmful Algae</i> , 2012 , 19, 68-75	5.3	13
38	NG108-15 cell-based and protein phosphatase inhibition assays as alternative semiquantitative tools for the screening of lipophilic toxins in mussels. Okadaic acid detection. <i>Toxicology in Vitro</i> , 2010 , 24, 611-9	3.6	13
37	Detection of isothermally amplified ostreid herpesvirus 1 DNA in Pacific oyster (<i>Crassostrea gigas</i>) using a miniaturised electrochemical biosensor. <i>Talanta</i> , 2020 , 207, 120308	6.2	13

36	Self-assembled monolayer-based immunoassays for okadaic acid detection in seawater as monitoring tools. <i>Marine Environmental Research</i> , 2018 , 133, 6-14	3.3	13
35	Addressing the Analytical Challenges for the Detection of Ciguatoxins Using an Electrochemical Biosensor. <i>Analytical Chemistry</i> , 2020 , 92, 4858-4865	7.8	12
34	Development and validation of a maleimide-based enzyme-linked immunosorbent assay for the detection of tetrodotoxin in oysters and mussels. <i>Talanta</i> , 2018 , 176, 659-666	6.2	12
33	Bioaccessibility of lipophilic and hydrophilic marine biotoxins in seafood: An in vitro digestion approach. <i>Food and Chemical Toxicology</i> , 2019 , 129, 153-161	4.7	11
32	Structural and functional characterisation of a biohybrid material based on acetylcholinesterase and layered double hydroxides. <i>Talanta</i> , 2011 , 85, 1882-7	6.2	10
31	Rapid capture and detection of ostreid herpesvirus-1 from Pacific oyster <i>Crassostrea gigas</i> and seawater using magnetic beads. <i>PLoS ONE</i> , 2018 , 13, e0205207	3.7	10
30	Detection of Paralytic Shellfish Toxins in Mussels and Oysters Using the Qualitative Neogen Lateral-Flow Immunoassay: An Interlaboratory Study. <i>Journal of AOAC INTERNATIONAL</i> , 2018 , 101, 468-479	1.7	9
29	Rapid screening and multi-toxin profile confirmation of tetrodotoxins and analogues in human body fluids derived from a puffer fish poisoning incident in New Caledonia. <i>Food and Chemical Toxicology</i> , 2018 , 112, 188-193	4.7	8
28	Characterisation and determination of stability and functionality of biofunctionalised colloidal gold nanoparticles. <i>Analytica Chimica Acta</i> , 2006 , 556, 306-312	6.6	8
27	Electrochemically arrayed and addressed DNA multi-sensor platforms. <i>Sensors and Actuators B: Chemical</i> , 2006 , 114, 897-902	8.5	8
26	Detecting harmful algal blooms with nucleic acid amplification-based biotechnological tools. <i>Science of the Total Environment</i> , 2020 , 749, 141605	10.2	7
25	A fast magnetic bead-based colorimetric immunoassay for the detection of tetrodotoxins in shellfish. <i>Food and Chemical Toxicology</i> , 2020 , 140, 111315	4.7	7
24	Addressed immobilization of biofunctionalized diatoms on electrodes by gold electrodeposition. <i>Biofabrication</i> , 2017 , 9, 015027	10.5	6
23	Detecting Harmful Algal Blooms with Isothermal Molecular Strategies. <i>Trends in Biotechnology</i> , 2019 , 37, 1278-1281	15.1	6
22	Trends and Prospects on Electrochemical Biosensors for the Detection of Marine Toxins. <i>Comprehensive Analytical Chemistry</i> , 2017 , 303-341	1.9	6
21	Colorimetric and electrochemical phosphodiesterase inhibition assays for yessotoxin detection: development and comparison with LC-MS/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 2321-3044	4.4	6
20	Detection of Gambierdiscus and Fukuyoa single cells using recombinase polymerase amplification combined with a sandwich hybridization assay. <i>Journal of Applied Phycology</i> , 2021 , 33, 2273-2282	3.2	6
19	Protein phosphatase and cell-based assays as toxicosurveillance tools: Matrix effects in the analysis of marine toxins present in shellfish. <i>Toxicology Letters</i> , 2010 , 196, S334	4.4	5

18	Chapter 16 Amperometric enzyme sensors for the detection of cyanobacterial toxins in environmental samples. <i>Comprehensive Analytical Chemistry</i> , 2007 , 331-355	1.9	5
17	The Roses Ocean and Human Health Chair: A New Way to Engage the Public in Oceans and Human Health Challenges. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	5
16	Magnetic Beads in Marine Toxin Detection: A Review. <i>Magnetochemistry</i> , 2019 , 5, 62	3.1	5
15	A Single-Tube HNB-Based Loop-Mediated Isothermal Amplification for the Robust Detection of the. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	4
14	Hybrid Antibody-Aptamer Assay for Detection of Tetrodotoxin in Pufferfish. <i>Analytical Chemistry</i> , 2021 , 93, 14810-14819	7.8	3
13	Electrochemical biosensor for the dual detection of <i>Gambierdiscus australes</i> and <i>Gambierdiscus excentricus</i> in field samples. First report of <i>G. excentricus</i> in the Balearic Islands. <i>Science of the Total Environment</i> , 2022 , 806, 150915	10.2	3
12	Procedure 21 Protein phosphatase inhibition-based biosensor for amperometric microcystin detection in cyanobacterial cells. <i>Comprehensive Analytical Chemistry</i> , 2007 , 49, e151-e156	1.9	2
11	Strategy for the development of sensor platforms for multi-analysis. <i>International Journal of Environmental Analytical Chemistry</i> , 2004 , 84, 799-807	1.8	2
10	A smartphone-controlled amperometric immunosensor for the detection of Pacific ciguatoxins in fish. <i>Food Chemistry</i> , 2021 , 374, 131687	8.5	2
9	Biosensors for the Detection of Emerging Marine Toxins. <i>Advanced Sciences and Technologies for Security Applications</i> , 2016 , 231-248	0.6	2
8	Determination of the antioxidants ability to scavenge free radicals using biosensors. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 698, 222-33	3.6	2
7	Nucleic acid lateral flow dipstick assay for the duplex detection of <i>Gambierdiscus australes</i> and <i>Gambierdiscus excentricus</i> . <i>Harmful Algae</i> , 2021 , 110, 102135	5.3	2
6	Use of anionic polymer-coated magnetic beads to pre-concentrate Ostreid Herpesvirus 1 from seawater: Application to a UV disinfection treatment. <i>Aquaculture</i> , 2021 , 536, 736452	4.4	1
5	The wide spectrum of methods available to study marine neurotoxins. <i>Advances in Neurotoxicology</i> , 2021 , 6, 275-315	1.6	1
4	Risk characterisation of ciguatera poisoning in Europe. <i>EFSA Supporting Publications</i> , 2021 , 18, 6647E	1.1	0
3	Evaluation of ciguatoxins in seafood and the environment in Europe. <i>EFSA Supporting Publications</i> , 2021 , 18, 6648E	1.1	0
2	Cyclodextrin polymers as passive sampling materials for lipophilic marine toxins in <i>Prorocentrum lima</i> cultures and a <i>Dinophysis sacculus</i> bloom in the NW Mediterranean Sea. <i>Chemosphere</i> , 2021 , 285, 131464	8.4	0
1	Biosensors for secondary metabolites, two case studies: ochratoxin A and microcystin. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 698, 282-92	3.6	

