Giovanna Marrazza

List of Publications by Year in descending order

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122	6,704	50276	64796
papers	citations	46 h-index	79 g-index

133	133	133	6330
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nano-based smart pesticide formulations: Emerging opportunities for agriculture. Journal of Controlled Release, 2019, 294, 131-153.	9.9	424
2	Carbon and gold electrodes as electrochemical transducers for DNA hybridisation sensors. Biosensors and Bioelectronics, 2004, 19, 515-530.	10.1	368
3	Green synthesis of metalâ€“organic frameworks: A state-of-the-art review of potential environmental and medical applications. Coordination Chemistry Reviews, 2020, 420, 213407.	18.8	256
4	Electrochemical and piezoelectric DNA biosensors for hybridisation detection. Analytica Chimica Acta, 2008, 609, 139-159.	5.4	240
5	Disposable DNA electrochemical sensor for hybridization detection1This paper was presented at the Fifth World Congress on Biosensors, Berlin, Germany, 3â€“5 June 1998.1. Biosensors and Bioelectronics, 1999, 14, 43-51.	10.1	225
6	Disposable DNA electrochemical biosensors for environmental monitoring. Analytica Chimica Acta, 1999, 387, 297-307.	5.4	202
7	DNA electrochemical biosensors. Fresenius' Journal of Analytical Chemistry, 2001, 369, 15-22.	1.5	188
8	Oligonucleotide-modified screen-printed gold electrodes for enzyme-amplified sensing of nucleic acids. Biosensors and Bioelectronics, 2004, 20, 167-175.	10.1	165
9	Detection of Human Apolipoprotein E Genotypes by DNA Electrochemical Biosensor Coupled with PCR. Clinical Chemistry, 2000, 46, 31-37.	3.2	155
10	Electrochemical DNA biosensor for environmental monitoring. Analytica Chimica Acta, 2001, 427, 155-164.	5.4	150
11	Ink-jet printing for the fabrication of amperometric glucose biosensors. Analytica Chimica Acta, 1992, 262, 13-17.	5.4	149
12	Electrochemical aptasensors for contaminants detection in food and environment: Recent advances. Bioelectrochemistry, 2017, 118, 47-61.	4.6	129
13	MIP-Based Sensors: Promising New Tools for Cancer Biomarker Determination. Sensors, 2017, 17, 718.	3.8	123
14	Disposable electrochemical genosensor for the simultaneous analysis of different bacterial food contaminants. Biosensors and Bioelectronics, 2007, 22, 1544-1549.	10.1	121
15	Electrochemical DNA biosensor as a screening tool for the detection of toxicants in water and wastewater samples. Talanta, 2002, 56, 949-957.	5.5	117
16	Electrochemical detection of miRNA-222 by use of a magnetic bead-based bioassay. Analytical and Bioanalytical Chemistry, 2013, 405, 1025-1034.	3.7	113
17	Binding affinity of amyloid oligomers to cellular membranes is a generic indicator of cellular dysfunction in protein misfolding diseases. Scientific Reports, 2016, 6, 32721.	3.3	107
18	Piezoelectric Biosensors for Organophosphate and Carbamate Pesticides: A Review. Biosensors, 2014, 4, 301-317.	4.7	102

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19	Electrochemical DNA biosensor for analysis of wastewater samples. Bioelectrochemistry, 2002, 58, 113-118.	4.6	101
20	Enzyme-based impedimetric detection of PCR products using oligonucleotide-modified screen-printed gold electrodes. Biosensors and Bioelectronics, 2005, 20, 2001-2009.	10.1	100
21	Investigations of the antioxidant properties of plant extracts using a DNA-electrochemical biosensor. Biosensors and Bioelectronics, 2006, 21, 1374-1382.	10.1	98
22	New label free CA125 detection based on gold nanostructured screen-printed electrode. Sensors and Actuators B: Chemical, 2013, 179, 194-200.	7.8	96
23	Electrochemical immunosensors in breast and ovarian cancer. Clinica Chimica Acta, 2013, 425, 128-138.	1.1	93
24	Latest Trends in Electrochemical Sensors for Neurotransmitters: A Review. Sensors, 2019, 19, 2037.	3.8	92
25	Emerging nanobiotechnology in agriculture for the management of pesticide residues. Journal of Hazardous Materials, 2021, 401, 123369.	12.4	90
26	Acetamiprid multidetection by disposable electrochemical DNA aptasensor. Talanta, 2016, 161, 15-21.	5.5	87
27	A label-free electrochemical affisensor for cancer marker detection: The case of HER2. Bioelectrochemistry, 2015, 106, 268-275.	4.6	81
28	Disposable electrochemical DNA-array for PCR amplified detection of hazelnut allergens in foodstuffs. Analytica Chimica Acta, 2008, 614, 93-102.	5.4	78
29	Coupling of an indicator-free electrochemical DNA biosensor with polymerase chain reaction for the detection of DNA sequences related to the apolipoprotein E. Analytica Chimica Acta, 2002, 469, 93-99.	5.4	74
30	An Electrochemical Immunoassay for HER2 Detection. Electroanalysis, 2012, 24, 735-742.	2.9	72
31	Quasi-monodimensional polyaniline nanostructures for enhanced molecularly imprinted polymer-based sensing. Biosensors and Bioelectronics, 2010, 26, 497-503.	10.1	71
32	DNA-Based Sensor for the Detection of an Organophosphorus Pesticide: Profenofos. Sensors, 2018, 18, 2035.	3.8	71
33	Smartphone-based immunosensor for CA125 detection. Talanta, 2017, 166, 234-240.	5.5	69
34	Electrochemical immunoassay based on aptamerâ€“protein interaction and functionalized polymer for cancer biomarker detection. Journal of Electroanalytical Chemistry, 2014, 717-718, 119-124.	3.8	65
35	Electrochemical DNA Probes. Analytical Letters, 1996, 29, 2309-2331.	1.8	62
36	Development of disposable low density screen-printed electrode arrays for simultaneous electrochemical measurements of the hybridisation reaction. Journal of Electroanalytical Chemistry, 2006, 593, 211-218.	3.8	60

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37	Amplified Electrochemical DNA Sensor Based on Polyaniline Film and Gold Nanoparticles. Electroanalysis, 2013, 25, 1373-1380.	2.9	60
38	Electrochemical, Electrochemiluminescence, and Photoelectrochemical Aptamer-Based Nanostructured Sensors for Biomarker Analysis. Biosensors, 2016, 6, 39.	4.7	59
39	CAâ€...125 Immunosensor Based on Polyâ€Anthranilic Acid Modified Screenâ€Printed Electrodes. Electroanalysis, 2013, 25, 269-277.	2.9	58
40	A New Electrochemical Multiplexed Assay for PSA Cancer Marker Detection. Electroanalysis, 2011, 23, 91-99.	2.9	57
41	Point-of-Care Strategies for Detection of Waterborne Pathogens. Sensors, 2019, 19, 4476.	3.8	56
42	Steric Factors Controlling the Surface Hybridization of PCR Amplified Sequences. Analytical Chemistry, 2005, 77, 6324-6330.	6.5	53
43	Enzyme-amplified electrochemical hybridization assay based on PNA, LNA and DNA probe-modified micro-magnetic beads. Bioelectrochemistry, 2009, 76, 214-220.	4.6	52
44	Aligned carbon nanotube thin films for DNA electrochemical sensing. Electrochimica Acta, 2009, 54, 5035-5041.	5.2	52
45	Electrochemical Imaging of Localized Sandwich DNA Hybridization Using Scanning Electrochemical Microscopy. Analytical Chemistry, 2007, 79, 7206-7213.	6.5	50
46	Microfluidic-based electrochemical genosensor coupled to magnetic beads for hybridization detection. Talanta, 2009, 77, 971-978.	5.5	50
47	Measurement of volatile organic compounds (VOCs) in libraries and archives in Florence (Italy). Science of the Total Environment, 2016, 572, 333-339.	8.0	49
48	Electrochemical enzyme-linked oligonucleotide array for aflatoxin B1 detection. Talanta, 2019, 203, 49-57.	5.5	49
49	Disposable genosensor, a new tool for the detection of NOS-terminator, a genetic element present in GMOs. Food Control, 2004, 15, 621-626.	5.5	47
50	Colorimetric multienzymatic smart sensors for hydrogen peroxide, glucose and catechol screening analysis. Talanta, 2019, 204, 525-532.	5.5	45
51	Gold and Magnetic Nanoparticles-Based Electrochemical Biosensors for Cancer Biomarker Determination. Journal of Nanoscience and Nanotechnology, 2015, 15, 3307-3319.	0.9	44
52	Dendritic-like Streptavidin/Alkaline Phosphatase Nanoarchitectures for Amplified Electrochemical Sensing of DNA Sequences. Langmuir, 2006, 22, 4305-4309.	3.5	43
53	Molecular Imprinted Polymers Prepared by Electropolymerization of Ni-(Protoporphyrin IX). Analytical Letters, 1998, 31, 1809-1824.	1.8	41
54	In vitro assessment of antibody-conjugated gold nanorods for systemic injections. Journal of Nanobiotechnology, 2014, 12, 55.	9.1	41

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55	Nano-Biosensing Platforms for Detection of Cowâ€™s Milk Allergens: An Overview. Sensors, 2020, 20, 32.	3.8	41
56	Electrochemical Nanocomposite Single-Use Sensor for Dopamine Detection. Sensors, 2019, 19, 3097.	3.8	40
57	Nanovehicles for Plant Modifications towards Pest- and Disease-Resistance Traits. Trends in Plant Science, 2020, 25, 198-212.	8.8	38
58	Aptasensors for lysozyme detection: Recent advances. Talanta, 2021, 226, 122169.	5.5	37
59	A new gravityâ€driven microfluidicâ€based electrochemical assay coupled to magnetic beads for nucleic acid detection. Electrophoresis, 2010, 31, 3727-3736.	2.4	36
60	Recent advances of immunosensors for detecting food allergens. Current Opinion in Electrochemistry, 2018, 10, 149-156.	4.8	36
61	Amperometric determination of glucose in undiluted food samples. Analytica Chimica Acta, 1991, 242, 91-98.	5.4	35
62	A DNA Aptasensor for Electrochemical Detection of Vascular Endothelial Growth Factor. Journal of Nanoscience and Nanotechnology, 2015, 15, 3411-3416.	0.9	35
63	Aptamer Sensors. Biosensors, 2017, 7, 5.	4.7	35
64	DNA Biosensor Investigations in Fish Bile for Use as a Biomonitoring Tool. Analytical Letters, 2003, 36, 1887-1901.	1.8	32
65	Benzene analysis in workplace air using an FIA-based bacterial biosensor. Biosensors and Bioelectronics, 2005, 20, 2089-2096.	10.1	32
66	Disposable Electrochemical Enzymeâ€Amplified Genosensor forSalmonellaBacteria Detection. Analytical Letters, 2005, 38, 2509-2523.	1.8	31
67	NEW PROCEDURES TO OBTAIN ELECTROCHEMICAL SENSORS FOR HEAVY METAL DETECTION. Analytical Letters, 2001, 34, 813-824.	1.8	30
68	An Optimized Bioassay for Mucin1 Detection in Serum Samples. Electroanalysis, 2015, 27, 1594-1601.	2.9	28
69	Bio-inspired fish robot based on chemical sensors. Sensors and Actuators B: Chemical, 2017, 239, 325-329.	7.8	28
70	Betaâ€lactoglobulin Electrochemical Detection Based with an Innovative Platform Based on Composite Polymer. Electroanalysis, 2020, 32, 217-225.	2.9	28
71	Mycotoxins aptasensing: From molecular docking to electrochemical detection of deoxynivalenol. Bioelectrochemistry, 2021, 138, 107691.	4.6	27
72	Detection of human apolipoprotein E genotypes by DNA biosensors coupled with PCR. Clinica Chimica Acta, 2001, 307, 241-248.	1.1	24

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73	Biosensors and Related Bioanalytical Tools. Comprehensive Analytical Chemistry, 2017, 77, 1-33.	1.3	23
74	Folding-Based Electrochemical Aptasensor for the Determination of Î²-Lactoglobulin on Poly-L-Lysine Modified Graphite Electrodes. Sensors, 2020, 20, 2349.	3.8	20
75	DNA sensing technology a useful food scanning tool. TrAC - Trends in Analytical Chemistry, 2022, 154, 116679.	11.4	20
76	Design of an Affibody-Based Recognition Strategy for Human Epidermal Growth Factor Receptor 2 (HER2) Detection by Electrochemical Biosensors. Chemosensors, 2016, 4, 23.	3.6	19
77	Improved potentiometric determination of potassium in whole blood and serum with a valinomycin-treated silicone-rubber tubular electrode. Analytica Chimica Acta, 1990, 231, 125-128.	5.4	18
78	Evaluation of an FIA Operated Amperometric Bacterial Biosensor, Based on Pseudomonas Putida F1 for the Detection of Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX). Analytical Letters, 2005, 38, 1531-1547.	1.8	18
79	Electrochemical Detection of Vascular Endothelial Growth Factor by Molecularly Imprinted Polymer. Electroanalysis, 2019, 31, 1458-1464.	2.9	18
80	Electrochemical Immunosensors for Disease Detection and Diagnosis. Current Medicinal Chemistry, 2018, 25, 4119-4137.	2.4	17
81	Polymer-Mercury Coated Screen-Printed Sensors for Electrochemical Stripping Analysis of Heavy Metals. International Journal of Environmental Analytical Chemistry, 2003, 83, 701-711.	3.3	16
82	A disposable voltammetric immunosensor based on magnetic beads for early diagnosis of soybean rust. Sensors and Actuators B: Chemical, 2012, 166-167, 135-140.	7.8	16
83	Micro-flow Immunosensor Based on Thin-film Interdigitated Gold Array Microelectrodes for Cancer Biomarker Detection. Current Drug Delivery, 2016, 13, 400-408.	1.6	16
84	l- and d-Lactate assay in real milk samples with immobilized enzyme reactors and graphite electrode. Talanta, 1994, 41, 1007-1014.	5.5	15
85	Cannabinoid receptor gene detection by electrochemical genosensor. Journal of Electroanalytical Chemistry, 2011, 656, 55-60.	3.8	15
86	NADH electrochemical sensor for the enzymatic determination ofL- andD-lactate and 3-hydroxybutyrate using a flow injection analysis. Electroanalysis, 1994, 6, 221-226.	2.9	12
87	Design of an optimal allele-specific oligonucleotide probe for the efficient discrimination of a thermodynamically stable (GÂ·T) mismatch. Analytica Chimica Acta, 2007, 603, 82-86.	5.4	12
88	Split hybridisation probes for electrochemical typing of single-nucleotide polymorphisms. Analyst, The, 2009, 134, 52-59.	3.5	11
89	Silicone-based calcium-selective electrode. Electroanalysis, 1992, 4, 41-43.	2.9	10
90	Nanostructured Screen Printed Graphite Electrode for the Development of a Novel Electrochemical Genosensor. Electroanalysis, 2013, 25, 507-514.	2.9	10

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91	Biosensor Potential in Pesticide Monitoring. Comprehensive Analytical Chemistry, 2016, 74, 3-31.	1.3	10
92	Electrochemical Fingerprint of Arsenic (III) by Using Hybrid Nanocomposite-Based Platforms. Sensors, 2019, 19, 2279.	3.8	10
93	NanoMIP-based approach for the suppression of interference signals in electrochemical sensors. Analyst, The, 2019, 144, 7290-7295.	3.5	10
94	Poly-L-Lysine@gold nanostructured hybrid platform for Lysozyme aptamer sandwich-based detection. Electrochimica Acta, 2022, 403, 139718.	5.2	10
95	Flow Injection Analysis of Benzene Using an Amperometric Bacterial Biosensor. Analytical Letters, 2004, 37, 1515-1528.	1.8	9
96	A Fast Electrochemical Technique for Characterization of Phenolic Content in Wine. Analytical Letters, 2010, 43, 1190-1198.	1.8	8
97	Insight into the antifungal effect of chitosan-conjugated metal oxide nanoparticles decorated on cellulosic foam filter for water filtration. International Journal of Food Microbiology, 2022, 372, 109677.	4.7	8
98	Recent Advances on DNA Biosensors. International Journal of Environmental Analytical Chemistry, 2001, 80, 87-99.	3.3	7
99	Electrochemical Sandwich Immunoassay for the Ultrasensitive Detection of Human MUC1 Cancer Biomarker. International Journal of Electrochemistry, 2013, 2013, 1-6.	2.4	7
100	Interconversion between [2Feâ€“2S] and [4Feâ€“4S] cluster glutathione complexes. Chemical Communications, 2022, 58, 3533-3536.	4.1	7
101	Nanosensors in Biomarker Detection. , 2019, , 327-380.		5
102	Carbon Electrodes in DNA Hybridisation Research. Perspectives in Bioanalysis, 2005, , 279-296.	0.3	3
103	Chapter 25 Coupling of screen-printed electrodes and magnetic beads for rapid and sensitive immunodetection: polychlorinated biphenyls analysis in environmental samples. Comprehensive Analytical Chemistry, 2007, 49, 585-602.	1.3	3
104	Procedure 25 PCB analysis using immunosensors based on magnetic beads and carbon screen-printed electrodes in marine sediment and soil samples. Comprehensive Analytical Chemistry, 2007, 49, e179-e184.	1.3	3
105	One-Dimensional Polyaniline Nanotubes for Enhanced Chemical and Biochemical Sensing. Lecture Notes in Electrical Engineering, 2011, , 311-315.	0.4	3
106	ELECTROCHEMICAL DEVICE FOR THE DETECTION OF GENOTOXIC COMPOUNDS IN FISH BILE SAMPLES. , 2005, , .		3
107	A Mercuryâ€Free Sensor to Control Trace Metal Ionization Used to Treat Pathogens in Water Distribution Systems. Electroanalysis, 2012, 24, 882-888.	2.9	2
108	To the memory of Marco Mascini: His contribution in the field of biosensors. TrAC - Trends in Analytical Chemistry, 2016, 79, 2-8.	11.4	2

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109	SnO<inf>2</inf> nanowire bio-transistor for electrical DNA sensing. , 2007, , .		1
110	Polyaniline Modified Thin-film Array for Sensor Applications. Lecture Notes in Electrical Engineering, 2015, , 123-127.	0.4	1
111	DNA technology for small molecules sensing: a new approach for Acetamiprid detection. , 2015, , .		1
112	Electrochemical DNA-Based Sensor for Organophosphorus Pesticides Detection. Lecture Notes in Electrical Engineering, 2019, , 111-115.	0.4	1
113	Electrochemiluminescent and photoelectrochemical aptasensors based on quantum dots for mycotoxins and pesticides analysis. , 2021, , 185-208.		1
114	Towards bio-nanotransistors for electrical DNA sensing. , 2006, , .		0
115	A <I>Special Section</I> on Analytical Aspects of Nanoscience and Nanotechnology. Journal of Nanoscience and Nanotechnology, 2015, 15, 3305-3306.	0.9	0
116	Bio-inspired Artificial Muscle Based on Chemical Sensors. Procedia Technology, 2017, 27, 161-162.	1.1	0
117	Rapid Electrochemical Sensors And Biosensors For Environmental Analysis. , 2003, , .		0
118	DEVELOPMENT OF RAPID IMMUNOASSAY TESTS BY USING A MICRO-ANALYTICAL FLOW SYSTEM COUPLED WITH ELECTROCHEMICAL DETECTION. , 2008, , .		0
119	DEVELOPMENT OF LABEL FREE GENOMAGNETIC ELECTROCHEMICAL SENSOR. , 2008, , .		0
120	Electrochemical Immunoassay for Mucin 1 Detection as a Diagnostic Tool in Ovarian Cancer. Lecture Notes in Electrical Engineering, 2014, , 165-168.	0.4	0
121	Electrochemical Sensors Based on Conducting Polymers: Characterization and Applications. Lecture Notes in Electrical Engineering, 2020, , 233-237.	0.4	0
122	A Smart Colorimetric Sensor for the Enzymatic Detection of L-Lactate in Screening Analysis. Proceedings (mdpi), 2020, 60, .	0.2	0