

Giovanna Marrazza

List of Publications by Year in descending order

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122
papers

6,704
citations

50276

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64796

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133
docs citations

133
times ranked

6330
citing authors

#	ARTICLE	IF	CITATIONS
1	Poly-L-Lysine@gold nanostructured hybrid platform for Lysozyme aptamer sandwich-based detection. <i>Electrochimica Acta</i> , 2022, 403, 139718.	5.2	10
2	Interconversion between [2Fe@2S] and [4Fe@4S] cluster glutathione complexes. <i>Chemical Communications</i> , 2022, 58, 3533-3536.	4.1	7
3	Insight into the antifungal effect of chitosan-conjugated metal oxide nanoparticles decorated on cellulosic foam filter for water filtration. <i>International Journal of Food Microbiology</i> , 2022, 372, 109677.	4.7	8
4	DNA sensing technology a useful food scanning tool. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 154, 116679.	11.4	20
5	Emerging nanobiotechnology in agriculture for the management of pesticide residues. <i>Journal of Hazardous Materials</i> , 2021, 401, 123369.	12.4	90
6	Mycotoxins aptasensing: From molecular docking to electrochemical detection of deoxynivalenol. <i>Bioelectrochemistry</i> , 2021, 138, 107691.	4.6	27
7	Aptasensors for lysozyme detection: Recent advances. <i>Talanta</i> , 2021, 226, 122169.	5.5	37
8	Electrochemiluminescent and photoelectrochemical aptasensors based on quantum dots for mycotoxins and pesticides analysis. , 2021, , 185-208.		1
9	Beta-lactoglobulin Electrochemical Detection Based with an Innovative Platform Based on Composite Polymer. <i>Electroanalysis</i> , 2020, 32, 217-225.	2.9	28
10	Nanovehicles for Plant Modifications towards Pest- and Disease-Resistance Traits. <i>Trends in Plant Science</i> , 2020, 25, 198-212.	8.8	38
11	Nano-Biosensing Platforms for Detection of Cow's Milk Allergens: An Overview. <i>Sensors</i> , 2020, 20, 32.	3.8	41
12	Green synthesis of metal-organic frameworks: A state-of-the-art review of potential environmental and medical applications. <i>Coordination Chemistry Reviews</i> , 2020, 420, 213407.	18.8	256
13	Folding-Based Electrochemical Aptasensor for the Determination of β -Lactoglobulin on Poly-L-Lysine Modified Graphite Electrodes. <i>Sensors</i> , 2020, 20, 2349.	3.8	20
14	Electrochemical Sensors Based on Conducting Polymers: Characterization and Applications. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 233-237.	0.4	0
15	A Smart Colorimetric Sensor for the Enzymatic Detection of L-Lactate in Screening Analysis. <i>Proceedings (mdpi)</i> , 2020, 60, .	0.2	0
16	Electrochemical Nanocomposite Single-Use Sensor for Dopamine Detection. <i>Sensors</i> , 2019, 19, 3097.	3.8	40
17	Point-of-Care Strategies for Detection of Waterborne Pathogens. <i>Sensors</i> , 2019, 19, 4476.	3.8	56
18	Electrochemical DNA-Based Sensor for Organophosphorus Pesticides Detection. <i>Lecture Notes in Electrical Engineering</i> , 2019, , 111-115.	0.4	1

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19	Nanosensors in Biomarker Detection. , 2019, , 327-380.		5
20	Colorimetric multienzymatic smart sensors for hydrogen peroxide, glucose and catechol screening analysis. Talanta, 2019, 204, 525-532.	5.5	45
21	Electrochemical Fingerprint of Arsenic (III) by Using Hybrid Nanocomposite-Based Platforms. Sensors, 2019, 19, 2279.	3.8	10
22	Latest Trends in Electrochemical Sensors for Neurotransmitters: A Review. Sensors, 2019, 19, 2037.	3.8	92
23	Electrochemical Detection of Vascular Endothelial Growth Factor by Molecularly Imprinted Polymer. Electroanalysis, 2019, 31, 1458-1464.	2.9	18
24	Electrochemical enzyme-linked oligonucleotide array for aflatoxin B1 detection. Talanta, 2019, 203, 49-57.	5.5	49
25	NanoMIP-based approach for the suppression of interference signals in electrochemical sensors. Analyst, The, 2019, 144, 7290-7295.	3.5	10
26	Nano-based smart pesticide formulations: Emerging opportunities for agriculture. Journal of Controlled Release, 2019, 294, 131-153.	9.9	424
27	Electrochemical Immunosensors for Disease Detection and Diagnosis. Current Medicinal Chemistry, 2018, 25, 4119-4137.	2.4	17
28	DNA-Based Sensor for the Detection of an Organophosphorus Pesticide: Profenofos. Sensors, 2018, 18, 2035.	3.8	71
29	Recent advances of immunosensors for detecting food allergens. Current Opinion in Electrochemistry, 2018, 10, 149-156.	4.8	36
30	Smartphone-based immunosensor for CA125 detection. Talanta, 2017, 166, 234-240.	5.5	69
31	Electrochemical aptasensors for contaminants detection in food and environment: Recent advances. Bioelectrochemistry, 2017, 118, 47-61.	4.6	129
32	Bio-inspired Artificial Muscle Based on Chemical Sensors. Procedia Technology, 2017, 27, 161-162.	1.1	0
33	Biosensors and Related Bioanalytical Tools. Comprehensive Analytical Chemistry, 2017, 77, 1-33.	1.3	23
34	Bio-inspired fish robot based on chemical sensors. Sensors and Actuators B: Chemical, 2017, 239, 325-329.	7.8	28
35	MIP-Based Sensors: Promising New Tools for Cancer Biomarker Determination. Sensors, 2017, 17, 718.	3.8	123
36	Aptamer Sensors. Biosensors, 2017, 7, 5.	4.7	35

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37	Design of an Affibody-Based Recognition Strategy for Human Epidermal Growth Factor Receptor 2 (HER2) Detection by Electrochemical Biosensors. <i>Chemosensors</i> , 2016, 4, 23.	3.6	19
38	Electrochemical, Electrochemiluminescence, and Photoelectrochemical Aptamer-Based Nanostructured Sensors for Biomarker Analysis. <i>Biosensors</i> , 2016, 6, 39.	4.7	59
39	Acetamidrid multidetection by disposable electrochemical DNA aptasensor. <i>Talanta</i> , 2016, 161, 15-21.	5.5	87
40	Biosensor Potential in Pesticide Monitoring. <i>Comprehensive Analytical Chemistry</i> , 2016, 74, 3-31.	1.3	10
41	Measurement of volatile organic compounds (VOCs) in libraries and archives in Florence (Italy). <i>Science of the Total Environment</i> , 2016, 572, 333-339.	8.0	49
42	Binding affinity of amyloid oligomers to cellular membranes is a generic indicator of cellular dysfunction in protein misfolding diseases. <i>Scientific Reports</i> , 2016, 6, 32721.	3.3	107
43	To the memory of Marco Mascini: His contribution in the field of biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 2-8.	11.4	2
44	Micro-flow Immunosensor Based on Thin-film Interdigitated Gold Array Microelectrodes for Cancer Biomarker Detection. <i>Current Drug Delivery</i> , 2016, 13, 400-408.	1.6	16
45	An Optimized Bioassay for Mucin1 Detection in Serum Samples. <i>Electroanalysis</i> , 2015, 27, 1594-1601.	2.9	28
46	A <l>Special Section</l> on Analytical Aspects of Nanoscience and Nanotechnology. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3305-3306.	0.9	0
47	Polyaniline Modified Thin-film Array for Sensor Applications. <i>Lecture Notes in Electrical Engineering</i> , 2015, , 123-127.	0.4	1
48	A label-free electrochemical affisensor for cancer marker detection: The case of HER2. <i>Bioelectrochemistry</i> , 2015, 106, 268-275.	4.6	81
49	DNA technology for small molecules sensing: a new approach for Acetamidrid detection. , 2015, , .		1
50	A DNA Aptasensor for Electrochemical Detection of Vascular Endothelial Growth Factor. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3411-3416.	0.9	35
51	Gold and Magnetic Nanoparticles-Based Electrochemical Biosensors for Cancer Biomarker Determination. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3307-3319.	0.9	44
52	In vitro assessment of antibody-conjugated gold nanorods for systemic injections. <i>Journal of Nanobiotechnology</i> , 2014, 12, 55.	9.1	41
53	Electrochemical immunoassay based on aptamerâ€“protein interaction and functionalized polymer for cancer biomarker detection. <i>Journal of Electroanalytical Chemistry</i> , 2014, 717-718, 119-124.	3.8	65
54	Piezoelectric Biosensors for Organophosphate and Carbamate Pesticides: A Review. <i>Biosensors</i> , 2014, 4, 301-317.	4.7	102

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55	Electrochemical Immunoassay for Mucin 1 Detection as a Diagnostic Tool in Ovarian Cancer. Lecture Notes in Electrical Engineering, 2014, , 165-168.	0.4	0
56	Electrochemical detection of miRNA-222 by use of a magnetic bead-based bioassay. Analytical and Bioanalytical Chemistry, 2013, 405, 1025-1034.	3.7	113
57	Nanostructured Screen Printed Graphite Electrode for the Development of a Novel Electrochemical Genosensor. Electroanalysis, 2013, 25, 507-514.	2.9	10
58	Electrochemical immunosensors in breast and ovarian cancer. Clinica Chimica Acta, 2013, 425, 128-138.	1.1	93
59	New label free CA125 detection based on gold nanostructured screen-printed electrode. Sensors and Actuators B: Chemical, 2013, 179, 194-200.	7.8	96
60	CA125 Immunosensor Based on Polyanthranilic Acid Modified Screen-Printed Electrodes. Electroanalysis, 2013, 25, 269-277.	2.9	58
61	Amplified Electrochemical DNA Sensor Based on Polyaniline Film and Gold Nanoparticles. Electroanalysis, 2013, 25, 1373-1380.	2.9	60
62	Electrochemical Sandwich Immunoassay for the Ultrasensitive Detection of Human MUC1 Cancer Biomarker. International Journal of Electrochemistry, 2013, 2013, 1-6.	2.4	7
63	An Electrochemical Immunoassay for HER2 Detection. Electroanalysis, 2012, 24, 735-742.	2.9	72
64	A Mercury-Free Sensor to Control Trace Metal Ionization Used to Treat Pathogens in Water Distribution Systems. Electroanalysis, 2012, 24, 882-888.	2.9	2
65	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
66	A New Electrochemical Multiplexed Assay for PSA Cancer Marker Detection. Electroanalysis, 2011, 23, 91-99.	2.9	57
67	Cannabinoid receptor gene detection by electrochemical genosensor. Journal of Electroanalytical Chemistry, 2011, 656, 55-60.	3.8	15
68	One-Dimensional Polyaniline Nanotubes for Enhanced Chemical and Biochemical Sensing. Lecture Notes in Electrical Engineering, 2011, , 311-315.	0.4	3
69	A new gravity-driven microfluidic-based electrochemical assay coupled to magnetic beads for nucleic acid detection. Electrophoresis, 2010, 31, 3727-3736.	2.4	36
70	Quasi-monodimensional polyaniline nanostructures for enhanced molecularly imprinted polymer-based sensing. Biosensors and Bioelectronics, 2010, 26, 497-503.	10.1	71
71	A Fast Electrochemical Technique for Characterization of Phenolic Content in Wine. Analytical Letters, 2010, 43, 1190-1198.	1.8	8
72	Enzyme-amplified electrochemical hybridization assay based on PNA, LNA and DNA probe-modified micro-magnetic beads. Bioelectrochemistry, 2009, 76, 214-220.	4.6	52

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73	Aligned carbon nanotube thin films for DNA electrochemical sensing. <i>Electrochimica Acta</i> , 2009, 54, 5035-5041.	5.2	52
74	Microfluidic-based electrochemical genosensor coupled to magnetic beads for hybridization detection. <i>Talanta</i> , 2009, 77, 971-978.	5.5	50
75	Split hybridisation probes for electrochemical typing of single-nucleotide polymorphisms. <i>Analyst</i> , 2009, 134, 52-59.	3.5	11
76	Electrochemical and piezoelectric DNA biosensors for hybridisation detection. <i>Analytica Chimica Acta</i> , 2008, 609, 139-159.	5.4	240
77	Disposable electrochemical DNA-array for PCR amplified detection of hazelnut allergens in foodstuffs. <i>Analytica Chimica Acta</i> , 2008, 614, 93-102.	5.4	78
78	DEVELOPMENT OF RAPID IMMUNOASSAY TESTS BY USING A MICRO-ANALYTICAL FLOW SYSTEM COUPLED WITH ELECTROCHEMICAL DETECTION. , 2008, , .		0
79	DEVELOPMENT OF LABEL FREE GENOMAGNETIC ELECTROCHEMICAL SENSOR. , 2008, , .		0
80	SnO ₂ nanowire bio-transistor for electrical DNA sensing. , 2007, , .		1
81	Chapter 25 Coupling of screen-printed electrodes and magnetic beads for rapid and sensitive immunodetection: polychlorinated biphenyls analysis in environmental samples. <i>Comprehensive Analytical Chemistry</i> , 2007, 49, 585-602.	1.3	3
82	Procedure 25 PCB analysis using immunosensors based on magnetic beads and carbon screen-printed electrodes in marine sediment and soil samples. <i>Comprehensive Analytical Chemistry</i> , 2007, 49, e179-e184.	1.3	3
83	Electrochemical Imaging of Localized Sandwich DNA Hybridization Using Scanning Electrochemical Microscopy. <i>Analytical Chemistry</i> , 2007, 79, 7206-7213.	6.5	50
84	Design of an optimal allele-specific oligonucleotide probe for the efficient discrimination of a thermodynamically stable (G·T) mismatch. <i>Analytica Chimica Acta</i> , 2007, 603, 82-86.	5.4	12
85	Disposable electrochemical genosensor for the simultaneous analysis of different bacterial food contaminants. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1544-1549.	10.1	121
86	Towards bio-nanotransistors for electrical DNA sensing. , 2006, , .		0
87	Dendritic-like Streptavidin/Alkaline Phosphatase Nanoarchitectures for Amplified Electrochemical Sensing of DNA Sequences. <i>Langmuir</i> , 2006, 22, 4305-4309.	3.5	43
88	Investigations of the antioxidant properties of plant extracts using a DNA-electrochemical biosensor. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1374-1382.	10.1	98
89	Development of disposable low density screen-printed electrode arrays for simultaneous electrochemical measurements of the hybridisation reaction. <i>Journal of Electroanalytical Chemistry</i> , 2006, 593, 211-218.	3.8	60
90	Carbon Electrodes in DNA Hybridisation Research. <i>Perspectives in Bioanalysis</i> , 2005, , 279-296.	0.3	3

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91	Enzyme-based impedimetric detection of PCR products using oligonucleotide-modified screen-printed gold electrodes. <i>Biosensors and Bioelectronics</i> , 2005, 20, 2001-2009.	10.1	100
92	Benzene analysis in workplace air using an FIA-based bacterial biosensor. <i>Biosensors and Bioelectronics</i> , 2005, 20, 2089-2096.	10.1	32
93	Disposable Electrochemical Enzyme-Enhanced Genosensor for Salmonella Bacteria Detection. <i>Analytical Letters</i> , 2005, 38, 2509-2523.	1.8	31
94	Steric Factors Controlling the Surface Hybridization of PCR Amplified Sequences. <i>Analytical Chemistry</i> , 2005, 77, 6324-6330.	6.5	53
95	Evaluation of an FIA Operated Amperometric Bacterial Biosensor, Based on Pseudomonas Putida F1 for the Detection of Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX). <i>Analytical Letters</i> , 2005, 38, 1531-1547.	1.8	18
96	ELECTROCHEMICAL DEVICE FOR THE DETECTION OF GENOTOXIC COMPOUNDS IN FISH BILE SAMPLES. , 2005, , .		3
97	Carbon and gold electrodes as electrochemical transducers for DNA hybridisation sensors. <i>Biosensors and Bioelectronics</i> , 2004, 19, 515-530.	10.1	368
98	Oligonucleotide-modified screen-printed gold electrodes for enzyme-amplified sensing of nucleic acids. <i>Biosensors and Bioelectronics</i> , 2004, 20, 167-175.	10.1	165
99	Flow Injection Analysis of Benzene Using an Amperometric Bacterial Biosensor. <i>Analytical Letters</i> , 2004, 37, 1515-1528.	1.8	9
100	Disposable genosensor, a new tool for the detection of NOS-terminator, a genetic element present in GMOs. <i>Food Control</i> , 2004, 15, 621-626.	5.5	47
101	DNA Biosensor Investigations in Fish Bile for Use as a Biomonitoring Tool. <i>Analytical Letters</i> , 2003, 36, 1887-1901.	1.8	32
102	Polymer-Mercury Coated Screen-Printed Sensors for Electrochemical Stripping Analysis of Heavy Metals. <i>International Journal of Environmental Analytical Chemistry</i> , 2003, 83, 701-711.	3.3	16
103	Rapid Electrochemical Sensors And Biosensors For Environmental Analysis. , 2003, , .		0
104	Electrochemical DNA biosensor as a screening tool for the detection of toxicants in water and wastewater samples. <i>Talanta</i> , 2002, 56, 949-957.	5.5	117
105	Electrochemical DNA biosensor for analysis of wastewater samples. <i>Bioelectrochemistry</i> , 2002, 58, 113-118.	4.6	101
106	Coupling of an indicator-free electrochemical DNA biosensor with polymerase chain reaction for the detection of DNA sequences related to the apolipoprotein E. <i>Analytica Chimica Acta</i> , 2002, 469, 93-99.	5.4	74
107	NEW PROCEDURES TO OBTAIN ELECTROCHEMICAL SENSORS FOR HEAVY METAL DETECTION. <i>Analytical Letters</i> , 2001, 34, 813-824.	1.8	30
108	Detection of human apolipoprotein E genotypes by DNA biosensors coupled with PCR. <i>Clinica Chimica Acta</i> , 2001, 307, 241-248.	1.1	24

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109	Recent Advances on DNA Biosensors. International Journal of Environmental Analytical Chemistry, 2001, 80, 87-99.	3.3	7
110	DNA electrochemical biosensors. Fresenius' Journal of Analytical Chemistry, 2001, 369, 15-22.	1.5	188
111	Electrochemical DNA biosensor for environmental monitoring. Analytica Chimica Acta, 2001, 427, 155-164.	5.4	150
112	Detection of Human Apolipoprotein E Genotypes by DNA Electrochemical Biosensor Coupled with PCR. Clinical Chemistry, 2000, 46, 31-37.	3.2	155
113	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
114	Disposable DNA electrochemical biosensors for environmental monitoring. Analytica Chimica Acta, 1999, 387, 297-307.	5.4	202
115	Molecular Imprinted Polymers Prepared by Electropolymerization of Ni-(Protoporphyrin IX). Analytical Letters, 1998, 31, 1809-1824.	1.8	41
116	Electrochemical DNA Probes. Analytical Letters, 1996, 29, 2309-2331.	1.8	62
117	NADH electrochemical sensor for the enzymatic determination of L- and D-lactate and 3-hydroxybutyrate using a flow injection analysis. Electroanalysis, 1994, 6, 221-226.	2.9	12
118	L- and d-Lactate assay in real milk samples with immobilized enzyme reactors and graphite electrode. Talanta, 1994, 41, 1007-1014.	5.5	15
119	Ink-jet printing for the fabrication of amperometric glucose biosensors. Analytica Chimica Acta, 1992, 262, 13-17.	5.4	149
120	Silicone-based calcium-selective electrode. Electroanalysis, 1992, 4, 41-43.	2.9	10
121	Amperometric determination of glucose in undiluted food samples. Analytica Chimica Acta, 1991, 242, 91-98.	5.4	35
122	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