

Ilaria Palchetti

List of Publications by Year in descending order

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129
papers

5,476
citations

76031

42
h-index

97045

71
g-index

143
all docs

143
docs citations

143
times ranked

6480
citing authors

#	ARTICLE	IF	CITATIONS
1	Editorial: Electrochemical aptasensors are gaining momentum. <i>Electrochimica Acta</i> , 2022, 401, 139520.	2.6	1
2	Nitroimidazole-Based Ruthenium(II) Complexes: Playing with Structural Parameters to Design Photostable and Light-Responsive Antibacterial Agents. <i>Inorganic Chemistry</i> , 2022, 61, 6689-6694.	1.9	20
3	Au Nanoparticles Decorated Graphene-Based Hybrid Nanocomposite for As(III) Electroanalytical Detection. <i>Chemosensors</i> , 2022, 10, 67.	1.8	7
4	Electrochemical sensors based on sewage sludge-derived biochar for the analysis of anthocyanins in berry fruits. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 6295-6307.	1.9	7
5	Bicyclic peptide-based assay for uPA cancer biomarker. <i>Biosensors and Bioelectronics</i> , 2022, 213, 114477.	5.3	6
6	Chip-Based and Wearable Tools for Isothermal Amplification and Electrochemical Analysis of Nucleic Acids. <i>Chemosensors</i> , 2022, 10, 278.	1.8	6
7	Gold nanoparticles modified graphene platforms for highly sensitive electrochemical detection of vitamin C in infant food and formulae. <i>Food Chemistry</i> , 2021, 344, 128692.	4.2	40
8	Electrochemical and PEC platforms for miRNA and other epigenetic markers of cancer diseases: Recent updates. <i>Electrochemistry Communications</i> , 2021, 124, 106929.	2.3	23
9	Soft Tissue Sarcoma: An Insight on Biomarkers at Molecular, Metabolic and Cellular Level. <i>Cancers</i> , 2021, 13, 3044.	1.7	20
10	The Role of Peptides in the Design of Electrochemical Biosensors for Clinical Diagnostics. <i>Biosensors</i> , 2021, 11, 246.	2.3	48
11	Stimulation of Ca ²⁺ -ATPase Transport Activity by a Small Molecule Drug. <i>ChemMedChem</i> , 2021, 16, 3293-3299.	1.6	15
12	Advances in Antimicrobial Resistance Monitoring Using Sensors and Biosensors: A Review. <i>Chemosensors</i> , 2021, 9, 232.	1.8	23
13	A simple and selective electrochemical magneto-assay for sea lice eDNA detection developed with a Quality by Design approach. <i>Science of the Total Environment</i> , 2021, 791, 148111.	3.9	7
14	A simple spectroscopic method to determine dimethoate in water samples by complex formation. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2020, 55, 310-318.	0.7	3
15	Determination of Glyphosate in Water from a Rural Locality in Mexico and Its Implications for the Population Based on Water Consumption and Use Habits. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 7102.	1.2	24
16	Sustainable Printed Electrochemical Platforms for Greener Analytics. <i>Frontiers in Chemistry</i> , 2020, 8, 644.	1.8	29
17	Optical whispering gallery mode resonators for label-free detection of water contaminants. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 126, 115856.	5.8	18
18	Functional polymers in photoelectrochemical biosensing. <i>Bioelectrochemistry</i> , 2020, 136, 107590.	2.4	38

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19	The Translational Potential of Electrochemical DNA-Based Liquid Biopsy. <i>Frontiers in Chemistry</i> , 2020, 8, 143.	1.8	21
20	Label-Free Bioelectrochemical Methods for Evaluation of Anticancer Drug Effects at a Molecular Level. <i>Sensors</i> , 2020, 20, 1812.	2.1	15
21	Solvent Dispersible Nanocomposite Based on RGO Surface Decorated with Au Nanoparticles for Electrochemical Genosensors. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2020, , 225-234.	0.2	0
22	Au nanoparticle <i>in situ</i> decorated RGO nanocomposites for highly sensitive electrochemical genosensors. <i>Journal of Materials Chemistry B</i> , 2019, 7, 768-777.	2.9	25
23	Spectrophotometric Detection of Glyphosate in Water by Complex Formation between Bis 5-Phenyldipyrrinate of Nickel (II) and Glyphosate. <i>Water (Switzerland)</i> , 2019, 11, 719.	1.2	16
24	Nanotoxicity assessment: A challenging application for cutting edge electroanalytical tools. <i>Analytica Chimica Acta</i> , 2019, 1072, 61-74.	2.6	20
25	Trends and Perspectives in Immunosensors for Determination of Currently-Used Pesticides: The Case of Glyphosate, Organophosphates, and Neonicotinoids. <i>Biosensors</i> , 2019, 9, 20.	2.3	73
26	Optical and Electrochemical Study of Acridine-Based Polyaza Ligands for Anion Sensing. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 2675-2679.	1.0	13
27	Ascorbic acid-sensitized Au nanorods-functionalized nanostructured TiO ₂ transparent electrodes for photoelectrochemical genosensing. <i>Electrochimica Acta</i> , 2018, 276, 389-398.	2.6	29
28	Glyphosate Determination by Coupling an Immuno-Magnetic Assay with Electrochemical Sensors. <i>Sensors</i> , 2018, 18, 2965.	2.1	43
29	Innovative Biocatalysts as Tools to Detect and Inactivate Nerve Agents. <i>Scientific Reports</i> , 2018, 8, 13773.	1.6	13
30	Photoelectrochemical genosensors for the determination of nucleic acid cancer biomarkers. <i>Current Opinion in Electrochemistry</i> , 2018, 12, 51-59.	2.5	27
31	Electrochemical Hybridization-Based Biosensor in Environmental Monitoring. , 2018, , 353-374.		1
32	Evaluation of a QuEChERS-like extraction approach for the determination of PBDEs in mussels by immuno-assay-based screening methods. <i>Talanta</i> , 2017, 170, 540-545.	2.9	6
33	Enhanced photoactivity and conductivity in transparent TiO ₂ nanocrystals/graphene hybrid anodes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9307-9315.	5.2	18
34	Nanostructured Photoelectrochemical Biosensing Platform for Cancer Biomarker Detection. <i>Procedia Technology</i> , 2017, 27, 144-145.	1.1	3
35	Biosensors and Related Bioanalytical Tools. <i>Comprehensive Analytical Chemistry</i> , 2017, 77, 1-33.	0.7	23
36	Imidazo[1,2-a]pyrazin-8-amine core for the design of new adenosine receptor antagonists: Structural exploration to target the A3 and A2A subtypes. <i>European Journal of Medicinal Chemistry</i> , 2017, 125, 611-628.	2.6	17

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37	Direct determination of small RNAs using a biotinylated polythiophene impedimetric genosensor. <i>Biosensors and Bioelectronics</i> , 2017, 87, 1012-1019.	5.3	51
38	TiO ₂ nanocrystals decorated CVD graphene for electroanalytical sensing. , 2017, , .		0
39	Electrochemical, Electrochemiluminescence, and Photoelectrochemical Aptamer-Based Nanostructured Sensors for Biomarker Analysis. <i>Biosensors</i> , 2016, 6, 39.	2.3	59
40	TiO ₂ Nanocrystals Decorated CVD Graphene Based Hybrid for UV-Light Active Photoanodes. <i>Procedia Engineering</i> , 2016, 168, 396-402.	1.2	4
41	Improving impedimetric nucleic acid detection by using enzyme-decorated liposomes and nanostructured screen-printed electrodes. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 7271-7281.	1.9	31
42	Development of an Electrochemical Immunoassay for the Detection of Polybrominated Diphenyl Ethers (PBDEs). <i>Electroanalysis</i> , 2016, 28, 1817-1823.	1.5	14
43	Health and carcinogenic risk evaluation for cohorts exposed to PAHs in petrochemical workplaces in Rawalpindi city (Pakistan). <i>International Journal of Environmental Health Research</i> , 2016, 26, 37-57.	1.3	25
44	Strategies for the development of an electrochemical bioassay for TNF-alpha detection by using a non-immunoglobulin bioreceptor. <i>Talanta</i> , 2016, 151, 141-147.	2.9	51
45	To the memory of Marco Mascini: His contribution in the field of biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 2-8.	5.8	2
46	Emerging Biosensor for Pesticide Detection. <i>Advanced Sciences and Technologies for Security Applications</i> , 2016, , 431-442.	0.4	2
47	New Trends in the Design of Enzyme-based Biosensors for Medical Applications. <i>Mini-Reviews in Medicinal Chemistry</i> , 2016, 16, 1125-1133.	1.1	18
48	DNA-Surfactant Thin-Film Processing and Characterization. , 2016, , 192-243.		0
49	A Genosensor for Point Mutation Detection of P53 Gene PCR Product Using Magnetic Particles. <i>Electroanalysis</i> , 2015, 27, 1378-1386.	1.5	35
50	Different enzyme-based strategies for the development of disposable electrochemical biosensors: Application to environmental pollutant monitoring. , 2015, , .		0
51	A <I>Special Section</I> on Analytical Aspects of Nanoscience and Nanotechnology. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3305-3306.	0.9	0
52	Different strategies for the detection of bioagents using electrochemical and photoelectrochemical genosensors. , 2015, , .		0
53	Alkaline-Phosphatase-Based Nanostructure Assemblies for Electrochemical Detection of microRNAs. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3378-3384.	0.9	16
54	Label-Free Impedimetric Determination of miRNA Using Biotinylated Conducting Polymer Modified Carbon Electrodes. <i>Lecture Notes in Electrical Engineering</i> , 2015, , 59-64.	0.3	1

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55	Electrochemical Biosensors for miRNA Detection. RNA Technologies, 2015, , 1-19.	0.2	0
56	Photoelectrochemical Biosensors for Nucleic Acid Detection. Journal of Nanoscience and Nanotechnology, 2015, 15, 3320-3332.	0.9	24
57	Detection of biomarkers for inflammatory diseases by an electrochemical immunoassay: The case of neopterin. Talanta, 2015, 134, 48-53.	2.9	18
58	Self-powered microneedle-based biosensors for pain-free high-accuracy measurement of glycaemia in interstitial fluid. Biosensors and Bioelectronics, 2015, 66, 162-168.	5.3	114
59	Affinity biosensors for tumor-marker analysis. Bioanalysis, 2014, 6, 3417-3435.	0.6	27
60	New Affinity Biosensors as Diagnostic Tools for Tumour Marker Analysis. Lecture Notes in Electrical Engineering, 2014, , 19-23.	0.3	1
61	Cell surface display of organophosphorus hydrolase for sensitive spectrophotometric detection of p-nitrophenol substituted organophosphates. Enzyme and Microbial Technology, 2014, 55, 107-112.	1.6	62
62	Biosensors, Electrochemical. , 2014, , 136-140.		1
63	Electrochemical detection of miRNA-222 by use of a magnetic bead-based bioassay. Analytical and Bioanalytical Chemistry, 2013, 405, 1025-1034.	1.9	113
64	A review on the electrochemical biosensors for determination of microRNAs. Talanta, 2013, 115, 74-83.	2.9	113
65	Microbial surface display of glucose dehydrogenase for amperometric glucose biosensor. Biosensors and Bioelectronics, 2013, 45, 19-24.	5.3	71
66	Direct energy conversion from xylose using xylose dehydrogenase surface displayed bacteria based enzymatic biofuel cell. Biosensors and Bioelectronics, 2013, 44, 160-163.	5.3	41
67	Electrochemical bioassay for the detection of TNF- α using magnetic beads and disposable screen-printed array of electrodes. Bioanalysis, 2013, 5, 11-19.	0.6	48
68	Ion Selective Electrodes: Enzyme Electrodes. , 2013, , .		0
69	Microcantilever-based Biosensor Array for Tumor Angiogenic Marker Detection. , 2012, , 59-77.		1
70	Introduction of an Electrochemical Genosensor for Detection of P53 Gene Via Sandwich Hybridization Method. Lecture Notes in Electrical Engineering, 2012, , 37-41.	0.3	9
71	A Mercury-Free Sensor to Control Trace Metal Ionization Used to Treat Pathogens in Water Distribution Systems. Electroanalysis, 2012, 24, 882-888.	1.5	2
72	Electrochemical nanomaterial-based nucleic acid aptasensors. Analytical and Bioanalytical Chemistry, 2012, 402, 3103-3114.	1.9	99

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73	PBDEs in Italian sewage sludge and environmental risk of using sewage sludge for land application. <i>Environmental Pollution</i> , 2012, 161, 229-234.	3.7	68
74	Dipyridine-Containing Macrocylic Polyamine - Nafion-Modified Screen-Printed Carbon Electrode for Voltammetric Detection of Lead. <i>Electroanalysis</i> , 2012, 24, 591-599.	1.5	8
75	Nucleic Acid and Peptide Aptamers: Fundamentals and Bioanalytical Aspects. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1316-1332.	7.2	315
76	Chapter 1. Biosensor Techniques for Environmental Monitoring. , 2011, , 1-16.		4
77	Chapter 3. Genosensing Environmental Pollution. , 2011, , 34-60.		1
78	Chapter 9. Conclusions and Criticisms. , 2011, , 165-167.		0
79	A new gravity-driven microfluidic-based electrochemical assay coupled to magnetic beads for nucleic acid detection. <i>Electrophoresis</i> , 2010, 31, 3727-3736.	1.3	36
80	Electrochemical nucleic acid-based biosensors: Concepts, terms, and methodology (IUPAC Technical) <i>Trends in Analytical Chemistry</i> , 2010, 10, 10-20.	0.9	200
81	Biosensor Technology: A Brief History. <i>Lecture Notes in Electrical Engineering</i> , 2010, , 15-23.	0.3	14
82	Development of an Aptamer-Based Electrochemical Sandwich Assay for the Detection of a Clinical Biomarker. <i>Lecture Notes in Electrical Engineering</i> , 2010, , 207-210.	0.3	2
83	Detection of C Reactive Protein (CRP) in Serum by an Electrochemical Aptamer-Based Sandwich Assay. <i>Electroanalysis</i> , 2009, 21, 1309-1315.	1.5	98
84	Enzyme-amplified electrochemical hybridization assay based on PNA, LNA and DNA probe-modified micro-magnetic beads. <i>Bioelectrochemistry</i> , 2009, 76, 214-220.	2.4	52
85	Novel enzyme biosensor for hydrogen peroxide via supramolecular associations. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2028-2033.	5.3	32
86	Aligned carbon nanotube thin films for DNA electrochemical sensing. <i>Electrochimica Acta</i> , 2009, 54, 5035-5041.	2.6	52
87	Microfluidic-based electrochemical genosensor coupled to magnetic beads for hybridization detection. <i>Talanta</i> , 2009, 77, 971-978.	2.9	50
88	Electrochemical Biosensor Technology: Application to Pesticide Detection. <i>Methods in Molecular Biology</i> , 2009, 504, 115-126.	0.4	27
89	Disposable Electrochemical Biosensors for Environmental Analysis. , 2009, , 115-140.		0
90	Different approaches for the detection of thrombin by an electrochemical aptamer-based assay coupled to magnetic beads. <i>Biosensors and Bioelectronics</i> , 2008, 23, 1602-1609.	5.3	94

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91	Electroanalytical biosensors and their potential for food pathogen and toxin detection. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 455-471.	1.9	201
92	Disposable electrodes modified with multi-wall carbon nanotubes for biosensor applications. <i>Irbm</i> , 2008, 29, 202-207.	3.7	26
93	Disposable electrochemical DNA-array for PCR amplified detection of hazelnut allergens in foodstuffs. <i>Analytica Chimica Acta</i> , 2008, 614, 93-102.	2.6	78
94	Electrochemical behavior of colchicine using graphite-based screen-printed electrodes. <i>Talanta</i> , 2008, 76, 288-294.	2.9	29
95	Amperometric Biosensor for Pathogenic Bacteria Detection. , 2008, , 299-312.		9
96	Nucleic acid biosensors for environmental pollution monitoring. <i>Analyst, The</i> , 2008, 133, 846.	1.7	203
97	As(III) Voltammetric Detection by Means of Disposable Screen-Printed Gold Electrochemical Sensors. <i>Analytical Letters</i> , 2007, 40, 3002-3013.	1.0	24
98	Electrochemical Imaging of Localized Sandwich DNA Hybridization Using Scanning Electrochemical Microscopy. <i>Analytical Chemistry</i> , 2007, 79, 7206-7213.	3.2	50
99	Evaluation of pesticide-induced acetylcholinesterase inhibition by means of disposable carbon-modified electrochemical biosensors. <i>Enzyme and Microbial Technology</i> , 2007, 40, 485-489.	1.6	66
100	Polychlorinated biphenyls (PCBs) detection in milk samples by an electrochemical magneto-immunosensor (EMI) coupled to solid-phase extraction (SPE) and disposable low-density arrays. <i>Analytica Chimica Acta</i> , 2007, 594, 9-16.	2.6	60
101	Disposable electrochemical genosensor for the simultaneous analysis of different bacterial food contaminants. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1544-1549.	5.3	121
102	A disposable electrochemical sensor for vanillin detection. <i>Analytica Chimica Acta</i> , 2006, 555, 134-138.	2.6	75
103	Gold-based screen-printed sensor for detection of trace lead. <i>Sensors and Actuators B: Chemical</i> , 2006, 114, 460-465.	4.0	168
104	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.	1.9	60
105	Miniaturised stripping-based carbon modified sensor for in field analysis of heavy metals. <i>Analytica Chimica Acta</i> , 2005, 530, 61-67.	2.6	111
106	On the electrochemical flow measurements using carbon-based screen-printed electrodiffusion probes. <i>Journal of Applied Electrochemistry</i> , 2005, 35, 599-607.	1.5	7
107	Biosensor for Defence Against Terrorism. , 2005, , 245-259.		0
108	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.	2.8	47

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109	DETECTION OF HEAVY METALS USING DISPOSABLE MODIFIED ELECTROCHEMICAL SENSORS. , 2004, , .		0
110	Disposable electrochemical sensor for rapid determination of heavy metals in herbal drugs. Journal of Pharmaceutical and Biomedical Analysis, 2003, 32, 251-256.	1.4	33
111	Polymer-Mercury Coated Screen-Printed Sensors for Electrochemical Stripping Analysis of Heavy Metals. International Journal of Environmental Analytical Chemistry, 2003, 83, 701-711.	1.8	16
112	Rapid Electrochemical Sensors And Biosensors For Environmental Analysis. , 2003, , .		0
113	Electrochemical DNA biosensor as a screening tool for the detection of toxicants in water and wastewater samples. Talanta, 2002, 56, 949-957.	2.9	117
114	Electrochemical DNA biosensor for analysis of wastewater samples. Bioelectrochemistry, 2002, 58, 113-118.	2.4	101
115	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.	2.6	74
116	INDICATOR-FREE ELECTROCHEMICAL DNA BIOSENSOR FOR THE DETECTION OF HYBRIDISATION REACTION. , 2002, , .		0
117	NEW PROCEDURES TO OBTAIN ELECTROCHEMICAL SENSORS FOR HEAVY METAL DETECTION. Analytical Letters, 2001, 34, 813-824.	1.0	30
118	DNA electrochemical biosensors. Fresenius' Journal of Analytical Chemistry, 2001, 369, 15-22.	1.5	188
119	Amperometric separation-free immunosensor for real-time environmental monitoring. Analytica Chimica Acta, 2001, 427, 173-180.	2.6	47
120	Electrochemical application of DNA biosensors. , 2001, , .		0
121	POLYPHENOLS DETERMINATION IN OLIVE OIL SAMPLES BASED ON A THICK FILM VOLTAMMETRIC SENSOR AND A TYROSINASE BIOSENSOR. , 2000, , .		0
122	Electrochemical sensor and biosensor for polyphenols detection in olive oils. Food Chemistry, 2000, 71, 553-562.	4.2	232
123	Disposable Screen-Printed Electrodes (Spe) Mercury-Free for Lead Detection. Analytical Letters, 2000, 33, 1231-1246.	1.0	44
124	Determination of Anticholinesterase Activity for Pesticides Monitoring Using a Thiocholine Sensor. International Journal of Environmental Analytical Chemistry, 2000, 78, 263-278.	1.8	36
125	Disposable strip potentiometric electrodes with solvent-polymeric ion-selective membranes fabricated using screen-printing technology. Analytica Chimica Acta, 1999, 385, 451-459.	2.6	52
126	Determination of anticholinesterase pesticides in real samples using a disposable biosensor. Analytica Chimica Acta, 1997, 337, 315-321.	2.6	190

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127	Ruthenized screen-printed choline oxidase-based biosensors for measurement of anticholinesterase activity. <i>Mikrochimica Acta</i> , 1995, 121, 155-166.	2.5	41
128	Disposable ruthenized screen-printed biosensors for pesticides monitoring. <i>Sensors and Actuators B: Chemical</i> , 1995, 24, 85-89.	4.0	99
129	Electrochemical Adsorption Technique for Immobilization of Single-Stranded Oligonucleotides onto Carbon Screen-Printed Electrodes. , 0, , 27-43.		10