

Riccarda Antiochia

List of Publications by Year in descending order

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97
papers

3,735
citations

94433

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138484

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all docs

97
docs citations

97
times ranked

5075
citing authors

#	ARTICLE	IF	CITATIONS
1	Beyond graphene: Electrochemical sensors and biosensors for biomarkers detection. <i>Biosensors and Bioelectronics</i> , 2017, 89, 152-166.	10.1	316
2	An Extended Method for the Practical Evaluation of the Standard Rate Constant from Cyclic Voltammetric Data. <i>Electroanalysis</i> , 2004, 16, 505-506.	2.9	290
3	Microneedle-based biosensor for minimally-invasive lactate detection. <i>Biosensors and Bioelectronics</i> , 2019, 123, 152-159.	10.1	164
4	Development of a carbon nanotube paste electrode osmium polymer-mediated biosensor for determination of glucose in alcoholic beverages. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2611-2617.	10.1	117
5	Single-Wall Carbon Nanotube Paste Electrodes: a Comparison with Carbon Paste, Platinum and Glassy Carbon Electrodes via Cyclic Voltammetric Data. <i>Electroanalysis</i> , 2004, 16, 1451-1458.	2.9	105
6	An Overview of the Latest Graphene-Based Sensors for Glucose Detection: the Effects of Graphene Defects. <i>Electroanalysis</i> , 2015, 27, 16-31.	2.9	91
7	Minimally Invasive Microneedle-based Biosensor Array for Simultaneous Lactate and Glucose Monitoring in Artificial Interstitial Fluid. <i>Electroanalysis</i> , 2019, 31, 374-382.	2.9	87
8	Green Synthesis and Characterization of Gold and Silver Nanoparticles and their Application for Development of a Third Generation Lactose Biosensor. <i>Electroanalysis</i> , 2017, 29, 77-86.	2.9	78
9	Developments in biosensors for CoV detection and future trends. <i>Biosensors and Bioelectronics</i> , 2021, 173, 112777.	10.1	78
10	Nanobiosensors as new diagnostic tools for SARS, MERS and COVID-19: from past to perspectives. <i>Mikrochimica Acta</i> , 2020, 187, 639.	5.0	77
11	Direct Electron Transfer of Dehydrogenases for Development of 3rd Generation Biosensors and Enzymatic Fuel Cells. <i>Sensors</i> , 2018, 18, 1319.	3.8	75
12	A Glucose/Oxygen Enzymatic Fuel Cell based on Gold Nanoparticles modified Graphene Screen-Printed Electrode. Proof-of-Concept in Human Saliva. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 921-930.	7.8	72
13	A Third Generation Glucose Biosensor Based on Cellobiose Dehydrogenase Immobilized on a Glassy Carbon Electrode Decorated with Electrodeposited Gold Nanoparticles: Characterization and Application in Human Saliva. <i>Sensors</i> , 2017, 17, 1912.	3.8	67
14	Minimally Invasive Glucose Monitoring Using a Highly Porous Gold Microneedles-Based Biosensor: Characterization and Application in Artificial Interstitial Fluid. <i>Catalysts</i> , 2019, 9, 580.	3.5	66
15	Amperometric Biosensors for Detection of Sugars Based on the Electrical Wiring of Different Pyranose Oxidases and Pyranose Dehydrogenases with Osmium Redox Polymer on Graphite Electrodes. <i>Electroanalysis</i> , 2007, 19, 294-302.	2.9	65
16	Amperometric Mediated Carbon Nanotube Paste Biosensor for Fructose Determination. <i>Analytical Letters</i> , 2004, 37, 1657-1669.	1.8	63
17	DNA-based biosensors for Hg ²⁺ determination by polythymine-methylene blue modified electrodes. <i>Biosensors and Bioelectronics</i> , 2015, 67, 524-531.	10.1	63
18	Bubble electrodeposition of gold porous nanocorals for the enzymatic and non-enzymatic detection of glucose. <i>Bioelectrochemistry</i> , 2016, 112, 125-131.	4.6	61

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19	Highly Sensitive Membraneless Fructose Biosensor Based on Fructose Dehydrogenase Immobilized onto Aryl Thiol Modified Highly Porous Gold Electrode: Characterization and Application in Food Samples. <i>Analytical Chemistry</i> , 2018, 90, 12131-12136.	6.5	58
20	Electrochemical determination of pharmaceuticals in spiked water samples. <i>Journal of Hazardous Materials</i> , 2005, 122, 219-225.	12.4	56
21	The use of vetiver for remediation of heavy metal soil contamination. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 947-956.	3.7	55
22	Rapid and direct determination of fructose in food: A new osmium-polymer mediated biosensor. <i>Food Chemistry</i> , 2013, 140, 742-747.	8.2	55
23	A new osmium-polymer modified screen-printed graphene electrode for fructose detection. <i>Sensors and Actuators B: Chemical</i> , 2014, 195, 287-293.	7.8	55
24	Inhibition-based biosensor for atrazine detection. <i>Sensors and Actuators B: Chemical</i> , 2016, 224, 552-558.	7.8	54
25	Microneedle-based electrochemical devices for transdermal biosensing: a review. <i>Current Opinion in Electrochemistry</i> , 2019, 16, 42-49.	4.8	51
26	Untargeted NMR-Based Methodology in the Study of Fruit Metabolites. <i>Molecules</i> , 2015, 20, 4088-4108.	3.8	50
27	Recent advances in Third Generation Biosensors based on Au and Pt Nanostructured Electrodes. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 151-159.	11.4	47
28	Determination of lactose by a novel third generation biosensor based on a cellobiose dehydrogenase and aryl diazonium modified single wall carbon nanotubes electrode. <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 64-69.	7.8	46
29	NMR methodologies in the analysis of blueberries. <i>Electrophoresis</i> , 2014, 35, 1615-1626.	2.4	46
30	Untargeted and targeted methodologies in the study of tea (<i>Camellia sinensis</i> L.). <i>Food Research International</i> , 2014, 63, 275-289.	6.2	44
31	Electrochemical Characterization of Graphene and MWCNT Screen-Printed Electrodes Modified with AuNPs for Laccase Biosensor Development. <i>Nanomaterials</i> , 2015, 5, 1995-2006.	4.1	44
32	Improved DET communication between cellobiose dehydrogenase and a gold electrode modified with a rigid self-assembled monolayer and green metal nanoparticles: The role of an ordered nanostructuring. <i>Biosensors and Bioelectronics</i> , 2017, 88, 196-203.	10.1	44
33	AuNPs-functionalized PANABA-MWCNTs nanocomposite-based impedimetric immunosensor for 2,4-dichlorophenoxy acetic acid detection. <i>Biosensors and Bioelectronics</i> , 2017, 93, 52-56.	10.1	44
34	Enhanced Direct Electron Transfer of Fructose Dehydrogenase Rationally Immobilized on a 2-Aminoanthracene Diazonium Cation Grafted Single-Walled Carbon Nanotube Based Electrode. <i>ACS Catalysis</i> , 2018, 8, 10279-10289.	11.2	43
35	Functionalized Tyrosinase-Lignin Nanoparticles as Sustainable Catalysts for the Oxidation of Phenols. <i>Nanomaterials</i> , 2018, 8, 438.	4.1	41
36	Layer-by-Layer Preparation of Microcapsules and Nanocapsules of Mixed Polyphenols with High Antioxidant and UV-Shielding Properties. <i>Biomacromolecules</i> , 2018, 19, 3883-3893.	5.4	40

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37	Paper-Based Biosensors: Frontiers in Point-of-Care Detection of COVID-19 Disease. <i>Biosensors</i> , 2021, 11, 110.	4.7	39
38	The influence of pH and divalent/monovalent cations on the internal electron transfer (IET), enzymatic activity, and structure of fructose dehydrogenase. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 3253-3264.	3.7	35
39	Layer by layer supported laccase on lignin nanoparticles catalyzes the selective oxidation of alcohols to aldehydes. <i>Catalysis Science and Technology</i> , 2019, 9, 4125-4134.	4.1	33
40	Metal Oxide Nanoparticle Based Electrochemical Sensor for Total Antioxidant Capacity (TAC) Detection in Wine Samples. <i>Biosensors</i> , 2018, 8, 108.	4.7	32
41	Lignin nanoparticles are renewable and functional platforms for the concanavalin a oriented immobilization of glucose oxidaseâ€peroxidase in cascade bio-sensing. <i>RSC Advances</i> , 2020, 10, 29031-29042.	3.6	31
42	Electrocatalytic oxidation of NADH at single-wall carbon-nanotube-paste electrodes: kinetic considerations for use of a redox mediator in solution and dissolved in the paste. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 381, 1355-1361.	3.7	30
43	Bilirubin Oxidase from <i>Myrothecium verrucaria</i> Physically Absorbed on Graphite Electrodes. Insights into the Alternative Resting Form and the Sources of Activity Loss. <i>PLoS ONE</i> , 2015, 10, e0132181.	2.5	30
44	Amine oxidase-based biosensors for spermine and spermidine determination. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 1131-1137.	3.7	29
45	Purification and sensor applications of an oxygen insensitive, thermophilic diaphorase. <i>Analytica Chimica Acta</i> , 1997, 345, 17-28.	5.4	27
46	Alcohol Biosensor Based on the Immobilization of Meldola Blue and Alcohol Dehydrogenase into a Carbon Nanotube Paste Electrode. <i>Analytical Letters</i> , 2006, 39, 1643-1655.	1.8	27
47	A Calibration-Base Method for the Evaluation of the Detection Limit of an Electrochemical Biosensor. <i>Electroanalysis</i> , 2007, 19, 1227-1230.	2.9	27
48	Tracing the origin of beer samples by NMR and chemometrics: Trappist beers as a case study. <i>Electrophoresis</i> , 2016, 37, 2710-2719.	2.4	27
49	A comparison between the use of a redox mediator in solution and of surface modified electrodes in the electrocatalytic oxidation of nicotinamide adenine dinucleotide. <i>Bioelectrochemistry</i> , 2004, 64, 157-163.	4.6	26
50	Versatile and Efficient Immobilization of 2-Deoxyribose-5-phosphate Aldolase (DERA) on Multiwalled Carbon Nanotubes. <i>ACS Catalysis</i> , 2014, 4, 3059-3068.	11.2	26
51	Biocide Activity of Green Quercetin-Mediated Synthesized Silver Nanoparticles. <i>Nanomaterials</i> , 2020, 10, 909.	4.1	24
52	Nanotechnology-Based Surface Plasmon Resonance Affinity Biosensors for <i>In Vitro</i> Diagnostics. <i>International Journal of Analytical Chemistry</i> , 2016, 2016, 1-15.	1.0	23
53	Highly sensitive, stable and selective hydrogen peroxide amperometric biosensors based on peroxidases from different sources wired by Os-polymer: A comparative study. <i>Solid State Ionics</i> , 2018, 314, 178-186.	2.7	23
54	A Tri-Enzyme Electrode Probe for the Sequential Determination of Fructose and Glucose in the Same Sample. <i>Analytical Letters</i> , 1997, 30, 683-697.	1.8	22

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55	Recent trends in electrochemical nanobiosensors for environmental analysis. <i>International Journal of Environment and Health</i> , 2015, 7, 267.	0.3	22
56	A multi-analytical approach for the validation of a jellified electrolyte: Application to the study of ancient bronze patina. <i>Microchemical Journal</i> , 2017, 134, 154-163.	4.5	22
57	Inhibition-based first-generation electrochemical biosensors: theoretical aspects and application to 2,4-dichlorophenoxy acetic acid detection. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 3203-3211.	3.7	21
58	Nanostructure-Based Electrochemical Immunosensors as Diagnostic Tools. <i>Electrochem</i> , 2021, 2, 10-28.	3.3	21
59	Kinetic and Thermodynamic Aspects of NAD-Related Enzyme-Linked Mediated Bioelectrocatalysis. <i>Electroanalysis</i> , 2002, 14, 1256-1261.	2.9	19
60	Affinity-based biosensors in sport medicine and doping control analysis. <i>Bioanalysis</i> , 2014, 6, 225-245.	1.5	18
61	A Flow SPR Immunosensor Based on a Sandwich Direct Method. <i>Biosensors</i> , 2016, 6, 22.	4.7	18
62	Highly efficient synthesis of aldehydes by layer by layer multi-walled carbon nanotubes (MWCNTs) laccase mediator systems. <i>Applied Catalysis A: General</i> , 2015, 499, 77-88.	4.3	17
63	Pressureless sinterability study of ZrB ₂ -SiC composites containing hexagonal BN and phenolic resin additives. <i>Synthesis and Sintering</i> , 2021, 1, 99-104.	1.6	16
64	Microneedle-based nanoporous gold electrochemical sensor for real-time catecholamine detection. <i>Mikrochimica Acta</i> , 2022, 189, 180.	5.0	16
65	Electrocatalytic Oxidation of Dihyronicotinamide Adenine Dinucleotide with Ferrocene Carboxylic Acid by Diaphorase from <i>Clostridium kluyveri</i> . Remarks on the Kinetic Approaches Usually Adopted. <i>Electroanalysis</i> , 1999, 11, 129-133.	2.9	15
66	Catalase-Based Modified Graphite Electrode for Hydrogen Peroxide Detection in Different Beverages. <i>Journal of Analytical Methods in Chemistry</i> , 2016, 2016, 1-12.	1.6	15
67	Evaluation of novel Fmoc-tripeptide based hydrogels as immobilization supports for electrochemical biosensors. <i>Microchemical Journal</i> , 2018, 137, 105-110.	4.5	14
68	Comparison of Direct and Mediated Electron Transfer for Bilirubin Oxidase from <i>Myrothecium Verrucaria</i> . Effects of Inhibitors and Temperature on the Oxygen Reduction Reaction. <i>Catalysts</i> , 2019, 9, 1056.	3.5	14
69	A glucose/oxygen enzymatic fuel cell exceeding 1.5 V based on glucose dehydrogenase immobilized onto polyMethylene blue-carbon nanotubes modified double-sided screen printed electrodes: Proof-of-concept in human serum and saliva. <i>Journal of Power Sources</i> , 2020, 476, 228615.	7.8	14
70	Novel Amperometric Biosensor Based on Tyrosinase/Chitosan Nanoparticles for Sensitive and Interference-Free Detection of Total Catecholamine. <i>Biosensors</i> , 2022, 12, 519.	4.7	14
71	Electrochemical biosensors for SARS-CoV-2 detection: Voltametric or impedimetric transduction?. <i>Bioelectrochemistry</i> , 2022, 147, 108190.	4.6	12
72	Composite Material Based on Macroporous Polyaniline and Osmium Redox Complex for Biosensor Development. <i>Electroanalysis</i> , 2014, 26, 1623-1630.	2.9	10

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73	Determination of Enzyme Kinetic Constants for Electrochemically Mediated Enzyme Reactions. Application to the Diaphorase-Nicotinamide Adenine Dinucleotide System with p-Methylaminophenolsulfate as an Electron Carrier. <i>Electroanalysis</i> , 2001, 13, 582-586.	2.9	9
74	Undecenyl resorc[4]arene in the chair conformation as preorganized synthon for olefin metathesis. <i>RSC Advances</i> , 2013, 3, 17567.	3.6	9
75	Development of Carbon-Based Nano-Composite Materials for Direct Electron Transfer Based Biosensors. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3423-3428.	0.9	9
76	A bimetallic nanocoral Au decorated with Pt nanoflowers (bio)sensor for H ₂ O ₂ detection at low potential. <i>Methods</i> , 2017, 129, 89-95.	3.8	9
77	Novel Nanoarchitectures Based on Lignin Nanoparticles for Electrochemical Eco-Friendly Biosensing Development. <i>Nanomaterials</i> , 2021, 11, 718.	4.1	9
78	CYP-dependent Metabolism of Antitumor Pyrazolo[3,4-d]pyrimidine Derivatives Is Characterized by an Oxidative Dechlorination Reaction. <i>Drug Metabolism and Pharmacokinetics</i> , 2014, 29, 433-440.	2.2	7
79	Graphene and 2D-Like Nanomaterials: Different Biofunctionalization Pathways for Electrochemical Biosensor Development. , 2018, , 1-35.		7
80	Use of a Thermophile Desiccation-Tolerant Cyanobacterial Culture and Os Redox Polymer for the Preparation of Photocurrent Producing Anodes. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 900.	4.1	7
81	Gold Nanoparticles/Carbon Nanotubes and Gold Nanoporous as Novel Electrochemical Platforms for L-Ascorbic Acid Detection: Comparative Performance and Application. <i>Chemosensors</i> , 2021, 9, 229.	3.6	7
82	Rapid Determination of Sucrose in Fruit Juices: A New Sensitive Carbon Nanotube Paste Osmium-Polymer Mediated Biosensor. <i>Journal of Food Research</i> , 2014, 3, 101.	0.3	6
83	Affinity-based biosensors for pathogenic bacteria detection. <i>International Journal of Environmental Technology and Management</i> , 2015, 18, 185.	0.2	6
84	Evaluation of different storage processes of passion fruit (<i>Passiflora edulis</i> Sims) using a new dual biosensor platform based on a conducting polymer. <i>Microchemical Journal</i> , 2020, 154, 104573.	4.5	6
85	Laccase Mediator Cocktail System as a Sustainable Skin Whitening Agent for Deep Eumelanin Decolorization. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6238.	4.1	5
86	Application of a Nanostructured Enzymatic Biosensor Based on Fullerene and Gold Nanoparticles to Polyphenol Detection. <i>Methods in Molecular Biology</i> , 2017, 1572, 41-53.	0.9	4
87	Osmium-Polymer Modified Carbon Nanotube Paste Electrode for Detection of Sucrose and Fructose. <i>Materials Sciences and Applications</i> , 2013, 04, 15-22.	0.4	4
88	Spectrophotometric study of the reaction between cobalt(II)-dipeptide complexes and molecular oxygen. <i>Transition Metal Chemistry</i> , 1994, 19, 359.	1.4	3
89	Kinetic considerations on the electrogenerated luminescence of luminol at platinum electrode in the presence of hydrogen peroxide and oxygen. <i>Annali Di Chimica</i> , 2002, 92, 271-80.	0.6	3
90	The Interference of Oxygen on Diaphorase from <i>Clostridium kluyveri</i> in the Mediated Electrocatalytic Oxidation of Reduced Dihyronicotinamide Adenine Dinucleotide. <i>Electroanalysis</i> , 2003, 15, 1713-1718.	2.9	2

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91	Determination of oxygen permeability of food wrapping films by an amperometric sensor. International Journal of Environmental Analytical Chemistry, 2005, 85, 959-969.	3.3	2
92	Affinity-based biosensors for heavy metal detection. International Journal of Environment and Health, 2013, 6, 290.	0.3	2
93	A General Method for the Electrochemical Evaluation of the Bimolecular Rate Constant in Enzyme Catalyzed Reaction Kinetics. Electroanalysis, 2001, 13, 601-602.	2.9	1
94	Transdermal Microneedle Array-Based Biosensor for Real Time Simultaneous Lactate and Glucose Monitoring. Proceedings (mdpi), 2019, 15, 42.	0.2	1
95	One-step rapid synthesis of Au-Pt nanofems for electrochemical sensing and biosensing. , 2016, , .		0
96	A Comparative Study between Hydrogen Peroxide Amperometric Biosensors Based on Different Peroxidases Wired by Os-Polymer: Applications in Water, Milk and Human Urine. Proceedings (mdpi), 2017, 1, 699.	0.2	0
97	A comparison among three different analytical methods to test the scavenging properties of different integrators against radicalic stress. Pakistan Journal of Pharmaceutical Sciences, 2014, 27, 25-32.	0.2	0