

Alessandra Bonanni

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

6,222
citations

94433

37
h-index

66911

78
g-index

97
all docs

97
docs citations

97
times ranked

8447
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring graphene oxide intrinsic electroactivity to elucidate the non-covalent interactions with DNA oligonucleotides. <i>Chemical Communications</i> , 2022, 58, 2662-2665.	4.1	4
2	Rapid electrochemical detection of COVID-19 genomic sequence with dual-function graphene nanocolloids based biosensor. <i>FlatChem</i> , 2022, 32, 100336.	5.6	30
3	Electroactive nanocarbon materials as signaling tags for electrochemical PCR. <i>Talanta</i> , 2022, 245, 123479.	5.5	2
4	Fabrication of handmade paper sensor based on silver-cobalt doped copolymer-ionic liquid composite for monitoring of vitamin D3 level in real samples. <i>Microchemical Journal</i> , 2021, 161, 105789.	4.5	12
5	Effect of surface chemistry on bio-conjugation and bio-recognition abilities of 2D germanene materials. <i>Nanoscale</i> , 2021, 13, 1893-1903.	5.6	13
6	Functionalized Germanene-Based Nanomaterials for the Detection of Single Nucleotide Polymorphism. <i>ACS Applied Nano Materials</i> , 2021, 4, 5164-5175.	5.0	17
7	How 3D printing can boost advances in analytical and bioanalytical chemistry. <i>Mikrochimica Acta</i> , 2021, 188, 265.	5.0	21
8	Advances on the Use of Graphene as a Label for Electrochemical Biosensors. <i>ChemElectroChem</i> , 2020, 7, 4157-4157.	3.4	1
9	The potential of electrochemistry for the detection of coronavirus-induced infections. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 133, 116081.	11.4	42
10	Advances on the Use of Graphene as a Label for Electrochemical Biosensors. <i>ChemElectroChem</i> , 2020, 7, 4177-4185.	3.4	4
11	Electrochemical Polymerase Chain Reaction Using Electroactive Graphene Oxide Nanoparticles as Detection Labels. <i>ACS Applied Nano Materials</i> , 2020, 3, 5489-5498.	5.0	15
12	Electroactive Nanocarbon Can Simultaneously Work as Platform and Signal Generator for Label-Free Immunosensing. <i>ChemElectroChem</i> , 2019, 6, 3615-3620.	3.4	10
13	Electroactive Nanocarbon as Novel Label for DNA Analysis. <i>Proceedings (mdpi)</i> , 2019, 15, 34.	0.2	0
14	Unravelling the Aptamer-Analyte Interaction Dynamics through Fluorescence Quenching in Graphene Quantum Dots (GQDs) Based Homogeneous Assays. <i>ChemPlusChem</i> , 2019, 84, 420-426.	2.8	10
15	All-in-One: Electroactive Nanocarbon as Simultaneous Platform and Label for Single-Step Biosensing. <i>Chemistry - A European Journal</i> , 2018, 24, 6380-6385.	3.3	12
16	The Role of Surface Chemistry in Impedimetric Aptasensing. <i>ChemElectroChem</i> , 2018, 5, 3654-3659.	3.4	7
17	Investigation on the ability of heteroatom-doped graphene for biorecognition. <i>Nanoscale</i> , 2017, 9, 3530-3536.	5.6	8
18	Chemically Reduced Graphene Oxide for the Assessment of Food Quality: How the Electrochemical Platform Should Be Tailored to the Application. <i>Chemistry - A European Journal</i> , 2017, 23, 1930-1936.	3.3	7

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19	Doped Graphene for DNA Analysis: the Electrochemical Signal is Strongly Influenced by the Kind of Dopant and the Nucleobase Structure. <i>Scientific Reports</i> , 2016, 6, 33046.	3.3	25
20	Graphene and its electrochemistry – an update. <i>Chemical Society Reviews</i> , 2016, 45, 2458-2493.	38.1	366
21	Improving the Analytical Performance of Graphene Oxide towards the Assessment of Polyphenols. <i>Chemistry - A European Journal</i> , 2016, 22, 3830-3834.	3.3	25
22	Doped and undoped graphene platforms: the influence of structural properties on the detection of polyphenols. <i>Scientific Reports</i> , 2016, 6, 20673.	3.3	12
23	Strong dependence of fluorescence quenching on the transition metal in layered transition metal dichalcogenide nanoflakes for nucleic acid detection. <i>Analyst</i> , 2016, 141, 4654-4658.	3.5	25
24	Carboxylic Carbon Quantum Dots as a Fluorescent Sensing Platform for DNA Detection. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 1951-1957.	8.0	261
25	Chemically Modified Graphene: The Influence of Structural Properties on the Assessment of Antioxidant Capacity. <i>Chemistry - A European Journal</i> , 2015, 21, 11793-11798.	3.3	13
26	Transitional Metal/Chalcogen Dependant Interactions of Hairpin DNA with Transition Metal Dichalcogenides, MX_2 . <i>ChemPhysChem</i> , 2015, 16, 2304-2306.	2.1	14
27	DNA polymorphism sensitive impedimetric detection on gold-nanoislands modified electrodes. <i>Talanta</i> , 2015, 136, 95-101.	5.5	7
28	The dopant type and amount governs the electrochemical performance of graphene platforms for the antioxidant activity quantification. <i>Nanoscale</i> , 2015, 7, 9040-9045.	5.6	19
29	Mycotoxin Aptasensing Amplification by using Inherently Electroactive Graphene Oxide Nanoplatelet Labels. <i>ChemElectroChem</i> , 2015, 2, 743-747.	3.4	36
30	Exfoliated transition metal dichalcogenides (MoS_2 , $MoSe_2$, WS_2 , WSe_2): An electrochemical impedance spectroscopic investigation. <i>Electrochemistry Communications</i> , 2015, 50, 39-42.	4.7	62
31	Oxidation Debris in Graphene Oxide Is Responsible for Its Inherent Electroactivity. <i>ACS Nano</i> , 2014, 8, 4197-4204.	14.6	77
32	Molybdenum disulfide (MoS_2) nanoflakes as inherently electroactive labels for DNA hybridization detection. <i>Nanoscale</i> , 2014, 6, 11971-11975.	5.6	98
33	CVD graphene based immunosensor. <i>RSC Advances</i> , 2014, 4, 23952-23956.	3.6	14
34	Electrochemically reduced graphene nanoribbons: Interference from inherent electrochemistry of the material in DPV studies. <i>Electrochemistry Communications</i> , 2014, 46, 137-139.	4.7	8
35	Guest Editorial: Electrochemistry of Graphene. <i>Electroanalysis</i> , 2014, 26, 4-4.	2.9	0
36	Electrochemistry of Graphene and Related Materials. <i>Chemical Reviews</i> , 2014, 114, 7150-7188.	47.7	968

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37	Rational Design of Carboxyl Groups Perpendicularly Attached to a Graphene Sheet: A Platform for Enhanced Biosensing Applications. <i>Chemistry - A European Journal</i> , 2014, 20, 217-222.	3.3	43
38	Inherently electroactive graphene oxide nanoplatelets as labels for specific protein-target recognition. <i>Nanoscale</i> , 2013, 5, 7844.	5.6	29
39	An insight into the hybridization mechanism of hairpin DNA physically immobilized on chemically modified graphenes. <i>Analyst, The</i> , 2013, 138, 467-471.	3.5	11
40	Graphene platforms for the detection of caffeine in real samples. <i>Analytica Chimica Acta</i> , 2013, 804, 92-97.	5.4	46
41	High-resolution impedance spectroscopy for graphene characterization. <i>Electrochemistry Communications</i> , 2013, 26, 52-54.	4.7	29
42	Soldering DNA to graphene via 0, 1 and 2-point contacts: Electrochemical impedance spectroscopic investigation. <i>Electrochemistry Communications</i> , 2013, 28, 83-86.	4.7	5
43	Biorecognition on Graphene: Physical, Covalent, and Affinity Immobilization Methods Exhibiting Dramatic Differences. <i>Chemistry - an Asian Journal</i> , 2013, 8, 198-203.	3.3	31
44	Thrombin aptasensing with inherently electroactive graphene oxide nanoplatelets as labels. <i>Nanoscale</i> , 2013, 5, 4758.	5.6	55
45	Large-scale quantification of CVD graphene surface coverage. <i>Nanoscale</i> , 2013, 5, 2379.	5.6	47
46	Gold Nanospacers Greatly Enhance the Capacitance of Electrochemically Reduced Graphene. <i>ChemPlusChem</i> , 2012, 77, 71-73.	2.8	24
47	Graphene for impedimetric biosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2012, 37, 12-21.	11.4	140
48	Oxidation of DNA bases is influenced by their position in the DNA strand. <i>Electrochemistry Communications</i> , 2012, 22, 207-210.	4.7	13
49	Inherently Electroactive Graphene Oxide Nanoplatelets As Labels for Single Nucleotide Polymorphism Detection. <i>ACS Nano</i> , 2012, 6, 8546-8551.	14.6	113
50	DNA Sensors Employing Nanomaterials for Diagnostic Applications. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2012, , 189-216.	0.5	1
51	Nanoporous carbon as a sensing platform for DNA detection: The use of impedance spectroscopy for hairpin-DNA based assay. <i>RSC Advances</i> , 2012, 2, 1021-1024.	3.6	14
52	Electroactivity of graphene oxide on different substrates. <i>RSC Advances</i> , 2012, 2, 10575.	3.6	4
53	Impedimetric immunoglobulin G immunosensor based on chemically modified graphenes. <i>Nanoscale</i> , 2012, 4, 921-925.	5.6	54
54	Detection of DNA hybridization on chemically modified graphene platforms. <i>Analyst, The</i> , 2012, 137, 580-583.	3.5	54

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55	Impedimetric thrombin aptasensor based on chemically modified graphenes. <i>Nanoscale</i> , 2012, 4, 143-147.	5.6	69
56	Inherent Electrochemistry and Activation of Chemically Modified Graphenes for Electrochemical Applications. <i>Chemistry - an Asian Journal</i> , 2012, 7, 759-770.	3.3	37
57	On Oxygen-Containing Groups in Chemically Modified Graphenes. <i>Chemistry - A European Journal</i> , 2012, 18, 4541-4548.	3.3	69
58	Inside Cover: On Oxygen-Containing Groups in Chemically Modified Graphenes (<i>Chem. Eur. J.</i> 15/2012). <i>Chemistry - A European Journal</i> , 2012, 18, 4438-4438.	3.3	0
59	Lithium Aluminum Hydride as Reducing Agent for Chemically Reduced Graphene Oxides. <i>Chemistry of Materials</i> , 2012, 24, 2292-2298.	6.7	187
60	Surfactants used for dispersion of graphenes exhibit strong influence on electrochemical impedance spectroscopic response. <i>Electrochemistry Communications</i> , 2012, 16, 19-21.	4.7	16
61	Nucleic Acid Functionalized Graphene for Biosensing. <i>Chemistry - A European Journal</i> , 2012, 18, 1668-1673.	3.3	72
62	Influence of gold nanoparticle size (20–50 nm) upon its electrochemical behavior: an electrochemical impedance spectroscopic and voltammetric study. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 4980.	2.8	67
63	Chemically-modified graphenes for oxidation of DNA bases: analytical parameters. <i>Analyst, The</i> , 2011, 136, 4738.	3.5	38
64	Graphene Platform for Hairpin-DNA-Based Impedimetric Genosensing. <i>ACS Nano</i> , 2011, 5, 2356-2361.	14.6	289
65	Electrochemistry of folded graphene edges. <i>Nanoscale</i> , 2011, 3, 2256.	5.6	74
66	Electrochemistry at Chemically Modified Graphenes. <i>Chemistry - A European Journal</i> , 2011, 17, 10763-10770.	3.3	288
67	Use of nanomaterials for impedimetric DNA sensors: A review. <i>Analytica Chimica Acta</i> , 2010, 678, 7-17.	5.4	163
68	DNA hybridization detection by electrochemical impedance spectroscopy using interdigitated gold nanoelectrodes. <i>Mikrochimica Acta</i> , 2010, 170, 275-281.	5.0	55
69	Graphene for electrochemical sensing and biosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2010, 29, 954-965.	11.4	1,041
70	Impedimetric genosensing of DNA polymorphism correlated to cystic fibrosis: A comparison among different protocols and electrode surfaces. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1245-1251.	10.1	26
71	Rapid, Sensitive, and Label-Free Impedimetric Detection of a Single-Nucleotide Polymorphism Correlated to Kidney Disease. <i>Analytical Chemistry</i> , 2010, 82, 3772-3779.	6.5	22
72	Impedimetric detection of influenza A (H1N1) DNA sequence using carbon nanotubes platform and gold nanoparticles amplification. <i>Analyst, The</i> , 2010, 135, 1765.	3.5	49

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73	Impedimetric genosensors employing COOH-modified carbon nanotube screen-printed electrodes. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2885-2891.	10.1	59
74	Electrochemical immunosensor for the diagnosis of celiac disease. <i>Analytical Biochemistry</i> , 2009, 388, 229-234.	2.4	42
75	Impedimetric detection of double-tagged PCR products using novel amplification procedures based on gold nanoparticles and Protein G. <i>Analyst, The</i> , 2009, 134, 602-608.	3.5	26
76	Dual-Genic Hybridization Sensor Employing Electrochemical Impedance Spectroscopy. <i>Electroanalysis</i> , 2008, 20, 941-948.	2.9	15
77	Signal amplification for impedimetric genosensing using gold-streptavidin nanoparticles. <i>Electrochimica Acta</i> , 2008, 53, 4022-4029.	5.2	63
78	Evaluation of the antioxidant and prooxidant properties of several commercial dry spices by different analytical methods. <i>Food Chemistry</i> , 2007, 102, 751-758.	8.2	37
79	Application of the avidin-biotin interaction to immobilize DNA in the development of electrochemical impedance genosensors. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 851-861.	3.7	36
80	Genomagnetic assay based on label-free electrochemical detection using magneto-composite electrodes. <i>Sensors and Actuators B: Chemical</i> , 2006, 114, 591-598.	7.8	76
81	Impedimetric genosensors for the detection of DNA hybridization. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 1195-1201.	3.7	67
82	Derivative enzymatic-spectrophotometric method for choline containing phospholipid determination in human serum, bile and amniotic fluid: recovery data by standard addition method. <i>Microchemical Journal</i> , 2005, 79, 61-67.	4.5	1
83	Biosensors for determination of total and natural antioxidant capacity of red and white wines: comparison with other spectrophotometric and fluorimetric methods. <i>Biosensors and Bioelectronics</i> , 2004, 19, 641-651.	10.1	101
84	Biosensors for determination of total antioxidant capacity of phytotherapeutic integrators: comparison with other spectrophotometric, fluorimetric and voltammetric methods. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004, 35, 303-320.	2.8	22
85	Determination of choline containing phospholipids in serum, bile and amniotic fluids by the derivative enzymatic-spectrophotometric method. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004, 35, 399-407.	2.8	7
86	Comparison of fluorimetric, voltammetric and biosensor methods for the determination of total antioxidant capacity of drug products containing acetylsalicylic acid. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004, 36, 91-99.	2.8	36
87	Determination of antioxidant properties of aromatic herbs, olives and fresh fruit using an enzymatic sensor. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 375, 1011-1016.	3.7	53
88	Determination of the antioxidant capacity of samples of different types of tea, or of beverages based on tea or other herbal products, using a superoxide dismutase biosensor. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2003, 32, 725-736.	2.8	51