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Graphene Based Electrochemical Sensors and Biosensors: A Review

DOI: 10.1002/elan.200900571 Electroanalysis, 2010, 22, 1027-1036.

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2279	The electrochemical response of graphene sheets is independent of the number of layers from a single graphene sheet to multilayer stacked graphene platelets. <b>2010</b> , 5, 2355-7		65
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2277	Nitrogen-doped graphene and its electrochemical applications. <b>2010</b> , 20, 7491		934
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1527	Electrochemical modification of electrodes based on highly oriented carbon nanowalls. <b>2015</b> , 51, 963-975	8
1526	Graphene oxide nanoribbon-based sensors for the simultaneous bio-electrochemical enantiomeric resolution and analysis of amino acid biomarkers. <b>2015</b> , 68, 163-167	49
1525	Electrochemical deoxyribonucleic acid biosensor based on electrodeposited graphene and nickel oxide nanoparticle modified electrode for the detection of salmonella enteritidis gene sequence. <b>2015</b> , 49, 34-39	19

1524	Electrochemical Detection of a Cancer Biomarker mir-21 in Cell Lysates Using Graphene Modified Sensors. <i>Electroanalysis</i> , <b>2015</b> , 27, 317-326	3	39
1523	Nanostructuring graphene for controlled and reproducible functionalization. <b>2015</b> , 7, 1566-85		95
1522	Functionalized graphene-based biomimetic microsensor interfacing with living cells to sensitively monitor nitric oxide release. <b>2015</b> , 6, 1853-1858		50
1521	Graphene nanoribbon-based electrochemical sensors on screen-printed platforms. <b>2015</b> , 172, 2-6		34
1520	Voltammetric determination of immunosuppressive agent, azathioprine, by using a graphene-chitosan modified-glassy carbon electrode. <b>2015</b> , 51, 70-76		13
1519	Effects of graphene on seed germination and seedling growth. <b>2015</b> , 17, 1		90
1518	Electrochemistry of nonconjugated proteins and glycoproteins. Toward sensors for biomedicine and glycomics. <b>2015</b> , 115, 2045-108		223
1517	One-step and rapid synthesis of nitrogen and sulfur co-doped graphene for hydrogen peroxide and glucose sensing. <b>2015</b> , 742, 8-14		38
1516	Cu- and CuO-decorated graphene as a nanosensor for H2S detection at room temperature. <b>2015</b> , 636, 36-41		43
1515	Facile synthesis of porous bimetallic alloyed PdAg nanoflowers supported on reduced graphene oxide for simultaneous detection of ascorbic acid, dopamine, and uric acid. <b>2015</b> , 140, 3183-92		80
1514	Multidimensional carbon allotropes as electrochemical detectors in capillary and microchip electrophoresis. <b>2015</b> , 36, 179-94		43
1513	The ecotoxicity of graphene family materials: current status, knowledge gaps and future needs. <b>2015</b> , 17, 1		45
1512	DNA polymorphism sensitive impedimetric detection on gold-nanoislands modified electrodes. <b>2015</b> , 136, 95-101		6
1511	Electrodeposition of platinum nanosheets on C60 decorated glassy carbon electrode as a stable electrochemical biosensor for simultaneous detection of ascorbic acid, dopamine and uric acid. <b>2015</b> , 177, 118-127		66
1510	A sandwich-type electrochemical immunosensor based on multiple signal amplification for Fetoprotein labeled by platinum hybrid multiwalled carbon nanotubes adhered copper oxide. <b>2015</b> , 160, 7-14		67
1509	Oxidative Tearing of Graphene Sheets: Insights into the Probable Situations by Computational and Experimental Studies. <b>2015</b> , 119, 951-959		1
1508	Raman characterization of defects and dopants in graphene. <b>2015</b> , 27, 083002		339
1507	Experimental design for optimizing the corrosion resistance of pulse reverse electrodeposited graphene oxide thin film. <b>2015</b> , 19, 1367-1380		27

1506	Nanomaterial-enabled stretchable conductors: strategies, materials and devices. <b>2015</b> , 27, 1480-511		510
1505	C?C Bonding of Graphene Oxide on 4-Aminophenyl Modified Gold Electrodes towards Simultaneous Detection of Heavy Metal Ions. <i>Electroanalysis</i> , <b>2015</b> , 27, 1110-1118	3	21
1504	Three-dimensional activated graphene network-sulfonate-terminated polymer nanocomposite as a new electrode material for the sensitive determination of dopamine and heavy metal ions. <b>2015</b> , 140, 1647-54		15
1503	Preparation of reduced graphene oxide/Cu nanoparticle composites through electrophoretic deposition: application for nonenzymatic glucose sensing. <b>2015</b> , 5, 15861-15869		89
1502	Targeted drug delivery potential of hydrogel biocomposites containing partially and thermally reduced graphene oxide and natural polymers prepared via green process. <b>2015</b> , 293, 409-420		11
1501	High-quality black phosphorus atomic layers by liquid-phase exfoliation. <b>2015</b> , 27, 1887-92		603
1500	Flexibility and electrical and humidity-sensing properties of diamine-functionalized graphene oxide films. <b>2015</b> , 211, 157-163		54
1499	Ferrocene-Functionalized Graphene Oxide Nanosheets: Efficient Electronic Communication between Ferrocene Centers across Graphene Nanosheets. <b>2015</b> , 156, 267-273		25
1498	Applications of Graphene and Its Derivative in Enzymatic Biofuel Cells. 2015, 371-378		1
1497	Nanomaterials-based electrochemical sensors for nitric oxide. <b>2015</b> , 182, 455-467		39
1496	Sensitive determination of chlorpyrifos using Ag/Cu alloy nanoparticles and graphene composite paste electrode. <b>2015</b> , 210, 475-482		39
1495	Applications of graphene and related nanomaterials in analytical chemistry. <b>2015</b> , 39, 2380-2395		59
1494	Nitrogen-doped graphene films from simple photochemical doping for n-type field-effect transistors. <b>2015</b> , 106, 013110		18
1493	Modification of electrode surface with covalently functionalized graphene oxide by l-tyrosine for determination of dopamine. <b>2015</b> , 738, 203-208		19
1492	Design of Experiments for Pulse Reverse Electrodeposition of Graphene Oxide toward Hydrogen Evolution Reaction. <b>2015</b> , 4, M7-M17		12
1491	Graphene-based DNA sensors. <b>2015</b> , 30, B163-B166		6
1490	An electrochemical sensor for selective determination of sulfamethoxazole in surface water using a molecularly imprinted polymer modified BDD electrode. <b>2015</b> , 7, 2693-2698		34
1489	A comparative study of different types of reduced graphene oxides as electrochemical sensing platforms for hydroquinone and catechol. <b>2015</b> , 19, 861-870		27

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1485	The effect of surface characteristics of reduced graphene oxide on the performance of a pseudocapacitor. <b>2015</b> , 2, 014007	16
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1483	A Novel Label-Free Immunosensor Based on Activated Graphene Oxide for Acetaminophen Detection. <i>Electroanalysis</i> , <b>2015</b> , 27, 638-647	24
1482	Design, synthesis, and characterization of graphene-nanoparticle hybrid materials for bioapplications. <b>2015</b> , 115, 2483-531	514
1481	Ultrasensitive label-free electrochemiluminescence immunosensor based on -(4-aminobutyl)ethylisoluminol-functionalized graphene composite. <b>2015</b> , 58, 425-432	12
1480	Interaction of graphene family materials with Listeria monocytogenes and Salmonella enterica. <b>2015</b> , 10, 23	56
1479	Controlled synthesis of graphene (Id(OH)3 nanocomposites and their application for detection of ascorbic acid. <b>2015</b> , 5, 21242-21248	8
1478	Sensitive detection of carcinoembryonic antigen in exhaled breath condensate using surface acoustic wave immunosensor. <b>2015</b> , 217, 100-106	34
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1476	Identifying chemical functionalization on individual carbon nanotubes and graphene by local vibrational fingerprinting. <b>2015</b> , 9, 3314-23	15
1475	Seed/catalyst-free growth of zinc oxide on graphene by thermal evaporation: effects of substrate inclination angles and graphene thicknesses. <b>2015</b> , 10, 10	12
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1473	Network nanostructured polypyrrole hydrogel/Au composites as enhanced electrochemical biosensing platform. <b>2015</b> , 5, 11440	81
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1470	Nonlocal Timoshenko beam model for considering shear effect of van der Waals interactions on free vibration of multilayer graphene nanoribbons. <b>2015</b> , 133, 522-528	23
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1466	Electrocatalytic determination of ⊉-adrenergic agonist tizanidine at graphenelilicon dioxide nanocomposite sensor. <b>2015</b> , 65, 307-314	10
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1460	Graphene-like two-dimensional layered nanomaterials: applications in biosensors and nanomedicine. <b>2015</b> , 7, 14217-31	180
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1457	Electrochemical sensors based on carbon nanomaterials for acetaminophen detection: A review. <b>2015</b> , 886, 16-28	101
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1444	Simple one-pot preparation of chitosan-reduced graphene oxide-Au nanoparticles hybrids for glucose sensing. <b>2015</b> , 221, 265-272	56
1443	Flexible humidity sensor based on Au nanoparticles/graphene oxide/thiolated silica solgel film. <b>2015</b> , 216, 467-475	44
1442	Chemically Modified Graphene and Sulfonic Acid-Doped Polyaniline Nanofiber Composites: Preparation Routes, Characterization, and Comparison of Direct DNA Detection. <b>2015</b> , 119, 9076-9084	13
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1438	Improved electrochemical performances of reduced graphene oxide based supercapacitor using redox additive electrolyte. <b>2015</b> , 90, 260-273	128
1437	Sensitive electrochemical immunosensor for #fetoprotein based on graphene/SnO2/Au nanocomposite. <b>2015</b> , 71, 82-87	72
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1432	Sulfur-doped graphene-supported Ag nanoparticles for nonenzymatic hydrogen peroxide detection. <b>2015</b> , 17, 1	16
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1408	Electrochemical characterization of electrochemically reduced graphene coatings on platinum. Electrochemical study of dye adsorption. <b>2015</b> , 166, 54-63	20
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1406	Amperometric sensing. A melting pot for material, electrochemical, and analytical sciences. <b>2015</b> , 179, 350-363	20
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1388	Cytotoxicity assessment of graphene-based nanomaterials on human dental follicle stem cells. <b>2015</b> , 136, 791-8	41
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1373	Electrochemical preparation, characterization and application of electrodes modified with nickelBobalt hexacyanoferrate/graphene oxideBarbon nanotubes. <b>2015</b> , 755, 197-202	31
1372	Electrodeposition of copper nanoparticles using pectin scaffold at graphene nanosheets for electrochemical sensing of glucose and hydrogen peroxide. <b>2015</b> , 176, 804-810	84
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