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Graphene/AuNPs/chitosan nanocomposites film for glucose biosensing

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#	Paper	IF	Citations
693	Platinum nanoparticle ensemble-on-graphene hybrid nanosheet: one-pot, rapid synthesis, and used as new electrode material for electrochemical sensing. <b>2010</b> , 4, 3959-68		660
692	Electrochemical behavior and voltammetric determination of 4-aminophenol based on graphene-chitosan composite film modified glassy carbon electrode. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 7102-7108	6.7	174
691	Direct electrochemistry of glucose oxidase assembled on graphene and application to glucose detection. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 8606-8614	6.7	210
690	One step gold (bio)functionalisation based on CS2-amine reaction. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 8686-8695	6.7	24
689	Direct Electrochemistry and Bioelectrocatalysis of Microperoxidase-11 Immobilized on Chitosan-Graphene Nanocomposite. <i>Electroanalysis</i> , <b>2010</b> , 22, 1323-1328	3	48
688	Nanogold-enwrapped graphene nanocomposites as trace labels for sensitivity enhancement of electrochemical immunosensors in clinical immunoassays: Carcinoembryonic antigen as a model. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 25, 2379-83	11.8	177
687	Chemical and biological sensing applications based on graphene field-effect transistors. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 26, 1727-30	11.8	107
686	Amperometric glucose biosensor based on a triangular silver nanoprisms/chitosan composite film as immobilization matrix. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 26, 1098-103	11.8	89
685	A BRIEF REVIEW ON GRAPHENE-NANOPARTICLE COMPOSITES. <b>2010</b> , 06, 159-166		19
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671	Facile Fabrication of Metal Nanoparticle/Graphene Oxide Hybrids: A New Strategy To Directly Illuminate Graphene for Optical Imaging. <b>2011</b> , 115, 12815-12821		63
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538	A cost-effective self-sensing biosensor for detection of biological species at ultralow concentrations. <b>2013</b> , 113, 224905		9
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535	Direct electrochemistry of glucose oxidase on sulfonated graphene/gold nanoparticle hybrid and its application to glucose biosensing. <b>2013</b> , 17, 2487-2494		16
534	Palladium nanoparticles on electrochemically reduced chemically modified graphene oxide for non-enzymatic bimolecular sensing. <b>2013</b> , 3, 16109		12
533	A novel mesoporous silica nanosphere matrix for the immobilization of proteins and their applications as electrochemical biosensor. <b>2013</b> , 104, 116-21		26

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531	Synthesis of graphene based noble metal composites for glucose biosensor. <b>2013</b> , 106, 277-280		22
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528	Fabrication of CuO nanosheets modified Cu electrode and its excellent electrocatalytic performance towards glucose. <b>2013</b> , 283, 947-953		53
527	A novel glucose biosensor platform based on Ag@AuNPs modified graphene oxide nanocomposite and SERS application. <b>2013</b> , 406, 231-7		106
526	A glucose biosensor based on cytochrome c and glucose oxidase co-entrapped in chitosan-gold nanoparticles modified electrode. <b>2013</b> , 5, 4165		21
525	Fabrication of streptavidin functionalized silver nanoparticle decorated graphene and its application in disposable electrochemical sensor for immunoglobulin E. <b>2013</b> , 31, 16-19		43
524	Layer-by-layer self-assembled hybrid multilayer films based on poly(sodium 4-styrenesulfonate) stabilized graphene with polyaniline and their electrochemical sensing properties. <b>2013</b> , 3, 17866		32
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522	A novel platform for enhanced biosensing based on the synergy effects of electrospun polymer nanofibers and graphene oxides. <i>Analyst, The</i> , <b>2013</b> , 138, 1459-66	5	48
521	Hairpin LNA biosensor with enzyme tagged AuNPs as tracer for amperometric detection of K-ras mutation gene. <i>Electrochimica Acta</i> , <b>2013</b> , 108, 808-813	6.7	11
520	Magnetic loading of graphene-nickel nanoparticle hybrid for electrochemical sensing of carbohydrates. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 42, 430-3	11.8	23
519	Fe <sub>3</sub> O <sub>4</sub> -functionalized graphene nanoribbons: Preparation, characterization, and improved electrochemical activity. <i>Journal of Electroanalytical Chemistry</i> , <b>2013</b> , 704, 86-89	4.1	16
518	Electrochemical co-reduction synthesis of graphene/nano-gold composites and its application to electrochemical glucose biosensor. <i>Electrochimica Acta</i> , <b>2013</b> , 112, 774-782	6.7	79
517	In situ deposition of gold nanostructures with well-defined shapes on unfunctionalized reduced graphene oxide through chemical reduction of a dry gold precursor with ethylene glycol vapor. <b>2013</b> , 3, 1201-1209		12
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515	Polyethyleneimine decorated graphene oxide-supported Ni <sub>1-x</sub> Fe <sub>x</sub> bimetallic nanoparticles as efficient and robust electrocatalysts for hydrazine fuel cells. <b>2013</b> , 3, 3155		45

514	Biosensor based on ultrasmall MoS <sub>2</sub> nanoparticles for electrochemical detection of H <sub>2</sub> O <sub>2</sub> released by cells at the nanomolar level. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 10289-95	7.8	361
513	A disposable screen printed graphene-carbon paste electrode and its application in electrochemical sensing. <b>2013</b> , 3, 25792		33
512	Green, low-cost synthesis of photoluminescent carbon dots by hydrothermal treatment of willow bark and their application as an effective photocatalyst for fabricating Au nanoparticles-reduced graphene oxide nanocomposites for glucose detection. <b>2013</b> , 3, 1027		150
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507	Impedimetric immunosensor based on gold nanoparticles modified graphene paper for label-free detection of Escherichia coli O157:H7. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 49, 492-8	11.8	152
506	Preparation of poly(diallyldimethylammonium chloride)-functionalized graphene and its applications for H <sub>2</sub> O <sub>2</sub> and glucose sensing. <i>Electrochimica Acta</i> , <b>2013</b> , 111, 411-418	6.7	28
505	Direct electron transfer of Cytochrome c at mono-dispersed and negatively charged perylene-graphene matrix. <b>2013</b> , 107, 195-202		22
504	Enzymes immobilized on amine-terminated ionic liquid-functionalized carbon nanotube for hydrogen peroxide determination. <b>2013</b> , 105, 63-8		24
503	Nano-graphene in biomedicine: theranostic applications. <b>2013</b> , 42, 530-47		1297
502	Graphene-based electrochemical sensors. <b>2013</b> , 9, 1160-72		434
501	A novel non-enzymatic glucose sensor based on NiO hollow spheres. <i>Electrochimica Acta</i> , <b>2013</b> , 102, 10461-7	10.7	118
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481	Amperometric immunobiosensor for F <sub>1</sub> etoprotein using Au nanoparticles/chitosan/TiO <sub>2</sub> -graphene composite based platform. <i>Bioelectrochemistry</i> , <b>2013</b> , 90, 18-23	5.6	71
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475	Synthesis of palladium/helical carbon nanofiber hybrid nanostructures and their application for hydrogen peroxide and glucose detection. <b>2013</b> , 5, 12017-22		78
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472	Charge injection through nanocomposite electrode in microfluidic channel for electrical lysis of biological cells. <b>2013</b> ,		
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447	Direct electrochemistry of horseradish peroxidase based on hierarchical porous calcium phosphate microspheres. <i>Mikrochimica Acta</i> , <b>2014</b> , 181, 511-518	5.8	2
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444	A review of organic and inorganic biomaterials for neural interfaces. <b>2014</b> , 26, 1846-85		370
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439	Direct electrochemistry of glucose oxidase and a biosensor for glucose based on a glass carbon electrode modified with MoS <sub>2</sub> nanosheets decorated with gold nanoparticles. <i>Mikrochimica Acta</i> , <b>2014</b> , 181, 1497-1503	5.8	134
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434	Graphenated polyaniline-doped tungsten oxide nanocomposite sensor for real time determination of phenanthrene. <i>Electrochimica Acta</i> , <b>2014</b> , 128, 138-148	6.7	32
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423	Size-dependent propagation of Au nanoclusters through few-layer graphene. <b>2014</b> , 6, 1258-63		27
422	Preparation of reduced graphene oxide/Ni(OH) <sub>2</sub> composites by electrophoretic deposition: application for non-enzymatic glucose sensing. <b>2014</b> , 2, 5525-5533		110
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419	Direct electrochemistry of GOD on nitrogen-doped porous carbon and its biosensing. <b>2014</b> , 16, 1		5
418	Three dimensional porous graphene/chitosan composites from ice-induced assembly for direct electron transfer and electrocatalysis of glucose oxidase. <b>2014</b> , 4, 38273		22
417	Fabrication of electrochemiluminescence aptasensor based on in situ growth of gold nanoparticles on layered molybdenum disulfide for sensitive detection of platelet-derived growth factor-BB. <b>2014</b> , 4, 22888		32
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414	Functionalization of monolithic and porous three-dimensional graphene by one-step chitosan electrodeposition for enzymatic biosensor. <b>2014</b> , 6, 19997-20002		80
413	Spin crossover-graphene nanocomposites: facile syntheses, characterization, and magnetic properties. <b>2014</b> , 4, 31323-31327		22
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406	A novel reduction approach to fabricate quantum-sized SnO <sub>2</sub> conjugated reduced graphene oxide nanocomposites as non-enzymatic glucose sensors. <b>2014</b> , 16, 8801-7		55
405	Achieving direct electrochemistry of glucose oxidase by one step electrochemical reduction of graphene oxide and its use in glucose sensing. <b>2014</b> , 45, 103-8		20
404	Electrochemical biosensor for simultaneous determination of guanine and adenine based on dopamine-melanin colloidal nanospheres/graphene composites. <b>2014</b> , 18, 2435-2442		39
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401	Electrochemical deposition of gold nanoparticles on graphite rod for glucose biosensing. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 203, 25-34	8.5	61
400	Synthesis and characterization of reduced graphene oxide supported gold nanoparticles-poly(pyrrole-co-pyrrolepropyic acid) nanocomposite-based electrochemical biosensor. <b>2014</b> , 174, 911-25		11
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