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Electrochemical sensing and biosensing platform based on chemically reduced graphene oxide

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1551	Selective Functionalization Blended with Scaffold Conductivity in Graphene Acid Promotes H ₂ O ₂ Electrochemical Sensing.		
1550	Foundations of Software Science and Computational Structures. 2007 ,		1
1549	Graphene modified basal and edge plane pyrolytic graphite electrodes for electrocatalytic oxidation of hydrogen peroxide and Ethicotinamide adenine dinucleotide. 2009 , 11, 2153-2156		140
1548	Graphite nanosheet-based composites for mediator-free H ₂ O ₂ biosensor. 2009 , 134, 2135-40		28
1547	Processing of graphene for electrochemical application: noncovalently functionalize graphene sheets with water-soluble electroactive methylene green. 2009 , 25, 12006-10		207
1546	Graphene-based materials in electrochemistry. 2010 , 39, 3157-80		1200
1545	Graphene-based nanomaterials and their electrochemistry. 2010 , 39, 4146-57		898
1544	Platinum nanoparticle ensemble-on-graphene hybrid nanosheet: one-pot, rapid synthesis, and used as new electrode material for electrochemical sensing. 2010 , 4, 3959-68		660
1543	Platelet graphite nanofibers for electrochemical sensing and biosensing: the influence of graphene sheet orientation. 2010 , 5, 266-71		112
1542	Nitrogen-doped graphene and its electrochemical applications. 2010 , 20, 7491		934
1541	Nitrogen-doped graphene and its application in electrochemical biosensing. 2010 , 4, 1790-8		1777
1540	Electrochemical behavior and voltammetric determination of 4-aminophenol based on graphene/chitosan composite film modified glassy carbon electrode. <i>Electrochimica Acta</i> , 2010 , 55, 7102-7108	6.7	174
1539	Direct electrochemistry of glucose oxidase assembled on graphene and application to glucose detection. <i>Electrochimica Acta</i> , 2010 , 55, 8606-8614	6.7	210
1538	Electrochemical detection of dopamine in the presence of ascorbic acid using graphene modified electrodes. 2010 , 25, 2366-9		583
1537	Dumbbell-like Au-Fe ₃ O ₄ nanoparticles as label for the preparation of electrochemical immunosensors. 2010 , 26, 627-31		83
1536	Highly sensitive electrocatalytic biosensing of hypoxanthine based on functionalization of graphene sheets with water-soluble conducting graft copolymer. 2010 , 26, 371-6		96

1535	Voltammetric selectivity conferred by the modification of electrodes using conductive porous layers or films: The oxidation of dopamine on glassy carbon electrodes modified with multiwalled carbon nanotubes. 2010 , 145, 417-427		200
1534	Monodispersed Au nanoparticles decorated graphene as an enhanced sensing platform for ultrasensitive stripping voltammetric detection of mercury(II). 2010 , 150, 491-497		198
1533	One-step, solvothermal synthesis of graphene-CdS and graphene-ZnS quantum dot nanocomposites and their interesting photovoltaic properties. 2010 , 3, 794-799		166
1532	A Hydrogen Peroxide Biosensor Based on Room Temperature Ionic Liquid Functionalized Graphene Modified Carbon Ceramic Electrode. 2010 , 28, 2507-2512		12
1531	Graphene on Au(111): a highly conductive material with excellent adsorption properties for high-resolution bio/nanodetection and identification. 2010 , 11, 585-9		180
1530	Graphene Based Electrochemical Sensors and Biosensors: A Review. <i>Electroanalysis</i> , 2010 , 22, 1027-1036;		2430
1529	Electrochemiluminescence Biosensor for Glucose Based on Graphene/Nafion/GOD Film Modified Glassy Carbon Electrode. <i>Electroanalysis</i> , 2010 , 22, 2347-2352	3	50
1528	Graphene Nanosheets Modified Glassy Carbon Electrode as a Highly Sensitive and Selective Voltammetric Sensor for Rutin. <i>Electroanalysis</i> , 2010 , 22, 2399-2406	3	40
1527	Comparative Studies on Electrocatalytic Activities of Chemically Reduced Graphene Oxide and Electrochemically Reduced Graphene Oxide Noncovalently Functionalized with Poly(methylene blue). <i>Electroanalysis</i> , 2010 , 22, 2862-2870	3	17
1526	Electrochemical Performance of Graphene as Effected by Electrode Porosity and Graphene Functionalization. <i>Electroanalysis</i> , 2010 , 22, 2834-2841	3	87
1525	Chemically derived graphene oxide: towards large-area thin-film electronics and optoelectronics. 2010 , 22, 2392-415		1818
1524	Specific protein detection using thermally reduced graphene oxide sheet decorated with gold nanoparticle-antibody conjugates. 2010 , 22, 3521-6		411
1523	Real-time DNA detection using reduced graphene oxide field effect transistors. 2010 , 22, 5297-300		135
1522	Enzyme Immobilization on Layered and Nanostructured Materials. 2010 , 35-63		5
1521	Characterization, direct electrochemistry, and amperometric biosensing of graphene by noncovalent functionalization with picket-fence porphyrin. 2010 , 16, 10771-7		101
1520	Fabrication of a biocompatible and conductive platform based on a single-stranded DNA/graphene nanocomposite for direct electrochemistry and electrocatalysis. 2010 , 16, 8133-9		133
1519	A Graphene Oxide Based Immuno-biosensor for Pathogen Detection. 2010 , 122, 5844-5847		49
1518	A graphene oxide based immuno-biosensor for pathogen detection. 2010 , 49, 5708-11		469

1517	Graphene-based modified electrode for the direct electron transfer of Cytochrome c and biosensing. 2010 , 12, 175-177		228
1516	Electrochemical behavior of β -agonists at graphite nanosheet modified electrodes. 2010 , 12, 876-881		33
1515	Thin film pyrolytic carbon electrodes: A new class of carbon electrode for electroanalytical sensing applications. 2010 , 12, 1034-1036		22
1514	Electrochemical property and electroanalytical application of large mesoporous carbons. 2010 , 12, 1563-1567		23
1513	Electrochemical behavior and application of Prussian blue nanoparticle modified graphite electrode. 2010 , 147, 270-276		89
1512	A high performance electrochemical sensor for NADH based on graphite nanosheet modified electrode. 2010 , 150, 564-568		40
1511	Direct electrochemical detection of DNA methylation for retinoblastoma and CpG fragments using a nanocarbon film. 2010 , 405, 59-66		47
1510	Graphene oxide sheet-prussian blue nanocomposites: green synthesis and their extraordinary electrochemical properties. 2010 , 81, 508-12		60
1509	Improved voltammetric peak separation and sensitivity of uric acid and ascorbic acid at nanoplatelets of graphitic oxide. 2010 , 12, 596-599		58
1508	Comparative study of different types of graphenes as electrocatalysts for ascorbic acid. 2010 , 12, 1307-1309		82
1507	Intracellular imaging with a graphene-based fluorescent probe. 2010 , 6, 1686-92		243
1506	Electron transfer mechanism of cytochrome c at graphene electrode. 2010 , 96, 263702		57
1505	Reducing sugar: new functional molecules for the green synthesis of graphene nanosheets. 2010 , 4, 2429-37		1145
1504	Electrochemical ascorbic acid sensor based on DMF-exfoliated graphene. 2010 , 20, 7864		202
1503	Electrochemical approach for detection of extracellular oxygen released from erythrocytes based on graphene film integrated with laccase and 2,2-azino-bis(3-ethylbenzothiazoline-6-sulfonic acid). <i>Analytical Chemistry</i> , 2010 , 82, 3588-96	7.8	103
1502	Immobilization-free direct electrochemical detection for DNA specific sequences based on electrochemically converted gold nanoparticles/graphene composite film. 2010 , 20, 9253		115
1501	Sensitive immunosensor for cancer biomarker based on dual signal amplification strategy of graphene sheets and multienzyme functionalized carbon nanospheres. <i>Analytical Chemistry</i> , 2010 , 82, 2989-95	7.8	404
1500	Highly Sensitive and Selective Dopamine Biosensor Fabricated with Silanized Graphene. 2010 , 114, 14915-14921		100

1499	Cyclodextrin functionalized graphene nanosheets with high supramolecular recognition capability: synthesis and host-guest inclusion for enhanced electrochemical performance. 2010 , 4, 4001-10		543
1498	Study of Heterogeneous Electron Transfer on the Graphene/Self-Assembled Monolayer Modified Gold Electrode by Electrochemical Approaches. 2010 , 114, 14243-14250		66
1497	Direct voltammetric detection of DNA and pH sensing on epitaxial graphene: an insight into the role of oxygenated defects. <i>Analytical Chemistry</i> , 2010 , 82, 7387-93	7.8	217
1496	In situ controllable growth of Prussian blue nanocubes on reduced graphene oxide: facile synthesis and their application as enhanced nanoelectrocatalyst for H ₂ O ₂ reduction. 2010 , 2, 2339-46		207
1495	A graphene-based fluorescent nanoprobe for silver(I) ions detection by using graphene oxide and a silver-specific oligonucleotide. <i>Chemical Communications</i> , 2010 , 46, 2596-8	5.8	432
1494	Facile and controllable electrochemical reduction of graphene oxide and its applications. 2010 , 20, 743-748		702
1493	Enzyme-Doped Graphene Nanosheets for Enhanced Glucose Biosensing. 2010 , 114, 12920-12924		246
1492	Unconventional layer-by-layer assembly of graphene multilayer films for enzyme-based glucose and maltose biosensing. 2010 , 26, 15022-6		164
1491	Biocompatible graphene oxide-based glucose biosensors. 2010 , 26, 6158-60		592
1490	One-pot, water-phase approach to high-quality graphene/TiO ₂ composite nanosheets. <i>Chemical Communications</i> , 2010 , 46, 7148-50	5.8	175
1489	Graphene oxide-based immunobiosensor for ultrasensitive pathogen detection. 2010 ,		
1488	Development of an Amperometric Cholesterol Biosensor Based on Graphene/Bt Nanoparticle Hybrid Material. 2010 , 114, 21427-21433		248
1487	Microwave-assisted synthesis of highly water-soluble graphene towards electrical DNA sensor. 2010 , 2, 2692-7		53
1486	One-pot synthesis of functional two-dimensional graphene/SnO ₂ composite nanosheets as a building block for self-assembly and an enhancing nanomaterial for biosensing. 2011 , 21, 16911		57
1485	A novel fluorescent biosensor for sequence-specific recognition of double-stranded DNA with the platform of graphene oxide. 2011 , 136, 2106-10		68
1484	Salt-controlled assembly of stacked-graphene for capturing fluorescence and its application in chemical genotoxicity screening. 2011 , 21, 15266		5
1483	Titanium silicalite-1 zeolite microparticles for enzymeless H ₂ O ₂ detection. 2011 , 136, 2037-9		20
1482	Schottky diode via dielectrophoretic assembly of reduced graphene oxide sheets between dissimilar metal contacts. 2011 , 13, 035021		32

1481	Facile patterning of reduced graphene oxide film into microelectrode array for highly sensitive sensing. <i>Analytical Chemistry</i> , 2011 , 83, 6426-30	7.8	60
1480	Graphene as cellular interface: electromechanical coupling with cells. 2011 , 5, 6025-31		85
1479	Preparation of Novel Carbon-based Nanomaterial of Graphene and Its Applications Electrochemistry. 2011 , 39, 963-971		18
1478	Graphene oxide sheet-mediated silver enhancement for application to electrochemical biosensors. <i>Analytical Chemistry</i> , 2011 , 83, 648-53	7.8	155
1477	Facile synthesis of graphene nanosheets via Fe reduction of exfoliated graphite oxide. 2011 , 5, 191-8		742
1476	Solid-state label-free integrated aptasensor based on graphene-mesoporous silica-gold nanoparticle hybrids and silver microspheres. <i>Analytical Chemistry</i> , 2011 , 83, 8035-40	7.8	86
1475	DMF-exfoliated graphene for electrochemical NADH detection. 2011 , 13, 7747-50		74
1474	One-step electrochemical deposition of a graphene-ZrO ₂ nanocomposite: Preparation, characterization and application for detection of organophosphorus agents. 2011 , 21, 8032		150
1473	Electrochemistry of individual monolayer graphene sheets. 2011 , 5, 2264-70		208
1472	Graphene and its derivative-based sensing materials for analytical devices. 2011 , 21, 18503		104
1471	Fabrication of free-standing graphene/polyaniline nanofibers composite paper via electrostatic adsorption for electrochemical supercapacitors. 2011 , 35, 369-374		123
1470	Gram-scale synthesis of nanomesh graphene with high surface area and its application in supercapacitor electrodes. <i>Chemical Communications</i> , 2011 , 47, 5976-8	5.8	308
1469	Chemical amination of graphene oxides and their extraordinary properties in the detection of lead ions. 2011 , 3, 5059-66		97
1468	Chemically-modified graphenes for oxidation of DNA bases: analytical parameters. 2011 , 136, 4738-44		38
1467	Label-free fluorescent detection of Cu(II) ions based on DNA cleavage-dependent graphene-quenched DNAzymes. <i>Chemical Communications</i> , 2011 , 47, 7749-51	5.8	77
1466	Positive potential operation of a cathodic electrogenerated chemiluminescence immunosensor based on luminol and graphene for cancer biomarker detection. <i>Analytical Chemistry</i> , 2011 , 83, 3817-23	7.8	318
1465	Graphene oxide based photoinduced charge transfer label-free near-infrared fluorescent biosensor for dopamine. <i>Analytical Chemistry</i> , 2011 , 83, 8787-93	7.8	240
1464	Nucleation Mechanism of Electrochemical Deposition of Cu on Reduced Graphene Oxide Electrodes. 2011 , 115, 15973-15979		40

1463	Microwave-assisted synthesis of a core-shell MWCNT/GONR heterostructure for the electrochemical detection of ascorbic acid, dopamine, and uric acid. 2011 , 5, 7788-95		267
1462	Synthesis of reduced graphene oxide-anatase TiO ₂ nanocomposite and its improved photo-induced charge transfer properties. 2011 , 3, 1640-5		154
1461	Wrapping bacteria by graphene nanosheets for isolation from environment, reactivation by sonication, and inactivation by near-infrared irradiation. 2011 , 115, 6279-88		454
1460	Protein-directed reduction of graphene oxide and intracellular imaging. <i>Chemical Communications</i> , 2011 , 47, 12658-60	5.8	54
1459	Nonvolatile memory device using gold nanoparticles covalently bound to reduced graphene oxide. 2011 , 5, 6826-33		129
1458	Label-free, regenerative and sensitive surface plasmon resonance and electrochemical aptasensors based on graphene. <i>Chemical Communications</i> , 2011 , 47, 7794-6	5.8	107
1457	Bioelectrochemical interface engineering: toward the fabrication of electrochemical biosensors, biofuel cells, and self-powered logic biosensors. 2011 , 44, 1232-43		253
1456	Graphene and graphene-based nanomaterials: the promising materials for bright future of electroanalytical chemistry. 2011 , 136, 4631-40		121
1455	Graphene-based electrochemical energy conversion and storage: fuel cells, supercapacitors and lithium ion batteries. 2011 , 13, 15384-402		432
1454	Target recycling amplification for sensitive and label-free impedimetric genosensing based on hairpin DNA and graphene/Au nanocomposites. <i>Chemical Communications</i> , 2011 , 47, 12798-800	5.8	71
1453	Cyclodextrin-graphene hybrid nanosheets as enhanced sensing platform for ultrasensitive determination of carbendazim. 2011 , 84, 60-4		127
1452	Bio-electrocatalysis of NADH and ethanol based on graphene sheets modified electrodes. 2011 , 85, 1174-9		75
1451	High-resolution separation of graphene oxide by capillary electrophoresis. <i>Analytical Chemistry</i> , 2011 , 83, 9100-6	7.8	38
1450	Graphene based RF/microwave impedance sensing of DNA. 2011 ,		3
1449	Graphene as a spacer to layer-by-layer assemble electrochemically functionalized nanostructures for molecular bioelectronic devices. 2011 , 27, 11180-6		60
1448	Self assembly of acetylcholinesterase on a gold nanoparticles-graphene nanosheet hybrid for organophosphate pesticide detection using polyelectrolyte as a linker. 2011 , 21, 5319		196
1447	The enzymatic oxidation of graphene oxide. 2011 , 5, 2098-108		313
1446	. 2011 ,		14

1445	Electrochemical Sensing of Nitric Oxide on Electrochemically Reduced Graphene-Modified Electrode. 2011 , 2011, 1-6		5
1444	Electrochemical DNA Sensors: From Nanoconstruction to Biosensing. 2011 , 15, 506-517		13
1443	Acetylcholinesterase biosensor based on 3-carboxyphenylboronic acid/reduced graphene oxide/gold nanocomposites modified electrode for amperometric detection of organophosphorus and carbamate pesticides. 2011 , 160, 1255-1261		149
1442	Development of an all-solid-state potassium ion-selective electrode using graphene as the solid-contact transducer. 2011 , 13, 1529-1532		116
1441	Flow-injection amperometric glucose biosensors based on graphene/Nafion hybrid electrodes. <i>Electrochimica Acta</i> , 2011 , 56, 9721-9726	6.7	53
1440	Direct electrochemistry and electrocatalysis of hemoglobin on chitosan-room temperature ionic liquid-TiO ₂ -graphene nanocomposite film modified electrode. 2011 , 82, 125-30		82
1439	An integrated sensing system for detection of DNA using new parallel-motif DNA triplex system and graphene--mesoporous silica--gold nanoparticle hybrids. <i>Biomaterials</i> , 2011 , 32, 8584-92	15.6	108
1438	Recent advances in graphene-based biosensors. 2011 , 26, 4637-48		1025
1437	Electrochemical immunosensor based on electron transfer mediated by graphene oxide initiated silver enhancement. 2011 , 26, 4810-4		70
1436	Nanoporous PtAg and PtCu alloys with hollow ligaments for enhanced electrocatalysis and glucose biosensing. 2011 , 27, 160-6		117
1435	Direct electrochemical reduction of graphene oxide on ionic liquid doped screen-printed electrode and its electrochemical biosensing application. 2011 , 28, 204-9		196
1434	Fabrication of graphene films on TiO ₂ nanotube arrays for photocatalytic application. 2011 , 49, 5312-5320		116
1433	Electrochemical behavior of monolayer and bilayer graphene. 2011 , 5, 8809-15		131
1432	Photothermally enhanced photodynamic therapy delivered by nano-graphene oxide. 2011 , 5, 7000-9		874
1431	Graphene nanosheet: synthesis, molecular engineering, thin film, hybrids, and energy and analytical applications. 2011 , 40, 2644-72		1085
1430	A new photoelectrochemical aptasensor for the detection of thrombin based on functionalized graphene and CdSe nanoparticles multilayers. <i>Chemical Communications</i> , 2011 , 47, 4929-31	5.8	162
1429	Graphene in biomedicine: opportunities and challenges. 2011 , 6, 317-24		572
1428	Graphene-based hybrid materials and devices for biosensing. 2011 , 63, 1352-60		230

1427	One-pot solvothermal synthesis of a Cu ₂ O/Graphene nanocomposite and its application in an electrochemical sensor for dopamine. 2011 , 173, 103-109		149
1426	Enhanced conductivity of a glassy carbon electrode modified with a graphene-doped film of layered double hydroxides for selectively sensing of dopamine. 2011 , 174, 41-46		35
1425	Electrochemical sensors based on graphene materials. 2011 , 175, 1-19		259
1424	Electrochemical detection of DNA damage induced by acrylamide and its metabolite at the graphene-ionic liquid-Nafion modified pyrolytic graphite electrode. 2011 , 190, 480-5		43
1423	Functionalized-graphene modified graphite electrode for the selective determination of dopamine in presence of uric acid and ascorbic acid. 2011 , 81, 104-8		111
1422	Impedimetric immunosensor doped with reduced graphene sheets fabricated by controllable electrodeposition for the non-labelled detection of bacteria. 2011 , 26, 1959-64		125
1421	Simultaneous detection of guanine, adenine, thymine and cytosine at choline monolayer supported multiwalled carbon nanotubes film. 2011 , 26, 3339-45		78
1420	Colorimetric platform for visual detection of cancer biomarker based on intrinsic peroxidase activity of graphene oxide. 2011 , 26, 3927-31		136
1419	A graphene-based platform for single nucleotide polymorphism (SNP) genotyping. 2011 , 26, 4213-6		22
1418	Preparation, characterization, and electrocatalytic performance of graphene-methylene blue thin films. 2011 , 4, 124-130		34
1417	Highly sensitive protein sensor based on thermally-reduced graphene oxide field-effect transistor. 2011 , 4, 921-930		76
1416	Graphene in biosensing. 2011 , 14, 308-315		621
1415	Triangular Graphene Grain Growth on Cube-Textured Cu Substrates. 2011 , 21, 3868-3874		27
1414	Functionalized Graphene for Biosensing Applications. 2011 , 221-235		
1413	Highly Sensitive Nitric Oxide Sensing Using Three-Dimensional Graphene/Ionic Liquid Nanocomposite. <i>Electroanalysis</i> , 2011 , 23, 442-448	3	72
1412	Graphene and Related Materials in Electrochemical Sensing. <i>Electroanalysis</i> , 2011 , 23, 803-826	3	225
1411	Graphene-Modified Carbon Fiber Microelectrode for the Detection of Dopamine in Mice Hippocampus Tissue. <i>Electroanalysis</i> , 2011 , 23, 907-914	3	40
1410	Electrochemical Oxidation of Native Double-Stranded DNA on a Graphene-Modified Glassy Carbon Electrode. <i>Electroanalysis</i> , 2011 , 23, 915-920	3	12

1409	Electrochemical Sensor Based on Oxidation of 2,8-Dihydroxyadenine to Monitor DNA Damage in Calf Thymus DNA. <i>Electroanalysis</i> , 2011 , 23, 1383-1390	3	3
1408	Square Wave Stripping Voltammetry of Unlabeled Single- and Double-Stranded DNAs. <i>Electroanalysis</i> , 2011 , 23, 1311-1319	3	13
1407	Nanobioelectroanalysis Based on Carbon/Inorganic Hybrid Nanoarchitectures. <i>Electroanalysis</i> , 2011 , 23, 1289-1300	3	57
1406	Electrochemical Sensor for Ultrasensitive Determination of Doxorubicin and Methotrexate Based on Cyclodextrin-Graphene Hybrid Nanosheets. <i>Electroanalysis</i> , 2011 , 23, 2400-2407	3	93
1405	Determination of salidroside and tyrosol in Rhodiola by capillary electrophoresis with graphene/poly(urea-formaldehyde) composite modified electrode. 2011 , 32, 870-6		30
1404	Controllable growth of conical and cylindrical TiO ₂ -carbon core-shell nanofiber arrays and morphologically dependent electrochemical properties. 2011 , 17, 14552-8		15
1403	Electrochemical preparation of free-standing few-layer graphene through oxidation/reduction cycling. 2011 , 171, 340-344		38
1402	Evaluation of graphene as an advantageous adsorbent for solid-phase extraction with chlorophenols as model analytes. 2011 , 1218, 197-204		278
1401	Fabrication of graphene/poly(methyl methacrylate) composite electrode for capillary electrophoretic determination of bioactive constituents in Herba Geranii. 2011 , 1218, 5542-8		27
1400	Preparation of sulfonic-functionalized graphene oxide as ion-exchange material and its application into electrochemiluminescence analysis. 2011 , 26, 3136-41		45
1399	The simultaneous electrochemical detection of ascorbic acid, dopamine, and uric acid using graphene/size-selected Pt nanocomposites. 2011 , 26, 3450-5		431
1398	Ionic liquid-graphene hybrid nanosheets as an enhanced material for electrochemical determination of trinitrotoluene. 2011 , 26, 3475-81		116
1397	A biocompatible titanium nitride nanorods derived nanostructured electrode for biosensing and bioelectrochemical energy conversion. 2011 , 26, 4088-94		29
1396	Label-free optical detection of single-base mismatches by the combination of nuclease and gold nanoparticles. 2011 , 26, 4294-300		41
1395	Self-assembled graphene platelet-glucose oxidase nanostructures for glucose biosensing. 2011 , 26, 4491-6		158
1394	Quencher-free molecular beacon: Enhancement of the signal-to-background ratio with graphene oxide. 2011 , 21, 704-6		32
1393	Efficient synthesis of graphene sheets using pyrrole as a reducing agent. 2011 , 49, 3497-3502		175
1392	Ionic liquid-functionalized graphene as modifier for electrochemical and electrocatalytic improvement: comparison of different carbon electrodes. 2011 , 690, 169-74		43

1391	The role of oxygen functionalities at carbon electrode to the electrogenerated chemiluminescence of Ru(bpy) ₃ ²⁺ . 2011 , 13, 605-607		10
1390	Magnetite-graphene for the direct electrochemistry of hemoglobin and its biosensing application. <i>Electrochimica Acta</i> , 2011 , 56, 2471-2476	6.7	77
1389	Direct electrochemistry of catalase at amine-functionalized graphene/gold nanoparticles composite film for hydrogen peroxide sensor. <i>Electrochimica Acta</i> , 2011 , 56, 2947-2953	6.7	158
1388	Comparative study on the electrocatalytic activities of ordered mesoporous carbons and graphene. <i>Electrochimica Acta</i> , 2011 , 56, 3042-3048	6.7	28
1387	A method for the production of reduced graphene oxide using benzylamine as a reducing and stabilizing agent and its subsequent decoration with Ag nanoparticles for enzymeless hydrogen peroxide detection. 2011 , 49, 3158-3164		279
1386	Direct electrodeposition of reduced graphene oxide on glassy carbon electrode and its electrochemical application. 2011 , 13, 133-137		605
1385	Graphene based nanomaterials as electrochemical detectors in Lab-on-a-chip devices. 2011 , 13, 517-519		44
1384	Direct electrochemistry of horseradish peroxidase on graphene-modified electrode for electrocatalytic reduction towards H ₂ O ₂ . <i>Electrochimica Acta</i> , 2011 , 56, 1144-1149	6.7	88
1383	The electrocatalytic oxidative polymerizations of aniline and aniline derivatives by graphene. <i>Electrochimica Acta</i> , 2011 , 56, 2284-2289	6.7	31
1382	A novel electrochemical DNA biosensor based on graphene and polyaniline nanowires. <i>Electrochimica Acta</i> , 2011 , 56, 2676-2681	6.7	214
1381	A study of the electrochemical behavior of hematoxylin as an important bioactive flavonoid. <i>Electrochimica Acta</i> , 2011 , 56, 3920-3925	6.7	17
1380	The electrocatalytic oxidative polymerization of o-phenylenediamine by reduced graphene oxide and properties of poly(o-phenylenediamine). <i>Electrochimica Acta</i> , 2011 , 56, 3764-3772	6.7	45
1379	A voltammetric sensor based on graphene-modified electrode for simultaneous determination of catechol and hydroquinone. <i>Journal of Electroanalytical Chemistry</i> , 2011 , 650, 209-213	4.1	192
1378	Iron-tetrasulfophthalocyanine functionalized graphene nanosheets: Attractive hybrid nanomaterials for electrocatalysis and electroanalysis. <i>Journal of Electroanalytical Chemistry</i> , 2011 , 651, 12-18	4.1	24
1377	Au nanocages for highly sensitive and selective detection of H ₂ O ₂ . <i>Journal of Electroanalytical Chemistry</i> , 2011 , 656, 23-28	4.1	52
1376	Electrodeposition-based controllable construction of film of nano-roughened, hierarchical Au microstructures on indium tin oxide (ITO) surface and its application towards the catalytic oxidation of H ₂ O ₂ . <i>Journal of Electroanalytical Chemistry</i> , 2011 , 656, 17-22	4.1	4
1375	Graphene based materials: Past, present and future. 2011 , 56, 1178-1271		2607
1374	Label-free electrochemical immunosensor for sensitive detection of kanamycin. 2011 , 155, 618-625		78

1373	Electrochemical behavior of graphene doped carbon paste electrode and its application for sensitive determination of ascorbic acid. 2011 , 157, 110-114	109
1372	Graphene/polyaniline composite film modified electrode for voltammetric determination of 4-aminophenol. 2011 , 157, 669-674	194
1371	Surface-adsorption-induced bending behaviors of graphene nanoribbons. 2011 , 98, 121909	35
1370	Prospects of Nanobiomaterials for Biosensing. 2011 , 2011, 1-30	40
1369	Techniques related to graphene biosensors and their potential combination with optical fibres. 2011 , 26, 173-183	8
1368	Evaluation of Graphene and Graphene Derivatives for RF-Impedance Based Sensing. 2011 , 1303, 117	1
1367	Versatile Graphene-Based Nano-Bio Probe Design and Its Application. 2012 , 27-38	
1366	Nano-Bio Probe Design and Its Application for Biochemical Analysis. 2012 ,	1
1365	Electrochemical Behavior of Hydrogen Peroxide at Nanocomposite of Prussian Blue with Palladium of Variable Nanogeometry Modified Electrode. <i>Journal of the Electrochemical Society</i> , 2012 , 159, G128-G136	8
1364	Electrochemical Analysis and Applications of New Carbon Materials with Properties of Composite Materials. 2012 , 583, 75-81	
1363	Experimental Review of Graphene. 2012 , 2012, 1-56	303
1362	Preparation of Platinum Nanoparticles-Graphene Modified Electrode and Selective Determination of Rutin. 2012 , 2012, 1-6	7
1361	Fabrication of bienzymatic cholesterol biosensor based on gold nanoparticles decorated graphene-nanostructured polyaniline nanocomposite. 2012 , 2, 251	2
1360	Characteristic investigation of a static micro polymerase chain reaction chip based on in situ electrochemical detection. 2012 , 7, 1226-1229	
1359	Graphene-based materials for biosensing and bioimaging. 2012 , 37, 1290-1296	43
1358	An approach for synthesizing graphene with calcium carbonate and magnesium. 2012 , 50, 4939-4944	32
1357	Semiquantification of ATP in live cells using nonspecific desorption of DNA from graphene oxide as the internal reference. <i>Analytical Chemistry</i> , 2012 , 84, 8622-7	7.8 98
1356	3D graphene foam as a monolithic and macroporous carbon electrode for electrochemical sensing. 2012 , 4, 3129-33	264

1355	Vertical graphene nanoflakes for the immobilization, electrocatalytic oxidation and quantitative detection of DNA. 2012 , 25, 140-143	6
1354	Nanoscale electrochemical patterning reveals the active sites for catechol oxidation at graphite surfaces. 2012 , 134, 20246-9	46
1353	Preparation, characterization, and application of electrochemically functional graphene nanocomposites by one-step liquid-phase exfoliation of natural flake graphite with methylene blue. 2012 , 5, 875-887	30
1352	Graphenes in chemical sensors and biosensors. 2012 , 39, 87-113	170
1351	Simplifying the evaluation of graphene modified electrode performance using rotating disk electrode voltammetry. 2012 , 28, 5275-85	48
1350	The electrochemical performance of graphene modified electrodes: an analytical perspective. 2012 , 137, 1815-23	73
1349	Graphene/Au nanoparticles nanocomposite film for selective electrochemical determination of dopamine. 2012 , 4, 1725	119
1348	Graphene and Its Derivative-based Biosensing Systems. 2012 , 40, 1772-1779	11
1347	Recent advances in electrochemical sensing for hydrogen peroxide: a review. 2012 , 137, 49-58	720
1346	A new view of electrochemistry at highly oriented pyrolytic graphite. 2012 , 134, 20117-30	202
1345	Tunable catalytic performance and selectivity of a nanoparticle-graphene composite through finely controlled nanoparticle loading. 2012 , 7, 2931-6	14
1344	Enhanced Electrocatalytic Reduction of Oxadiazyl and Its Determination on 2-(4-((4-Acetylphenyl)diazenyl)phenylamino)-ethanol Modified Graphene-Paste Electrode. <i>Electroanalysis</i> , 2012 , 24, 2395-2404	3 7
1343	Determination of chloramphenicol in aquatic products by graphene-based SPE coupled with HPLC-MS/MS. 2012 , 35, 3586-92	39
1342	Preparation of electrochemically reduced graphene oxide-modified electrode and its application for determination of p-aminophenol. 2012 , 16, 2883-2889	29
1341	Electrochemical determination of isoprenaline using a graphene-modified glassy carbon electrode. 2012 , 16, 3261-3266	17
1340	Direct electrochemistry of glucose oxidase immobilized on TiO ₂ /graphene/nickel oxide nanocomposite film and its application. 2012 , 16, 3747-3752	21
1339	Surface Modification Using Prussian Blue/Gold (I) Palladium Nanocomposite: Towards Bioelectrocatalytic Probing of Hydrogen Peroxide. 2012 , 2, 127-134	4
1338	Poly(alizarin red)/graphene modified glassy carbon electrode for simultaneous determination of purine and pyrimidine. 2012 , 752, 94-100	38

1337	Electrochemical deoxyribonucleic acid biosensor based on carboxyl functionalized graphene oxide and poly-L-lysine modified electrode for the detection of tlh gene sequence related to vibrio parahaemolyticus. 2012 , 752, 39-44		56
1336	Immobilization-free screening of aptamers assisted by graphene oxide. <i>Chemical Communications</i> , 2012 , 48, 2071-3	5.8	126
1335	Hyper-branched sensing polymer directly constructed on a resonant micro-cantilever for the detection of trace chemical vapor. 2012 , 22, 18004		26
1334	Retracted article: Aligned nanoporous PtNi nanorod-like structures for electrocatalysis and biosensing. 2012 , 2, 3548		16
1333	A graphene-based composite material noncovalently functionalized with a chemiluminescence reagent: synthesis and intrinsic chemiluminescence activity. <i>Chemical Communications</i> , 2012 , 48, 2894-6	5.8	45
1332	Electroanalytical properties of screen printed shallow recessed electrodes. 2012 , 4, 3140		15
1331	Design of nanoporous metals with bimodal pore size distributions for enhanced biosensing. 2012 , 4, 4492-7		8
1330	Evaluation of electrokinetic parameters for all DNA bases with sputter deposited nanocarbon film electrode. <i>Analytical Chemistry</i> , 2012 , 84, 10607-13	7.8	17
1329	In situ loading of well-dispersed gold nanoparticles on two-dimensional graphene oxide/SiO ₂ composite nanosheets and their catalytic properties. 2012 , 4, 1641-6		110
1328	Fabrication of graphene oxide nanosheets incorporated monolithic column via one-step room temperature polymerization for capillary electrochromatography. <i>Analytical Chemistry</i> , 2012 , 84, 39-44	7.8	116
1327	Electroanalytical properties of screen printed graphite microband electrodes. 2012 , 169, 136-143		41
1326	Carbon nanotubes-ionic liquid nanocomposites sensing platform for NADH oxidation and oxygen, glucose detection in blood. 2012 , 91, 110-5		46
1325	Mediatorless amperometric glucose biosensing using 3-aminopropyltriethoxysilane-functionalized graphene. 2012 , 99, 22-8		39
1324	Electrochemical determination of NADH based on MPECVD carbon nanosheets. 2012 , 99, 487-91		16
1323	Graphene oxide: preparation, functionalization, and electrochemical applications. 2012 , 112, 6027-53		2515
1322	Adsorption of DNA onto gold nanoparticles and graphene oxide: surface science and applications. 2012 , 14, 10485-96		286
1321	A critical review of glucose biosensors based on carbon nanomaterials: carbon nanotubes and graphene. 2012 , 12, 5996-6022		368
1320	Electrochemistry of nucleic acids. 2012 , 112, 3427-81		521

1319	Electrochemistry of Q-graphene. 2012 , 4, 6470-80		38
1318	A novel non-enzymatic glucose sensor based on Cu nanoparticle modified graphene sheets electrode. 2012 , 709, 47-53		436
1317	Number of graphene layers exhibiting an influence on oxidation of DNA bases: analytical parameters. 2012 , 711, 29-31		19
1316	Glass carbon electrode modified with horseradish peroxidase immobilized on partially reduced graphene oxide for detecting phenolic compounds. <i>Journal of Electroanalytical Chemistry</i> , 2012 , 681, 49-55	4.1	55
1315	Electrochemical oxidation of adenosine-5'-triphosphate on a chitosan-graphene composite modified carbon ionic liquid electrode and its determination. 2012 , 32, 2129-2134		9
1314	Preparation of thiolated polymeric nanocomposite for sensitive electroanalysis of dopamine. 2012 , 36, 154-60		22
1313	Application of metalloporphyrin grafted-graphene oxide for the construction of a novel salicylate-selective electrode. 2012 , 16, 1140-1147		7
1312	Unraveling stress-induced toxicity properties of graphene oxide and the underlying mechanism. 2012 , 24, 5391-7		197
1311	Electrodeposition of Prussian Blue Nanoparticles on Electrochemically Reduced Graphene Oxide and Synergistically Electrocatalytic Activity toward Guanine. 2012 , 30, 1966-1969		4
1310	Novel multifunctional graphene sheets with encased Au/Ag nanoparticles for advanced electrochemical analysis of organic compounds. 2012 , 13, 3632-9		19
1309	Electrochemical detection of dopamine in the presence of epinephrine, uric acid and ascorbic acid using a graphene-modified electrode. 2012 , 4, 1687		76
1308	Graphene based catalysts. 2012 , 5, 8848		642
1307	CHAPTER 8: Making Sense of Catalysis: The Potential of DNAzymes as Biosensors. 2012 , 190-210		
1306	An electrochemically reduced graphene oxide-based electrochemical immunosensing platform for ultrasensitive antigen detection. <i>Analytical Chemistry</i> , 2012 , 84, 1871-8	7.8	159
1305	A glassy carbon electrode modified with electrochemically reduced graphene for simultaneous determination of guanine and adenine. 2012 , 4, 2935		27
1304	Step like surface potential on few layered graphene oxide. 2012 , 101, 263109		17
1303	Biomedical Applications of Graphene: Opportunities and Challenges. 2012 , 373-408		
1302	Toward single-DNA electrochemical biosensing by graphene nanowalls. 2012 , 6, 2904-16		378

1301	Graphene enhanced electron transfer at aptamer modified electrode and its application in biosensing. <i>Analytical Chemistry</i> , 2012 , 84, 7301-7	7.8	100
1300	Fully integrated biochip platforms for advanced healthcare. 2012 , 12, 11013-60		57
1299	Application of thermally reduced graphene oxide modified electrode in simultaneous determination of dihydroxybenzene isomers. 2012 , 174, 441-448		81
1298	Electrochemical measurement of the DNA bases adenine and guanine at surfactant-free graphene modified electrodes. 2012 , 2, 5800		33
1297	Facile preparation of graphene-copper nanoparticle composite by in situ chemical reduction for electrochemical sensing of carbohydrates. <i>Analytical Chemistry</i> , 2012 , 84, 171-8	7.8	192
1296	Electrochemical biosensor based on reduced graphene oxide and Au nanoparticles entrapped in chitosan/silica sol-gel hybrid membranes for determination of dopamine and uric acid. <i>Journal of Electroanalytical Chemistry</i> , 2012 , 682, 158-163	4.1	88
1295	Synthesis of CuO/graphene nanocomposites for nonenzymatic electrochemical glucose biosensor applications. <i>Electrochimica Acta</i> , 2012 , 82, 152-157	6.7	185
1294	Facile and controllable synthesis of Prussian blue on chitosan-functionalized graphene nanosheets for the electrochemical detection of hydrogen peroxide. <i>Electrochimica Acta</i> , 2012 , 81, 37-43	6.7	63
1293	Electrochemical behaviors and simultaneous determination of guanine and adenine based on graphene/boric liquid-chitosan composite film modified glassy carbon electrode. <i>Electrochimica Acta</i> , 2012 , 80, 346-353	6.7	90
1292	Electrostatic self-assembly for preparation of sulfonated graphene/gold nanoparticle hybrids and their application for hydrogen peroxide sensing. <i>Electrochimica Acta</i> , 2012 , 85, 628-635	6.7	57
1291	Graphene-based multilayers: Critical evaluation of materials assembly techniques. 2012 , 7, 430-447		112
1290	RECENT ADVANCES IN GRAPHENE-BASED NANOMATERIALS FOR BIOMEDICAL APPLICATIONS. 2012 , 02, 1230001		34
1289	A new approach to reduced graphite oxide with tetrathiafulvalene in the presence of metal ions. 2012 , 22, 4391		16
1288	Ferrocene functionalized graphene: preparation, characterization and efficient electron transfer toward sensors of H ₂ O ₂ . 2012 , 22, 6165		73
1287	Synthesis of phospholipid monolayer membrane functionalized graphene for drug delivery. 2012 , 22, 20634		51
1286	Electrochemical immunoassay of carcinoembryonic antigen based on TiO ₂ /graphene / thionine / gold nanoparticles composite. 2012 , 90, 608-615		24
1285	One pot glucose detection by [Fe(III)(biuret-amide)] immobilized on mesoporous silica nanoparticles: an efficient HRP mimic. <i>Chemical Communications</i> , 2012 , 48, 5289-91	5.8	53
1284	Inkjet-printed graphene-PEDOT:PSS modified screen printed carbon electrode for biochemical sensing. 2012 , 22, 5478		130

1283 Carbon. **2012**, 41-79

1282 Application of electrochemically reduced graphene oxide on screen-printed ion-selective electrode. *Analytical Chemistry*, **2012**, 84, 3473-9 7.8 135

1281 Direct electrochemistry and electrocatalysis of a glucose oxidase-functionalized bioconjugate as a trace label for ultrasensitive detection of thrombin. *Chemical Communications*, **2012**, 48, 10972-4 5.8 56

1280 Electrocatalytic oxidation of NADH based on polyluminal and functionalized multi-walled carbon nanotubes. **2012**, 137, 1378-83 17

1279 A voltammetric sensor based on electrochemically reduced graphene modified electrode for sensitive determination of midecamycin. **2012**, 4, 3013 18

1278 Intensification of electrochemiluminescence of luminol on TiO₂ supported Au atomic cluster nano-hybrid modified electrode. **2012**, 137, 1922-9 47

1277 A graphene oxide-rhodamine 6G nanocomposite as turn-on fluorescence probe for selective detection of DNA. **2012**, 4, 360 19

1276 3-Glycidoxypropyltrimethoxysilane mediated in situ synthesis of noble metal nanoparticles: application to hydrogen peroxide sensing. **2012**, 137, 376-85 42

1275 Label-free and sensitive thrombin sensing on a molecularly grafted aptamer on graphene. *Chemical Communications*, **2012**, 48, 738-40 5.8 59

1274 Simple and label-free electrochemical assay for signal-on DNA hybridization directly at undecorated graphene oxide. **2012**, 753, 82-9 72

1273 Sensitive determination of (-)-epigallocatechin gallate in tea infusion using a novel ionic liquid carbon paste electrode. **2012**, 60, 6333-40 38

1272 Graphene Doped Molecularly Imprinted Electrochemical Sensor for Uric Acid. **2012**, 45, 2717-2727 21

1271 Electrochemical oxidation of pyrogallol: formation and characterization of long-lived oxygen radicals and application to assess the radical scavenging abilities of antioxidants. **2012**, 116, 12567-73 7

1270 Gold-Nanoparticle Decorated Graphene-Nanostructured Polyaniline Nanocomposite-Based Bi enzymatic Platform for Cholesterol Sensing. **2012**, 2012, 1-12 14

1269 Molecular beacon lighting up on graphene oxide. *Analytical Chemistry*, **2012**, 84, 4192-8 7.8 137

1268 Biological and chemical sensors based on graphene materials. **2012**, 41, 2283-307 1384

1267 A graphene-cobalt oxide based needle electrode for non-enzymatic glucose detection in micro-droplets. *Chemical Communications*, **2012**, 48, 6490-2 5.8 145

1266 Electrochemically reduced single-layer MoS₂ nanosheets: characterization, properties, and sensing applications. **2012**, 8, 2264-70 333

1265	Electrically controlled electron transfer and resistance switching in reduced graphene oxide noncovalently functionalized with thionine. 2012 , 22, 16422		33
1264	Au-TiO ₂ /Graphene Nanocomposite Film for Electrochemical Sensing of Hydrogen Peroxide and NADH. <i>Electroanalysis</i> , 2012 , 24, 1334-1339	3	45
1263	Oxidation of DNA Bases Influenced by the Presence of Other Bases. <i>Electroanalysis</i> , 2012 , 24, 1147-1152		12
1262	Study of Inhibition, Reactivation and Aging Processes of Pesticides Using Graphene Nanosheets/Gold Nanoparticles-Based Acetylcholinesterase Biosensor. <i>Electroanalysis</i> , 2012 , 24, n/a-n/a ³		2
1261	Sulfated graphene as an efficient solid catalyst for acid-catalyzed liquid reactions. 2012 , 22, 5495		219
1260	Synthesis of Potassium-Modified Graphene and Its Application in Nitrite-Selective Sensing. 2012 , 22, 1981-1988		90
1259	Definitive Evidence for Fast Electron Transfer at Pristine Basal Plane Graphite from High-Resolution Electrochemical Imaging. 2012 , 124, 5501-5504		24
1258	Definitive evidence for fast electron transfer at pristine basal plane graphite from high-resolution electrochemical imaging. 2012 , 51, 5405-8		126
1257	Facile Fabrication of a Graphene-based Electrochemical Biosensor for Glucose Detection. 2012 , 30, 1163-1167		16
1256	Enhancement of quaternary nitrogen doping of graphene oxide via chemical reduction prior to thermal annealing and an investigation of its electrochemical properties. 2012 , 22, 14756		54
1255	Disposable immunoassay for hepatitis B surface antigen based on a graphene paste electrode functionalized with gold nanoparticles and a Nafion-cysteine conjugate. 2012 , 177, 419-426		45
1254	A glassy carbon electrode modified with graphene and poly(acridine red) for sensing uric acid. 2012 , 178, 115-121		27
1253	A novel hydrogen peroxide sensor based on Ag nanoparticles electrodeposited on chitosan-graphene oxide/cysteamine-modified gold electrode. 2012 , 16, 1693-1700		51
1252	Functionalization of graphene with Prussian blue and its application for amperometric sensing of H ₂ O ₂ . 2012 , 16, 2235-2241		29
1251	Electrochemical determination of nonylphenol based on ionic liquid-functionalized graphene nanosheet modified glassy carbon electrode and its interaction with DNA. 2012 , 16, 2837-2843		16
1250	Nanomaterial-based biosensor as an emerging tool for biomedical applications. 2012 , 40, 1384-97		59
1249	A urea electrochemical sensor based on molecularly imprinted chitosan film doping with CdS quantum dots. 2012 , 426, 40-6		54
1248	Escherichia coli bacteria reduce graphene oxide to bactericidal graphene in a self-limiting manner. 2012 , 50, 1853-1860		412

1247	Femtosecond laser forming of nanostructured glassy carbon: Improved electrocatalytic behavior for electrooxidation of biomolecules. 2012 , 15, 38-41		3
1246	Enhanced electrocatalytic activity of nitrogen-doped graphene for the reduction of nitro explosives. 2012 , 16, 30-33		33
1245	Electrochemical sensing platform based on palladium modified ceria nanoparticles. <i>Electrochimica Acta</i> , 2012 , 61, 173-178	6.7	25
1244	Electrochemical myoglobin biosensor based on graphene/β-cyclodextrin liquid chitosan bionanocomposites: Direct electrochemistry and electrocatalysis. <i>Electrochimica Acta</i> , 2012 , 64, 183-189	6.7	63
1243	Flower-like Bi ₂ Se ₃ nanostructures: Synthesis and their application for the direct electrochemistry of hemoglobin and H ₂ O ₂ detection. <i>Electrochimica Acta</i> , 2012 , 64, 171-176	6.7	32
1242	Synthesis of reduced graphene nanosheet/urchin-like manganese dioxide composite and high performance as supercapacitor electrode. <i>Electrochimica Acta</i> , 2012 , 69, 112-119	6.7	130
1241	Decorating graphene sheets with gold nanoparticles for the detection of sequence-specific DNA. <i>Electrochimica Acta</i> , 2012 , 71, 239-245	6.7	63
1240	Electrochemically functional graphene nanostructure and layer-by-layer nanocomposite incorporating adsorption of electroactive methylene blue. <i>Electrochimica Acta</i> , 2012 , 75, 71-79	6.7	28
1239	Adsorption behavior of ractopamine on carbon nanoparticle modified electrode and its analytical application. <i>Electrochimica Acta</i> , 2012 , 77, 83-88	6.7	15
1238	Electrochemical biosensor based on graphene oxide-Au nanoclusters composites for L-cysteine analysis. 2012 , 31, 49-54		179
1237	Graphene nanosheets modified glassy carbon electrode for simultaneous detection of heroine, morphine and noscipine. 2012 , 31, 205-11		93
1236	Gold nano particle decorated graphene core first generation PAMAM dendrimer for label free electrochemical DNA hybridization sensing. 2012 , 31, 406-12		72
1235	Electrochemical oxidation of purine and pyrimidine bases based on the boron-doped nanotubes modified electrode. 2012 , 31, 469-74		32
1234	Layer-by-layer self-assembly of functionalized graphene nanoplates for glucose sensing in vivo integrated with on-line microdialysis system. 2012 , 32, 118-26		83
1233	Highly sensitive electrochemical detection of cocaine on graphene/AuNP modified electrode via catalytic redox-recycling amplification. 2012 , 32, 305-8		92
1232	Triplex signal amplification for electrochemical DNA biosensing by coupling probe-gold nanoparticles-graphene modified electrode with enzyme functionalized carbon sphere as tracer. 2012 , 33, 228-32		85
1231	Simultaneous determination of ascorbic acid, dopamine and uric acid using high-performance screen-printed graphene electrode. 2012 , 34, 70-6		317
1230	Layer-by-layer assembly of chemical reduced graphene and carbon nanotubes for sensitive electrochemical immunoassay. 2012 , 35, 63-68		138

1229	Sensitive colorimetric visualization of dihydronicotinamide adenine dinucleotide based on anti-aggregation of gold nanoparticles via boronic acid-diol binding. 2012 , 35, 443-446		31
1228	Fabrication of stratified nanoporous gold for enhanced biosensing. 2012 , 35, 349-354		7
1227	DNA electrochemical biosensor based on thionine-graphene nanocomposite. 2012 , 35, 507-511		132
1226	Catalytic activity of graphene-cobalt hydroxide composite for oxygen reduction reaction in alkaline media. 2012 , 198, 122-126		85
1225	Preparation of Pt/poly(pyrogallol)/graphene electrode and its electrocatalytic activity for methanol oxidation. 2012 , 203, 48-56		25
1224	Electrochemical immunoassay based on gold nanoparticles and reduced graphene oxide functionalized carbon ionic liquid electrode. 2012 , 103, 125-130		38
1223	Facile synthesis of zirconia nanoparticles-decorated graphene hybrid nanosheets for an enzymeless methyl parathion sensor. 2012 , 162, 341-347		102
1222	Simultaneous determination of catechol and hydroquinone using electrospun carbon nanofibers modified electrode. 2012 , 163, 179-185		157
1221	A highly sensitive nitric oxide biosensor based on hemoglobin-chitosan/graphene-hexadecyltrimethylammonium bromide nanomatrix. 2012 , 166-167, 444-450		40
1220	Fabrication of polypyrrole/graphene oxide nanocomposites by liquid/liquid interfacial polymerization and evaluation of their optical, electrical and electrochemical properties. 2012 , 53, 923-932		229
1219	Comparative studies on single-layer reduced graphene oxide films obtained by electrochemical reduction and hydrazine vapor reduction. 2012 , 7, 161		66
1218	Biofuel Cells for Self-Powered Electrochemical Biosensing and Logic Biosensing: A Review. <i>Electroanalysis</i> , 2012 , 24, 197-209	3	138
1217	A novel graphene oxide-based surface plasmon resonance biosensor for immunoassay. 2013 , 9, 2537-40		48
1216	Graphene oxide nanoribbons (GNO), reduced graphene nanoribbons (GNR), and multi-layers of oxidized graphene functionalized with ionic liquids (GO-IL) for assembly of miniaturized electrochemical devices. 2013 , 405, 3449-74		35
1215	Prospects for graphene-nanoparticle-based hybrid sensors. 2013 , 15, 12785-99		132
1214	High-performance flexible potentiometric sensing devices using free-standing graphene paper. 2013 , 1, 4781-4791		49
1213	DNA Nanotechnology. 2013 ,		4
1212	Ultrasensitive chemiluminescent immunoassay labeled with graphene oxide. 2013 , 5, 3646		4

1211	Applications of Nanomaterials in Sensors and Diagnostics. 2013 ,		24
1210	Preparation, characterization, and rheological properties of graphene-glycerol nanofluids. 2013 , 231, 365-372		107
1209	Highly sensitive reduced graphene oxide impedance sensor harnessing π -stacking interaction mediated direct deposition of protein probes. 2013 , 5, 3591-8		35
1208	Electrochemical Investigation of Cytochrome c Immobilized onto Self-Assembled Monolayer of Captopril. <i>Electroanalysis</i> , 2013 , 25, 1689-1696	3	7
1207	Preparation of reduced graphene oxide decorated with high density Ag nanorods for non-enzymatic hydrogen peroxide detection. 2013 , 3, 14303		30
1206	Graphene-modified electrode for DNA detection via PNADNA hybridization. 2013 , 186, 563-570		38
1205	L-Lactic acid biosensor based on multi-layered graphene. 2013 , 43, 985-994		11
1204	Application of graphene oxide sheets incorporated in the porous calcium alginate films on the glassy carbon electrode for biosensor construction based on myoglobin. 2013 , 43, 975-984		7
1203	Electrochemical reduction synthesis of graphene/Nafion nanocomposite film and its performance on the detection of 8-hydroxy-2'-deoxyguanosine in the presence of uric acid. <i>Journal of Electroanalytical Chemistry</i> , 2013 , 705, 37-43	4.1	35
1202	Nitrogen doped graphene nanosheet supported platinum nanoparticles as high performance electrochemical homocysteine biosensors. 2013 , 1, 4655-4666		50
1201	An approach toward SNP detection by modulating the fluorescence of DNA-templated silver nanoclusters. 2013 , 43, 419-24		35
1200	Self-degradable template synthesis of polyaniline nanotubes and their high performance in the detection of dopamine. 2013 , 1, 9775		42
1199	On the Electrochemical Response of Porous Functionalized Graphene Electrodes. 2013 , 117, 16076-16086		74
1198	Electrocatalytic oxidation and the simultaneous determination of guanine and adenine on (2,6-pyridinedicarboxylic acid)/graphene composite film modified electrode. <i>Journal of Electroanalytical Chemistry</i> , 2013 , 704, 44-49	4.1	32
1197	Rapid electrochemical detection of ferulic acid based on a graphene modified glass carbon electrode. 2013 , 5, 3834		12
1196	A sensitive electrochemical immunosensor for alpha-fetoprotein based on covalently incorporating a bio-recognition element onto a graphene modified electrode via diazonium chemistry. 2013 , 5, 5195		14
1195	Three-dimensional graphene micropillar based electrochemical sensor for phenol detection. 2013 , 50, 387-92		88
1194	Novel determination of hydrogen peroxide by electrochemically reduced graphene oxide grafted with aminothiophenol-Bd nanoparticles. 2013 , 178, 450-457		67

1193	Silver nanoparticle decorated reduced graphene oxide (rGO) nanosheet: a platform for SERS based low-level detection of uranyl ion. 2013 , 5, 8724-32	222
1192	Electrochemical biosensors on platforms of graphene. <i>Chemical Communications</i> , 2013 , 49, 9526-39	5.8 134
1191	One-step electrodeposition synthesis of silver-nanoparticle-decorated graphene on indium-tin-oxide for enzymeless hydrogen peroxide detection. 2013 , 62, 405-412	109
1190	Highly sensitive and selective amperometric sensor for iodate based on 9,10-phenanthrenequinone derived graphene. 2013 , 29, 132-138	3
1189	Benzoin derived reduced graphene oxide (rGO) and its nanocomposite: application in dye removal and peroxidase-like activity. 2013 , 3, 21475	30
1188	Synthesis of graphene-supported noble metal hybrid nanostructures and their applications as advanced electrocatalysts for fuel cells. 2013 , 5, 10765-75	53
1187	An electrochemiluminescence aptasensor for thrombin using graphene oxide to immobilize the aptamer and the intercalated [Formula: see text] probe. 2013 , 48, 120-5	50
1186	Direct mapping of local redox current density on a monolith electrode by laser scanning. 2013 , 47, 408-14	8
1185	A novel impedimetric biosensor based on graphene oxide/gold nanoplatfom for detection of DNA arrays. 2013 , 188, 1201-1211	112
1184	Simultaneous determination of hydroquinone and catechol based on glassy carbon electrode modified with gold-graphene nanocomposite. 2013 , 180, 461-468	63
1183	Preparation of crumpled reduced graphene oxide/poly(p-phenylenediamine) hybrids for the detection of dopamine. 2013 , 1, 13314	52
1182	Preparation of graphene nanosheets/SnO ₂ composites by pre-reduction followed by in-situ reduction and their electrochemical performances. 2013 , 141, 1-8	33
1181	Ultrasensitive electrochemical immunoassay for carcinoembryonic antigen based on three-dimensional macroporous gold nanoparticles/graphene composite platform and multienzyme functionalized nanoporous silver label. 2013 , 775, 85-92	59
1180	Effects of Al(III) and Nano- $\{rm Al\}_{13}$ on Aldehyde Dehydrogenase Activity on Reduced Graphene Oxide Modified Electrode. 2013 , 13, 314-320	2
1179	Graphene oxide and reduced graphene oxide as novel stationary phases via electrostatic assembly for open-tubular capillary electrochromatography. 2013 , 34, 1869-76	28
1178	The application of thionine-graphene nanocomposite in chiral sensing for Tryptophan enantiomers. 2013 , 94, 87-93	38
1177	Synthesis of graphene oxide based CuO nanoparticles composite electrode for highly enhanced nonenzymatic glucose detection. 2013 , 5, 12928-34	204
1176	Graphene/poly(ethylene-co-vinyl acetate) composite electrode fabricated by melt compounding for capillary electrophoretic determination of flavones in <i>Cacumen platycladi</i> . 2013 , 36, 721-8	11

1175	Electrochemical determination of nonylphenol using differential pulse voltammetry based on a grapheneDNA-modified glassy carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , 2013 , 703, 153-157	4.1	22
1174	Electrochemical Determination of 4-Nonylphenol on Graphene-Chitosan Modified Glassy Carbon Electrode. 2013 , 41, 675-680		16
1173	Preparation and retention mechanism study of graphene and graphene oxide bonded silica microspheres as stationary phases for high performance liquid chromatography. 2013 , 1307, 135-43		63
1172	Simultaneous electrochemical detection of ascorbic acid, dopamine and uric acid based on nitrogen doped porous carbon nanopolyhedra. 2013 , 1, 2742-2749		143
1171	Quantification of Bax protein on tumor cells based on electrochemical immunoassay. 2013 , 186, 506-514		7
1170	Inherently electroactive graphene oxide nanoplatelets as labels for specific protein-target recognition. 2013 , 5, 7844-8		29
1169	Nucleic Acid Detection. 2013 ,		
1168	Electrochemical sensing of nitric oxide with functionalized graphene electrodes. 2013 , 5, 12624-30		33
1167	4th International Conference on Biomedical Engineering in Vietnam. 2013 ,		3
1166	Noncovalent nanohybrid of ferrocene with chemically reduced graphene oxide and its application to dual biosensor for hydrogen peroxide and choline. <i>Electrochimica Acta</i> , 2013 , 95, 18-23	6.7	59
1165	A novel platform for enhanced biosensing based on the synergy effects of electrospun polymer nanofibers and graphene oxides. 2013 , 138, 1459-66		48
1164	Graphene-PAMAM dendrimer-gold nanoparticle composite for electrochemical DNA hybridization detection. 2013 , 1039, 201-19		8
1163	Toxicity analysis of graphene nanoflakes by cell-based electrochemical sensing using an electrode modified with nanocomposite of graphene and Nafion. 2013 , 188, 454-461		20
1162	Graphene-MnO ₂ nanocomposite modified carbon ionic liquid electrode for the sensitive electrochemical detection of rutin. 2013 , 178, 443-449		54
1161	Noncovalent nanohybrid of cobalt tetraphenylporphyrin with graphene for simultaneous detection of ascorbic acid, dopamine, and uric acid. <i>Electrochimica Acta</i> , 2013 , 114, 341-346	6.7	44
1160	Surface Chemical Modification of Carbon Nanowalls for Wide-Range Control of Surface Wettability. 2013 , 10, 582-592		25
1159	Synthesis of a hydrophilic poly-L-lysine/graphene hybrid through multiple non-covalent interactions for biosensors. 2013 , 1, 1406-1413		50
1158	The effect of degree of reduction on the electrical properties of functionalized graphene sheets. 2013 , 102, 023114		98

1157	An overview of the engineered graphene nanostructures and nanocomposites. 2013 , 3, 22790		167
1156	One-step potentiodynamic synthesis of poly(1,5-diaminoanthraquinone)/reduced graphene oxide nanohybrid with improved electrocatalytic activity. 2013 , 1, 13902		47
1155	A novel sensitive Cu(II) and Cd(II) nanosensor platform: Graphene oxide terminated p-aminophenyl modified glassy carbon surface. <i>Electrochimica Acta</i> , 2013 , 112, 541-548	6.7	104
1154	Synthesis of carboxylate-functionalized graphene nanosheets for high dispersion of platinum nanoparticles based on the reduction of graphene oxide via 1-pyrenecarboxaldehyde. 2013 , 24, 395604		8
1153	Construction of a carbon paste electrode based on ionic liquid for trace electrochemical detection of nitrite in food samples. 2013 , 5, 5146		10
1152	Synchronous electrosynthesis of poly(xanthurenic acid)-reduced graphene oxide nanocomposite for highly sensitive impedimetric detection of DNA. 2013 , 5, 3495-9		50
1151	Electrochemical co-reduction synthesis of graphene/nano-gold composites and its application to electrochemical glucose biosensor. <i>Electrochimica Acta</i> , 2013 , 112, 774-782	6.7	79
1150	Spontaneous redox synthesis of Prussian blue/graphene nanocomposite as a non-precious metal catalyst for efficient four-electron oxygen reduction in acidic medium. 2013 , 240, 101-108		39
1149	Biomedical Applications of Nanomaterials: An Overview. 2013 , 1-32		11
1148	One-step solution-phase synthesis of a novel RGO/TiO ₂ ternary nanocomposite with excellent cycling stability for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2013 , 581, 303-307	5.7	24
1147	Biosensor based on ultras-small MoS ₂ nanoparticles for electrochemical detection of H ₂ O ₂ released by cells at the nanomolar level. <i>Analytical Chemistry</i> , 2013 , 85, 10289-95	7.8	361
1146	Electrochemically Reduced Graphene Oxide Film Modified Electrode for Detection of Hydrogen Peroxide. 2013 , 538, 165-168		1
1145	Surface Charge Research of Graphene Oxide, Chemically Reduced Graphene Oxide and Thermally Exfoliated Graphene Oxide. 2013 , 716, 127-131		19
1144	Reagentless Biosensor Using for Stereospecific Interaction between IgG and N-isobutyryl-cysteine. <i>Journal of the Electrochemical Society</i> , 2013 , 160, B102-B106	3.9	1
1143	BSA-rGO nanocomposite hydrogel formed by UV polymerization and in situ reduction applied as biosensor electrode. 2013 , 1, 5393-5397		19
1142	Enhancing electro-codeposition and electrocatalytic properties of poly(neutral red) and FAD to determine NADH and H ₂ O ₂ using amino-functionalized multi-walled carbon nanotubes. 2013 , 3, 25727		6
1141	NADH Electrocatalytic Oxidation on Gold Nanoparticle-Modified PVC/TTF-TCNQ Composite Electrode. Application as Amperometric Sensor. <i>Electroanalysis</i> , 2013 , 25, 1981-1987	3	9
1140	A disposable screen printed graphene-carbon paste electrode and its application in electrochemical sensing. 2013 , 3, 25792		33

1139	Probe-label-free electrochemical aptasensor based on methylene blue-anchored graphene oxide amplification. 2013 , 1, 861-864		41
1138	Recent progress in graphene-based nanomaterials as advanced electrocatalysts towards oxygen reduction reaction. 2013 , 5, 1753-67		312
1137	A functional graphene oxide-ionic liquid composites-gold nanoparticle sensing platform for ultrasensitive electrochemical detection of Hg ²⁺ . 2013 , 138, 1091-7		118
1136	Highly concentrated polycations-functionalized graphene nanosheets with excellent solubility and stability, and its fast, facile and controllable assembly of multiple nanoparticles. 2013 , 5, 663-70		43
1135	Electrochemically reduced graphene oxide and Nafion nanocomposite for ultralow potential detection of organophosphate pesticide. 2013 , 177, 724-729		90
1134	Cobalt and nitrogen-cofunctionalized graphene as a durable non-precious metal catalyst with enhanced ORR activity,. 2013 , 1, 3593		150
1133	Facile assembly of graphene on anion exchange resin microspheres for electrochemical sensing and biosensing. 2013 , 8, 191-7		5
1132	Comparative Response of Biosensing Platforms Based on Synthesized Graphene Oxide and Electrochemically Reduced Graphene. <i>Electroanalysis</i> , 2013 , 25, 154-165	3	39
1131	Simultaneous detection of guanine, adenine, thymine, and cytosine at polyaniline/MnO ₂ modified electrode. <i>Electrochimica Acta</i> , 2013 , 114, 285-295	6.7	97
1130	Electrochemiluminescence immunosensor based on graphene oxide nanosheets/polyaniline nanowires/CdSe quantum dots nanocomposites for ultrasensitive determination of human interleukin-6. <i>Electrochimica Acta</i> , 2013 , 113, 176-180	6.7	59
1129	One-step fabrication of integrated disposable biosensor based on ADH/NAD ⁺ /meldola's blue/graphitized mesoporous carbons/chitosan nanobiocomposite for ethanol detection. 2013 , 111, 163-9		25
1128	Graphene-epoxy composite electrode fabricated by in situ polycondensation for enhanced amperometric detection in capillary electrophoresis. 2013 , 1316, 127-34		15
1127	Development of a novel electrochemical sensor using pheochromocytoma cells and its assessment of acrylamide cytotoxicity. 2013 , 44, 122-6		30
1126	Facile Synthesis of Graphene-poly(styrene sulfonate)-Pt Nanocomposite and Its Application in Amperometric Determination of Dopamine. 2013 , 41, 714-718		11
1125	Redox-active thionine-graphene oxide hybrid nanosheet: one-pot, rapid synthesis, and application as a sensing platform for uric acid. 2013 , 761, 84-91		39
1124	Electrochemical determination of nicotinamide adenine dinucleotide and hydrogen peroxide based on poly(xanthurenic acid), flavin adenine dinucleotide and functionalized multi-walled carbon nanotubes. 2013 , 184, 212-219		31
1123	Graphene based materials for biomedical applications. 2013 , 16, 365-373		467
1122	Application of carboxyl functionalized graphene oxide as mimetic peroxidase for sensitive voltammetric detection of H ₂ O ₂ with 3,3',5,5'-tetramethylbenzidine. 2013 , 26, 113-116		35

1121	A novel composite film derived from cysteic acid and PDDA-functionalized graphene: enhanced sensing material for electrochemical determination of metronidazole. 2013 , 104, 204-11		65
1120	Colorimetric detection of DNA damage by using hemin-graphene nanocomposites. 2013 , 106, 163-9		23
1119	One-pot hydrothermal synthesis and characterization of FeS ₂ (pyrite)/graphene nanocomposite. 2013 , 218, 276-284		55
1118	Electrochemical biosensor based on reduced graphene oxide modified electrode with Prussian blue and poly(toluidine blue O) coating. <i>Electrochimica Acta</i> , 2013 , 89, 454-460	6.7	47
1117	Graphene/PEDOT:PSS on screen printed carbon electrode for enzymatic biosensing. <i>Journal of Electroanalytical Chemistry</i> , 2013 , 704, 208-213	4.1	54
1116	Graphene-based photothermal agent for rapid and effective killing of bacteria. 2013 , 7, 1281-90		425
1115	Biomedical Applications of Carbon-Based Nanomaterials. 2013 , 443-463		2
1114	Graphene quantum dots/gold electrode and its application in living cell H ₂ O ₂ detection. 2013 , 5, 1816-9		220
1113	Electrophoretically deposited reduced graphene oxide platform for food toxin detection. 2013 , 5, 3043-51		136
1112	Combination of cascade chemical reactions with graphene-DNA interaction to develop new strategy for biosensor fabrication. 2013 , 47, 32-7		41
1111	Graphene: promises, facts, opportunities, and challenges in nanomedicine. 2013 , 113, 3407-24		563
1110	Direct and freely switchable detection of target genes engineered by reduced graphene oxide-poly(m-aminobenzenesulfonic acid) nanocomposite via synchronous pulse electrosynthesis. <i>Analytical Chemistry</i> , 2013 , 85, 1358-66	7.8	59
1109	Application of reduced graphene oxide and carbon nanotube modified electrodes for measuring the enzymatic activity of alcohol dehydrogenase. 2013 , 138, 2195-200		6
1108	Graphene oxide/poly-L-lysine assembled layer for adhesion and electrochemical impedance detection of leukemia K562 cancer cells. 2013 , 42, 112-8		91
1107	A green and efficient method to produce graphene for electrochemical capacitors from graphene oxide using sodium carbonate as a reducing agent. 2013 , 268, 541-546		81
1106	Electrochemical sensing based on layered MoS ₂ /graphene composites. 2013 , 178, 671-677		157
1105	Graphene-based electrochemical sensors. 2013 , 9, 1160-72		434
1104	Highly selective gas sensor arrays based on thermally reduced graphene oxide. 2013 , 5, 5426-34		219

1103	Calix[4,6,8]arenesulfonates functionalized reduced graphene oxide with high supramolecular recognition capability: fabrication and application for enhanced host-guest electrochemical recognition. 2013 , 5, 828-36		85
1102	Atomic scale imaging and spectroscopic characterization of electrochemically reduced graphene oxide. 2013 , 611, 54-59		60
1101	Graphene nanoplatelets: electrochemical properties and applications for oxidation of endocrine-disrupting chemicals. 2013 , 19, 3483-9		34
1100	Novel synthesis of Prussian blue nanoparticles and nanocomposite sol: Electro-analytical application in hydrogen peroxide sensing. <i>Electrochimica Acta</i> , 2013 , 87, 1-8	6.7	37
1099	Large-area, three-dimensional interconnected graphene oxide intercalated with self-doped polyaniline nanofibers as a free-standing electrocatalytic platform for adenine and guanine. 2013 , 1, 2926-2933		36
1098	Graphene-Based Chemical and Biosensors. 2013 , 103-141		9
1097	Graphene-Based Optical and Electrochemical Biosensors: A Review. 2013 , 46, 1-17		60
1096	Graphene in lithium ion battery cathode materials: A review. 2013 , 240, 66-79		436
1095	Enzyme Immobilization on Carboxyl-Functionalized Graphene Oxide for Catalysis in Organic Solvent. 2013 , 52, 6343-6348		66
1094	Electrochemical biosensor based on silver nanoparticles-polydopamine-graphene nanocomposite for sensitive determination of adenine and guanine. 2013 , 114, 43-8		74
1093	Electrochemical determination of Sudan I in food samples at graphene modified glassy carbon electrode based on the enhancement effect of sodium dodecyl sulphonate. 2013 , 138, 739-44		46
1092	Graphene nanoelectrodes: fabrication and size-dependent electrochemistry. 2013 , 135, 10073-80		80
1091	Core-shell Fe ₃ O ₄ -Au magnetic nanoparticles based nonenzymatic ultrasensitive electrochemiluminescence immunosensor using quantum dots functionalized graphene sheet as labels. 2013 , 770, 132-9		46
1090	Synthesis of 1,3-di(4-amino-1-pyridinium)propane ionic liquid functionalized graphene nanosheets and its application in direct electrochemistry of hemoglobin. <i>Electrochimica Acta</i> , 2013 , 95, 71-79	6.7	24
1089	A switch of the oxidation state of graphene oxide on a surface plasmon resonance chip. 2013 , 5, 2096-103		33
1088	Influence of chemical oxidation upon the electro-catalytic properties of graphene-gold nanoparticle composite. <i>Electrochimica Acta</i> , 2013 , 91, 137-143	6.7	16
1087	Selective and sensitive determination of uric acid in the presence of ascorbic acid and dopamine by PDDA functionalized graphene/graphite composite electrode. 2013 , 112, 31-6		53
1086	The layer-by-layer assembly of polyelectrolyte functionalized graphene sheets: A potential tool for biosensing. 2013 , 426, 6-11		38

1085	Redox-functionalized graphene oxide architecture for the development of amperometric biosensing platform. 2013 , 5, 4791-8		53
1084	Dendrimer functionalized reduced graphene oxide as nanocarrier for sensitive pseudobienzyme electrochemical aptasensor. 2013 , 42, 474-80		53
1083	Fe ₃ O ₄ magnetic nanoparticles/reduced graphene oxide nanosheets as a novel electrochemical and bioelectrochemical sensing platform. 2013 , 49, 1-8		410
1082	N-hydroxysuccinimide-mediated photoelectrooxidation of aliphatic alcohols based on cadmium telluride nanoparticles decorated graphene nanosheets. <i>Electrochimica Acta</i> , 2013 , 105, 230-238	6.7	15
1081	Electrochemical detection of dopamine using water-soluble sulfonated graphene. <i>Electrochimica Acta</i> , 2013 , 102, 58-65	6.7	109
1080	Voltammetric detection of L-dopa and carbidopa on graphene modified glassy carbon interfaces. 2013 , 93, 15-22		34
1079	Application of graphene-based solid-phase extraction for ultra-fast determination of malachite green and its metabolite in fish tissues. 2013 , 141, 1383-9		44
1078	Pure Graphene Oxide Doped Conducting Polymer Nanocomposite for Bio-interfacing. 2013 , 1, 1340-1348		85
1077	Graphene-induced self-assembly of peptides into macroscopic-scale organized nanowire arrays for electrochemical NADH sensing. 2013 , 29, 8629-35		45
1076	Fabrication of graphene-gold nanocomposites by electrochemical co-reduction and their electrocatalytic activity toward 4-nitrophenol oxidation. <i>Journal of Electroanalytical Chemistry</i> , 2013 , 691, 83-89	4.1	54
1075	Graphene oxide-chitosan nanocomposite based electrochemical DNA biosensor for detection of typhoid. 2013 , 185, 675-684		164
1074	Supramolecular Assembly of DNA on Graphene Nanoribbons. 2013 , 1, 3926-3931		17
1073	Graphene sheet-starch platform based on the groove recognition for the sensitive and highly selective determination of iodide in seafood samples. 2013 , 47, 396-401		12
1072	Electrochemical behavior of graphene/Nafion/Azure I/Au nanoparticles composites modified glass carbon electrode and its application as nonenzymatic hydrogen peroxide sensor. <i>Electrochimica Acta</i> , 2013 , 90, 550-555	6.7	65
1071	Fabrication of graphene/poly(ethyl 2-cyanoacrylate) composite electrode for amperometric detection in capillary electrophoresis. 2013 , 182, 689-695		11
1070	Simple Fabrication of Exfoliated Graphene/Nafion Hybrid as Glucose Bio-sensor Electrodes. 2013 , 54-56		1
1069	A sandwich-type DNA biosensor based on electrochemical co-reduction synthesis of graphene-three dimensional nanostructure gold nanocomposite films. 2013 , 767, 50-8		65
1068	Electrochemical Behavior of Caffeic Acid Assayed with Gold Nanoparticles/Graphene Nanosheets Modified Glassy Carbon Electrode. <i>Electroanalysis</i> , 2013 , 25, 1230-1236	3	43

1067	Electrochemistry at the edge of a single graphene layer in a nanopore. 2013 , 7, 834-43	95
1066	DEFORMATION OF GRAPHENE INDUCED BY ADSORPTION OF PEPTIDES: A MOLECULAR DYNAMICS STUDY. 2013 , 05, 1350007	9
1065	Self-assembled oligo(phenylene ethynylene)s/graphene nanocomposite with improved electrochemical performances for dopamine determination. 2013 , 767, 59-65	22
1064	Electrocatalysis and detection of nitrite on a reduced graphene/Pd nanocomposite modified glassy carbon electrode. 2013 , 185, 602-607	108
1063	Electrogenerated chemiluminescence of luminol at a polyaniline/graphene modified electrode in neutral solution. <i>Electrochimica Acta</i> , 2013 , 91, 240-245	6.7 24
1062	Hydrogen peroxide biosensor based on hemoglobin immobilized at graphene, flower-like zinc oxide, and gold nanoparticles nanocomposite modified glassy carbon electrode. 2013 , 107, 245-50	85
1061	Direct electrochemistry with enhanced electrocatalytic activity of hemoglobin in hybrid modified electrodes composed of graphene and multi-walled carbon nanotubes. 2013 , 781, 41-7	79
1060	Solvated graphenes: an emerging class of functional soft materials. 2013 , 25, 13-30	192
1059	Exploring the origins of the apparent "electrocatalytic" oxidation of kojic acid at graphene modified electrodes. 2013 , 138, 4436-42	29
1058	Preparation of graphitic mesoporous carbon for the simultaneous detection of hydroquinone and catechol. 2013 , 129, 367-374	91
1057	Amperometric immunobiosensor for α -fetoprotein using Au nanoparticles/chitosan/TiO ₂ -graphene composite based platform. 2013 , 90, 18-23	71
1056	A simple route to fabricate controllable and stable multilayered all-MWNTs films and their applications for the detection of NADH at low potentials. 2013 , 39, 289-95	34
1055	Fluorescent aptamer-functionalized graphene oxide biosensor for label-free detection of mercury(II). 2013 , 41, 889-93	189
1054	Layer-by-layer assembly of graphene, Au and poly(toluidine blue O) films sensor for evaluation of oxidative stress of tumor cells elicited by hydrogen peroxide. 2013 , 41, 789-94	88
1053	A novel electrochemiluminescence ethanol biosensor based on tris(2,2'-bipyridine) ruthenium (II) and alcohol dehydrogenase immobilized in graphene/bovine serum albumin composite film. 2013 , 41, 776-82	49
1052	Gold surface supported spherical liposome-gold nano-particle nano-composite for label free DNA sensing. 2013 , 41, 802-8	32
1051	Nonenzymatic hydrogen peroxide electrochemical sensor based on carbon-coated SnO ₂ supported Pt nanoparticles. 2013 , 101, 106-10	43
1050	Amperometric sensor based on a graphene/copper hexacyanoferrate nano-composite for highly sensitive electrocatalytic determination of captopril. 2013 , 33, 774-81	27

1049	Size-controllable preparation of palladium nanoparticles assembled on TiO ₂ /graphene nanosheets and their electrocatalytic activity for glucose biosensing. 2013 , 5, 7049		12
1048	Synthesis, Properties and Potential Applications of Porous Graphene: A Review. 2013 , 5, 260-273		74
1047	Surface modification of a neural sensor using graphene. <i>Electrochimica Acta</i> , 2013 , 94, 42-48	6.7	11
1046	Three-dimensional graphene network composites for detection of hydrogen peroxide. 2013 , 9, 1703-7		99
1045	Preparation of GR/HRP/Chit Modified Electrode and its Electrochemical Behaviors. 2013 , 704, 87-91		
1044	Microstructures and Electrocatalytic Properties of Nitrogen Doped Graphene Synthesized by Pyrolysis of Metal Tetrapyrazinoporphyrazine. 2013 , 275-277, 1762-1768		1
1043	Electrochemical Sensor for o-Nitrophenol Based on Cyclodextrin Functionalized Graphene Nanosheets. 2013 , 2013, 1-6		13
1042	Graphene Research in China. 2013 , 1505, 1		1
1041	Chemometric Strategies to Develop a Nanocomposite Electrode for Simultaneous Determination of Ascorbic Acid, Dopamine, and Uric Acid. <i>Electroanalysis</i> , 2013 , 25, 1988-1994	3	6
1040	Development of an amperometric H ₂ O ₂ sensor based on MOx/reduced graphene oxide nanocomposites. 2013 ,		
1039	CdS quantum dot-decorated titania/graphene nanosheets stacking structures for enhanced photoelectrochemical solar cells. 2013 , 3, 23755		23
1038	Sensitive Voltammetric Determination of Baicalein at Thermally Reduced Graphene Oxide Modified Glassy Carbon Electrode. <i>Electroanalysis</i> , 2013 , 25, 2136-2144	3	26
1037	Carbon-based electrode materials for DNA electroanalysis. 2013 , 29, 385-92		19
1036	Graphene-modified interdigitated array electrode: fabrication, characterization, and electrochemical immunoassay application. 2013 , 29, 55-60		22
1035	A fluorescent nanoprobe based on graphene oxide fluorescence resonance energy transfer for the rapid determination of oncoprotein vascular endothelial growth factor (VEGF). 2013 , 67, 1270-4		29
1034	Ginkgo biloba: a natural reducing agent for the synthesis of cytocompatible graphene. 2014 , 9, 363-77		66
1033	Graphene and Polyaniline Composite Modified Glassy Carbon Electrode for Electrochemical Determination of Doripenem and Meropenem Metabolites. 2014 , 5,		9
1032	. 2014 ,		2

1031	Electrochemical ascorbic acid/hydroquinone detection on graphene electrode and the electro-active site study. 2014 , 9, 452-462		5
1030	Electrochemical Detection of Epinephrine Using an L-Glutamic Acid Functionalized Graphene Modified Electrode. 2014 , 47, 1552-1563		14
1029	AN ELECTRODE MODIFIED WITH AuNPs/GRAPHENE NANOCOMPOSITES FILM FOR THE DETERMINATION OF METHYL PARATHION RESIDUES. 2014 , 09, 1450096		2
1028	Chemical and Biosensors Based on Graphene Materials. 2014 , 235-260		
1027	Graphene and its Nanocomposites for Gas Sensing Applications. 2014 , 467-500		3
1026	Sub-second humidity sensing using surface acoustic waves in electro spray-deposited carbon nanofiber and reduced graphene oxide structures. 2014 ,		
1025	Direct detection of DNA below ppb level based on thionin-functionalized layered MoS ₂ electrochemical sensors. <i>Analytical Chemistry</i> , 2014 , 86, 12064-9	7.8	154
1024	Glutamate biosensors based on diamond and graphene platforms. 2014 , 172, 457-72		28
1023	Application of Electrodepositing Graphene Nanosheets for Latent Fingerprint Enhancement. <i>Electroanalysis</i> , 2014 , 26, 209-215	3	5
1022	A High Performance Electrochemical Biosensing Platform for Glucose Detection and IgE Aptasensing Based on Fe ₃ O ₄ /Reduced Graphene Oxide Nanocomposite. <i>Electroanalysis</i> , 2014 , 26, 129-138		15
1021	Review of Recent Developments in Sensing Materials. 2014 , 47-101		9
1020	Electrosensing Platform for Varenicline Based on Reduced Graphene Oxide. <i>Electroanalysis</i> , 2014 , 26, 2173-2181	3	2
1019	Electrochemical performance of nitrogen and oxygen radio-frequency plasma induced functional groups on tri-layered reduced graphene oxide. 2014 , 1, 025604		12
1018	Electrochemical Property of Graphene Oxide/Nafion/AuNPs Nanocomposite in Electrochemical Sensor. 2014 , 568-570, 542-545		
1017	Nanomaterials for biosensing applications: a review. <i>Frontiers in Chemistry</i> , 2014 , 2, 63	5	587
1016	Graphene nanoplatelets and horseradish peroxidase based biosensor. 2014 , 211, 2795-2800		5
1015	Voltammetric Sensor for Total Cholesterol Determination. 2014 , 10, 513-518		8
1014	Graphene for Biosensor Applications. 2014 , 83-145		

1013	The evolution of surface charge on graphene oxide during the reduction and its application in electroanalysis. 2014 , 66, 302-311		100
1012	Electrochemical sensor for ultrasensitive determination of isoquercitrin and baicalin based on DM- β -cyclodextrin functionalized graphene nanosheets. 2014 , 58, 242-8		63
1011	Ultra-performance liquid chromatography coupled with graphene/polyaniline nanocomposite modified electrode for the determination of sulfonamide residues. 2014 , 123, 115-21		24
1010	Graphene oxide-DNA based sensors. 2014 , 60, 22-9		153
1009	Ultrasensitive IL-6 electrochemical immunosensor based on Au nanoparticles-graphene-silica biointerface. 2014 , 116, 714-9		41
1008	Electrochemical determination of xanthine oxidase inhibitor drug in urate lowering therapy using graphene nanosheets modified electrode. <i>Electrochimica Acta</i> , 2014 , 117, 360-366	6.7	14
1007	Immobilizing haemoglobin on gold/graphene-chitosan nanocomposite as efficient hydrogen peroxide biosensor. 2014 , 197, 164-171		58
1006	A highly sensitive prostate-specific antigen immunosensor based on gold nanoparticles/PAMAM dendrimer loaded on MWCNTS/chitosan/ionic liquid nanocomposite. 2014 , 52, 20-8		169
1005	Electrochemically "writing" graphene from graphene oxide. 2014 , 10, 3555-9		24
1004	Simultaneous electrochemical determination of norepinephrine, ascorbic acid and uric acid using a graphene modified glassy carbon electrode. <i>Russian Journal of Electrochemistry</i> , 2014 , 50, 154-161	1.2	11
1003	Electrochemical preparation of Ag nanoparticles/poly(methylene blue) functionalized graphene nanocomposite film modified electrode for sensitive determination of rutin. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 717-718, 225-230	4.1	32
1002	Non-enzymatic glucose biosensor based on copper oxide-reduced graphene oxide nanocomposites synthesized from water-isopropanol solution. <i>Electrochimica Acta</i> , 2014 , 130, 253-260	6.7	82
1001	Electrochemical determination of lead and cadmium in rice by a disposable bismuth/electrochemically reduced graphene/ionic liquid composite modified screen-printed electrode. 2014 , 199, 7-14		97
1000	Simultaneous determination of dihydroxybenzene isomers based on graphene-graphene oxide nanocomposite modified glassy carbon electrode. 2014 , 193, 198-204		35
999	Integrated graphene/nanoparticle hybrids for biological and electronic applications. 2014 , 6, 6245-66		98
998	A review of organic and inorganic biomaterials for neural interfaces. 2014 , 26, 1846-85		370
997	A review of graphene and graphene oxide sponge: material synthesis and applications to energy and the environment. 2014 , 7, 1564		860
996	Solar graphene modified glassy carbon electrode for the voltammetric resolution and detection of dopamine, ascorbic acid and uric acid. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 720-721, 107-114	4.1	19

995	Electrochemical behavior and voltammetric determination of ammonium dinitramide using a graphene film modified glassy carbon electrode. <i>Electrochimica Acta</i> , 2014 , 121, 315-320	6.7	8
994	Direct electrochemistry of glucose oxidase and a biosensor for glucose based on a glass carbon electrode modified with MoS ₂ nanosheets decorated with gold nanoparticles. 2014 , 181, 1497-1503		134
993	Electrochemical in-vivo sensors using nanomaterials made from carbon species, noble metals, or semiconductors. 2014 , 181, 1471-1484		41
992	A glassy carbon electrode modified with a film composed of cobalt oxide nanoparticles and graphene for electrochemical sensing of H ₂ O ₂ . 2014 , 181, 631-638		44
991	Advances in enzyme-free electrochemical sensors for hydrogen peroxide, glucose, and uric acid. 2014 , 181, 689-705		268
990	Electrodeposition of nickel oxide and platinum nanoparticles on electrochemically reduced graphene oxide film as a nonenzymatic glucose sensor. 2014 , 192, 261-268		170
989	Macroporous flower-like graphene-nanosheet clusters used for electrochemical determination of dopamine. 2014 , 448, 181-185		33
988	An origami electrochemiluminescence immunosensor based on gold/graphene for specific, sensitive point-of-care testing of carcinoembryonic antigen. 2014 , 193, 247-254		42
987	Amperometric Sensing of H ₂ O ₂ using PtTiO ₂ /Reduced Graphene Oxide Nanocomposites. 2014 , 1, 617-624		46
986	A paper disk equipped with graphene/polyaniline/Au nanoparticles/glucose oxidase biocomposite modified screen-printed electrode: toward whole blood glucose determination. 2014 , 56, 77-82		179
985	Degradation of Graphene by Hydrogen Peroxide. 2014 , 31, 745-750		58
984	Synthesis and characterization of carbon nanoparticles and their modified carbon paste electrode for the determination of dopamine. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 720-721, 1-8	4.1	21
983	A simple non-enzymatic hydrogen peroxide sensor using gold nanoparticles-graphene-chitosan modified electrode. 2014 , 195, 165-170		86
982	One-step solvent exfoliation of graphite to produce a highly-sensitive electrochemical sensor for tartrazine. 2014 , 197, 104-108		26
981	Graphene: The cutting edge interaction between chemistry and electrochemistry. 2014 , 56, 13-26		134
980	Fabrication of electrochemical sensor based on green reduction of graphene oxide for an antimigraine drug, rizatriptan benzoate. 2014 , 196, 596-603		23
979	Graphene-based polyaniline nanocomposites: preparation, properties and applications. 2014 , 2, 4491-4509		190
978	In situ one-pot synthesis of graphene-polyaniline nanofiber composite for high-performance electrochemical capacitors. 2014 , 308, 333-340		44

977	Graphene prepared by one-pot solvent exfoliation as a highly sensitive platform for electrochemical sensing. 2014 , 825, 26-33		57
976	Synthesis of graphene/methylene blue/gold nanoparticles composites based on simultaneous green reduction, in situ growth and self-catalysis. 2014 , 49, 4796-4806		17
975	Amperometric cholesterol biosensor based on the direct electrochemistry of cholesterol oxidase and catalase on a graphene/ionic liquid-modified glassy carbon electrode. 2014 , 53, 472-8		103
974	A novel amperometric adenosine triphosphate biosensor by immobilizing graphene/dual-labeled aptamers complex onto poly(o-phenylenediamine) modified electrode. 2014 , 191, 695-702		30
973	Synthesis of ionic liquids coated nanocrystalline zeolite materials and their application in the simultaneous determination of adenine, cytosine, guanine, and thymine. <i>Electrochimica Acta</i> , 2014 , 133, 428-439	6.7	39
972	Titania nanotube-modified screen printed carbon electrodes enhance the sensitivity in the electrochemical detection of proteins. 2014 , 98, 46-52		9
971	Tunable Decoration of Reduced Graphene Oxide with Au Nanoparticles for the Oxygen Reduction Reaction. 2014 , 24, 2764-2771		58
970	Synergetic signal amplification of graphene-Fe ₂ O ₃ hybrid and hexadecyltrimethylammonium bromide as an ultrasensitive detection platform for bisphenol A. <i>Electrochimica Acta</i> , 2014 , 115, 434-439 ^{6,7}		32
969	Fabrication of an Electrochemical Sensor Based on Electroreduced Graphene Oxide for the Determination of Valganciclovir. <i>Journal of the Electrochemical Society</i> , 2014 , 161, B117-B122	3.9	11
968	Lipid-lipid interactions in aminated reduced graphene oxide interface for biosensing application. 2014 , 30, 4192-201		63
967	Simultaneous determination of Cd(II) and Pb(II) using square wave anodic stripping voltammetry at a gold nanoparticle-graphene-cysteine composite modified bismuth film electrode. <i>Electrochimica Acta</i> , 2014 , 115, 471-477	6.7	156
966	Controlled chemistry of tailored graphene nanoribbons for electrochemistry: a rational approach to optimizing molecule detection. 2014 , 4, 132-139		71
965	Highly efficient colorimetric detection of target cancer cells utilizing superior catalytic activity of graphene oxide-magnetic-platinum nanohybrids. 2014 , 6, 1529-36		98
964	Facile synthesis of carbon quantum dots and thin graphene sheets for non-enzymatic sensing of hydrogen peroxide. 2014 , 4, 4998		37
963	Facile synthesis of gold nanohexagons on graphene templates in Raman spectroscopy for biosensing cancer and cancer stem cells. 2014 , 55, 180-6		73
962	Femtosecond laser ablation of highly oriented pyrolytic graphite: a green route for large-scale production of porous graphene and graphene quantum dots. 2014 , 6, 2381-9		117
961	Layer-by-layer construction of caterpillar-like reduced graphene oxide/poly(aniline-co-o-aminophenol)Pd nanofiber on glassy carbon electrode and its application as a bromate sensor. <i>Electrochimica Acta</i> , 2014 , 115, 504-510	6.7	23
960	New insight into the shape-controlled synthesis and microwave shielding properties of iron oxide covered with reduced graphene oxide. 2014 , 4, 62413-62422		21

959	An electrochemical sensor for honokiol based on a glassy carbon electrode modified with MoS ₂ /graphene nanohybrid film. 2014 , 6, 9375-9382		20
958	Graphene and its nanocomposite material based electrochemical sensor platform for dopamine. 2014 , 4, 63296-63323		224
957	Carbon nanotube-bilirubin oxidase bioconjugate as a new biofuel cell label for self-powered immunosensor. <i>Analytical Chemistry</i> , 2014 , 86, 11782-8	7.8	45
956	Sensitive Simultaneous Determination of Hydroquinone and Catechol Based on BCN Graphene and Poly(alizarin red S). <i>Journal of the Electrochemical Society</i> , 2014 , 161, B220-B224	3.9	7
955	Simple approach for the immobilization of horseradish peroxidase on poly-L-histidine modified reduced graphene oxide for amperometric determination of dopamine and H ₂ O ₂ . 2014 , 4, 55867-55876		25
954	Graphene oxide as a nanocarrier for gramicidin (GOGD) for high antibacterial performance. 2014 , 4, 50035-50046		46
953	Electrochemical co-reduction synthesis of Au/ferrocene/graphene nanocomposites and their application in an electrochemical immunosensor of a breast cancer biomarker. 2014 , 6, 9078-9084		17
952	Electrochemical detection of guaiacol in bamboo juice based on the enhancement effect of RGO nanosheets. 2014 , 6, 2729-2735		10
951	Using multi-walled carbon nanotubes to enhance coimmobilization of poly(azure A) and poly(neutral red) for determination of nicotinamide adenine dinucleotide and hydrogen peroxide. 2014 , 4, 45566-45574		10
950	A Current-Voltage Model for Graphene Electrolyte-Gated Field-Effect Transistors. 2014 , 61, 3971-3977		26
949	A metal-catalyst free, flexible and free-standing chitosan/vacuum-stripped graphene/polypyrrole three dimensional electrode interface for high performance dopamine sensing. 2014 , 2, 2478-2482		28
948	Porous conducting polymer and reduced graphene oxide nanocomposites for room temperature gas detection. 2014 , 4, 42546-42553		40
947	Reduced graphene oxide/TiO ₂ based platform for label-free biosensor. 2014 , 4, 60386-60396		23
946	Microwave-assisted synthesis of hemin-graphene/poly(3,4-ethylenedioxythiophene) nanocomposite for a biomimetic hydrogen peroxide biosensor. 2014 , 2, 4324-4330		28
945	Electrochemical sensor for endocrine disruptor bisphenol A based on a glassy carbon electrode modified with silica and nanocomposite prepared from reduced graphene oxide and gold nanoparticles. 2014 , 6, 8604-8612		26
944	A highly sensitive NADH sensor based on a mycelium-like nanocomposite using graphene oxide and multi-walled carbon nanotubes to co-immobilize poly(luminol) and poly(neutral red) hybrid films. 2014 , 139, 3991-8		22
943	Enzymatic Degradation of Oxidized and Reduced Graphene Nanoribbons by Lignin Peroxidase. 2014 , 2, 6354-6362		73
942	Graphene Environmental and Sensor Applications. 2014 , 159-224		3

941	Flexible viologen electrochromic devices with low operational voltages using reduced graphene oxide electrodes. 2014 , 6, 14562-7		82
940	Preparation of N-doped graphene by reduction of graphene oxide with mixed microbial system and its haemocompatibility. 2014 , 6, 4882-8		37
939	Dual harmonic Kelvin probe force microscopy at the graphene-liquid interface. 2014 , 104, 133103		42
938	A Review of Glucose Biosensors Based on Graphene/Metal Oxide Nanomaterials. 2014 , 47, 1821-1834		40
937	Reduced carboxylic graphene/palladium nanoparticles composite modified ultramicroelectrode array and its application in biochemical oxygen demand microsensor. <i>Electrochimica Acta</i> , 2014 , 145, 64-70	6.7	5
936	Glassy carbon electrode modified with a graphene oxide/poly(o-phenylenediamine) composite for the chemical detection of hydrogen peroxide. 2014 , 44, 144-50		9
935	Low-level expression of purine bases in BALB/3T3 cells monitored by ultrasensitive graphene-based glass carbon electrode. 2014 , 467, 40-6		8
934	Gold Nanoparticles- β -Cyclodextrin-Chitosan-Graphene Modified Glassy Carbon Electrode for Ultrasensitive Detection of Dopamine and Uric Acid. <i>Electroanalysis</i> , 2014 , 26, 2057-2064	3	11
933	Electrochemiluminescence acetylcholine biosensor based on biofunctional AMs-AChE-ChO biocomposite and electrodeposited graphene-Au-chitosan nanocomposite. <i>Electrochimica Acta</i> , 2014 , 147, 735-742	6.7	31
932	One-pot hydrothermal synthesis of zirconium dioxide nanoparticles decorated reduced graphene oxide composite as high performance electrochemical sensing and biosensing platform. <i>Electrochimica Acta</i> , 2014 , 143, 196-206	6.7	58
931	A novel molecularly imprinted chitosan-acrylamide, graphene, ferrocene composite cryogel biosensor used to detect microalbumin. 2014 , 139, 6160-7		54
930	A novel electrochemiluminescence choline biosensor based on biofunctional AMs-ChO biocomposite. 2014 , 204, 429-436		11
929	In situ polymerization deposition of porous conducting polymer on reduced graphene oxide for gas sensor. 2014 , 6, 13807-14		116
928	Synthesis of zinc oxide nanoparticles on graphene-carbon nanotube hybrid for glucose biosensor applications. 2014 , 62, 127-33		174
927	Easy processing laser reduced graphene: A green and fast sensing platform for hydroquinone and catechol simultaneous determination. <i>Electrochimica Acta</i> , 2014 , 138, 48-55	6.7	44
926	Molecular functionalization of graphite surfaces: basal plane versus step edge electrochemical activity. 2014 , 136, 11444-51		61
925	Fluorescent sensors using DNA-functionalized graphene oxide. 2014 , 406, 6885-902		102
924	Fabrication of SDBS intercalated-reduced graphene oxide/polypyrrole nanocomposites for supercapacitors. 2014 , 196, 1-7		21

923	The study of adenine and guanine electrochemical oxidation using electrodes modified with graphene-platinum nanoparticles composites. <i>Electrochimica Acta</i> , 2014 , 139, 386-393	6.7	19
922	Supersensitive electrochemical sensor for the fast determination of rutin in pharmaceuticals and biological samples based on poly(diallyldimethylammonium chloride)-functionalized graphene. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 732, 17-24	4.1	39
921	Graphene produced by electrochemical exfoliation. 2014 , 81-98		5
920	In Situ Fabrication of Three-Dimensional Graphene Films on Gold Substrates with Controllable Pore Structures for High-Performance Electrochemical Sensing. 2014 , 24, 7032-7041		49
919	Coaxial electrospinning route to prepare Au-loading SnO ₂ hollow microtubes for non-enzymatic detection of H ₂ O ₂ . <i>Electrochimica Acta</i> , 2014 , 141, 161-166	6.7	36
918	Functional nanomaterials for phototherapies of cancer. 2014 , 114, 10869-939		1771
917	One-pot sonochemical synthesis of reduced graphene oxide uniformly decorated with ultrafine silver nanoparticles for non-enzymatic detection of H ₂ O ₂ and optical detection of mercury ions. 2014 , 4, 36401-36411		66
916	Simultaneous determination of purine and pyrimidine bases in DNA using poly(3,4-ethylenedioxythiophene)/graphene composite film. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 735, 51-56	4.1	16
915	A graphene oxide/conducting polymer nanocomposite for electrochemical dopamine detection: origin of improved sensitivity and specificity. 2014 , 2, 5209-5219		62
914	A three-dimensional interpenetrating electrode of reduced graphene oxide for selective detection of dopamine. 2014 , 139, 4525-31		55
913	Insights into electrocatalytic activity of epitaxial graphene on SiC from cyclic voltammetry and ac impedance spectroscopy. 2014 , 18, 2555-2562		9
912	Morphology change and detachment of lipid bilayers from the mica substrate driven by graphene oxide sheets. 2014 , 30, 4678-83		29
911	Graphene platform used for electrochemically discriminating DNA triplex. 2014 , 6, 3513-9		11
910	Highly sensitive and selective sensing platform based on π - π interaction between tricyclic aromatic hydrocarbons with thionine-graphene composite. 2014 , 826, 21-7		23
909	Synthesis and antibacterial activities of graphene decorated with stannous dioxide. 2014 , 4, 3708-3717		21
908	An electrocatalytic oxidation and voltammetric method using a chemically reduced graphene oxide film for the determination of caffeic acid. 2014 , 423, 33-40		42
907	Nanotechnology for Water Treatment and Purification. 2014 ,		20
906	Tuning the reduction extent of electrochemically reduced graphene oxide electrode film to enhance its detection limit for voltammetric analysis. <i>Electrochimica Acta</i> , 2014 , 139, 232-237	6.7	32

905	A novel and green CTAB-functionalized graphene nanosheets electrochemical sensor for Sudan I determination. 2014 , 203, 759-765		37
904	Graphene oxide-based biosensor for food toxin detection. 2014 , 174, 960-70		51
903	Chemical sensing of neurotransmitters. 2014 , 43, 4684-713		143
902	Electrical Transducers. 2014 , 169-232		10
901	One-step electropolymerization of xanthurenic acid-graphene film prepared by a pulse potentiostatic method for simultaneous detection of guanine and adenine. 2014 , 5, 2214		8
900	A Facile One-Step Method for the Synthesis of Reduced Graphene Oxide Nanocomposites by NADH as Reducing Agent and Its Application in NADH Sensing. <i>Electroanalysis</i> , 2014 , 26, 171-177	3	27
899	Voltammetric Behavior of Guanine at ERGO/GC Electrode and Its Application in Cell Counting. <i>Journal of the Electrochemical Society</i> , 2014 , 161, G21-G25	3.9	3
898	Synthesis of Biocompatible Gelatin-functionalised Graphene Nanosheets For Drug Delivery Applications. 2014 , 67, 1532		10
897	An ITO bipolar array for electrochemiluminescence imaging of H ₂ O ₂ . 2014 , 49, 75-78		23
896	The electrocatalytic oxidation of glucose on the bimetallic Au-Ag particles-modified reduced graphene oxide electrodes in alkaline solutions. <i>Electrochimica Acta</i> , 2014 , 133, 335-346	6.7	47
895	Detection of real sample DNA at a cadmium sulfide-chitosan/gelatin modified electrode. 2014 , 113, 85-91		12
894	Electrochemistry of graphene and related materials. 2014 , 114, 7150-88		802
893	Investigation of the optimal weight contents of reduced graphene oxide-gold nanoparticles composites and theirs application in electrochemical biosensors. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 720-721, 84-91	4.1	15
892	Sensitive electrochemical determination of trace cadmium on a stannum film/poly(p-aminobenzene sulfonic acid)/electrochemically reduced graphene composite modified electrode. <i>Electrochimica Acta</i> , 2014 , 120, 140-146	6.7	55
891	Multi-walled carbon nanotubes/graphene nanoribbons hybrid materials with superior electrochemical performance. 2014 , 39, 26-29		21
890	The Enhanced Electrochemiluminescence of Luminol by Resonance Energy Transfer with Solid-phase CdTe Quantum Dots. <i>Electrochimica Acta</i> , 2014 , 135, 187-191	6.7	9
889	Eco-synthesis of graphene and its use in dihydronicotinamide adenine dinucleotide sensing. 2014 , 460, 29-35		13
888	Pt-CuO nanoparticles decorated reduced graphene oxide for the fabrication of highly sensitive non-enzymatic disposable glucose sensor. 2014 , 195, 197-205		105

887	A facial electrochemical approach to determinate bisphenol A based on graphene-hypercrosslinked resin MN202 composite. 2014 , 158, 81-7		28
886	A general strategy to prepare homogeneous and reagentless GO/lucigenin&enzyme biosensors for detection of small biomolecules. 2014 , 57, 65-70		17
885	Fuzzy logic sensing of G-quadruplex DNA and its cleavage reagents based on reduced graphene oxide. 2014 , 57, 117-24		14
884	Facilitation of high-rate NADH electrocatalysis using electrochemically activated carbon materials. 2014 , 6, 6687-96		20
883	Electrochemically synthesized partially reduced graphene oxide modified glassy carbon electrode for individual and simultaneous voltammetric determination of ascorbic acid, dopamine and uric acid. 2014 , 6, 5322-5330		33
882	Is graphene worth using in biofuel cells?. <i>Electrochimica Acta</i> , 2014 , 136, 340-354	6.7	79
881	Nanomaterial-based biosensors for food toxin detection. 2014 , 174, 880-96		73
880	Electrochemical performance of electrospun free-standing nitrogen-doped carbon nanofibers and their application for glucose biosensing. 2014 , 6, 6275-80		48
879	Nonenzymatic amperometric determination of hydrogen peroxide by graphene and gold nanorods nanocomposite modified electrode. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 727, 27-33	4.1	37
878	Chemically derived graphene. 2014 , 50-80		6
877	Gr-Pt hybrid NP modified GCPE as label and indicator free electrochemical genosensor platform. 2014 , 129, 523-8		28
876	Self-assembled Thiolated Calix[n]arene (n=4, 6, 8) Films on Gold Electrodes and Application for Electrochemical Determination Dopamine. <i>Electrochimica Acta</i> , 2014 , 136, 301-309	6.7	35
875	Mild and novel electrochemical preparation of β -cyclodextrin/graphene nanocomposite film for super-sensitive sensing of quercetin. 2014 , 57, 239-44		59
874	Progress of nanoscience in China. 2014 , 9, 257-288		19
873	Energetic Graphene-Based Electrochemical Analytical Devices in Nucleic Acid, Protein and Cancer Diagnostics and Detection. <i>Electroanalysis</i> , 2014 , 26, 14-29	3	23
872	Fabrication of graphene coated carbon fiber microelectrode for highly sensitive detection application. 2014 , 30, 903-9		12
871	An in vitro evaluation of graphene oxide reduced by Ganoderma spp. in human breast cancer cells (MDA-MB-231). 2014 , 9, 1783-97		57
870	Photonic Properties of Graphene Device. 2014 , 291-308		

869	ZnO and Graphene Microelectrode Applications in Biosensing. 2014 , 1-35		
868	Stochastic Events in Nanoelectrochemical Systems. 2015 , 256-307		
867	Recent Investigations of Single Living Cells with Ultramicroelectrodes. 2015 , 454-483		2
866	Graphene/Conjugated Polymer Nanocomposites for Optoelectronic and Biological Applications. 2015 , 229-279		1
865	Electrochemical Treatment of Glassy Carbon for Label-Free Detection of DNA Bases and Neurotransmitters. <i>Electroanalysis</i> , 2015 , 27, 2581-2587	3	0
864	Electrocatalytic Interface Based on Novel Carbon Nanomaterials for Advanced Electrochemical Sensors. 2015 , 7, 2744-2764		51
863	Simple and Sensitive Fluorescence Assay of Restriction Endonuclease on Graphene Oxide. 2015 , 36, 2185-2189		
862	Graphene-Based Nanohybrids for Advanced Electrochemical Sensing. <i>Electroanalysis</i> , 2015 , 27, 2098-2115		25
861	Electrochemical and Spectroelectrochemical Characterization of Graphene Electrodes Derived from Solution-Based Exfoliation. <i>Electroanalysis</i> , 2015 , 27, 1026-1034	3	10
860	Electrodeposition of reduced graphene oxide on a Pt electrode and its use as amperometric sensor in microchip electrophoresis. 2015 , 36, 1886-93		21
859	Large-Scale Nanoelectrode Arrays to Monitor the Dopaminergic Differentiation of Human Neural Stem Cells. 2015 , 27, 6356-62		46
858	Two-Dimensional Materials for Sensing: Graphene and Beyond. 2015 , 4, 651-687		232
857	Identification of Chinese Herbs Using a Sequencing-Free Nanostructured Electrochemical DNA Biosensor. 2015 , 15, 29882-92		8
856	Nanoplatfom Based on Vertical Nanographene. 2015 ,		1
855	An amperometric sensor for detection of tryptophan based on a pristine multi-walled carbon nanotube/graphene oxide hybrid. 2015 , 140, 5295-300		15
854	Black hemostatic sponge based on facile prepared cross-linked graphene. 2015 , 132, 27-33		57
853	Graphene Oxide Selectively Enhances Thermostability of Trypsin. 2015 , 7, 12270-7		30
852	Electrochemical behavior of daphnetin and its sensitive determination based on electrochemically reduced graphene oxide modified electrode. <i>Journal of Electroanalytical Chemistry</i> , 2015 , 749, 68-74	4.1	15

851	Fluorescent probes for dual and multi analyte detection. 2015 , 71, 4679-4706		41
850	Carbon Nanomaterials for Biological Imaging and Nanomedicinal Therapy. 2015 , 115, 10816-906		902
849	Spontaneous Deposition of Prussian Blue on Reduced Graphene Oxide [Gold Nanoparticles Composites for the Fabrication of Electrochemical Biosensors. <i>Electroanalysis</i> , 2015 , 27, 74-83	3	14
848	Graphene as a signal amplifier for preparation of ultrasensitive electrochemical biosensors. 2015 , 69, 112-133		16
847	Rhodium nanoparticle-mesoporous silicon nanowire nanohybrids for hydrogen peroxide detection with high selectivity. 2015 , 5, 7792		13
846	Comparison of performances of bioanodes modified with graphene oxide and graphene-platinum hybrid nanoparticles. 2015 , 57, 31-34		23
845	A highly sensitive electrochemical OP biosensor based on electrodeposition of AuPd bimetallic nanoparticles onto a functionalized graphene modified glassy carbon electrode. 2015 , 7, 3903-3911		17
844	Graphene and graphene-like 2D materials for optical biosensing and bioimaging: a review. 2015 , 2, 032004		106
843	Graphene-based biosensors: methods, analysis and future perspectives. 2015 , 9, 434-445		28
842	Graphene Oxide: A Fertile Nanosheet for Various Applications. 2015 , 84, 121012		19
841	Preparation and characterisation of graphene. <i>Materials Research Innovations</i> , 2015 , 19, S9-344-S9-350	1.9	31
840	Trilayered Film with Excellent Tribological Performance: A Combination of Graphene Oxide and Perfluoropolyethers. 2015 , 60, 1		8
839	Exponential amplification of DNA with very low background using graphene oxide and single-stranded binding protein to suppress non-specific amplification. 2015 , 182, 1095-1101		18
838	Graphene oxide-BaGdF5 nanocomposites for multi-modal imaging and photothermal therapy. <i>Biomaterials</i> , 2015 , 42, 66-77	15.6	125
837	Ultrafast and directional diffusion of lithium in phosphorene for high-performance lithium-ion battery. 2015 , 15, 1691-7		512
836	Reductant- and stabilizer-free synthesis of graphene-polyaniline aqueous colloids for potential waterborne conductive coating application. 2015 , 5, 20186-20192		11
835	Human flavin-containing monooxygenase 3 on graphene oxide for drug metabolism screening. <i>Analytical Chemistry</i> , 2015 , 87, 2974-80	7.8	19
834	Mussel-inspired biopolymer modified 3D graphene foam for enzyme immobilization and high performance biosensor. <i>Electrochimica Acta</i> , 2015 , 161, 17-22	6.7	33

833	Synthesis and physicochemical properties of graphene/ZrO ₂ composite aerogels. 2015 , 5, 11738-11744		13
832	A sensitive impedimetric DNA biosensor for the determination of the HIV gene based on electrochemically reduced graphene oxide. 2015 , 7, 2554-2562		48
831	Cyclodextrin functionalized graphene-gold nanoparticle hybrids with strong supramolecular capability for electrochemical thrombin aptasensor. 2015 , 68, 429-436		52
830	Evaluation of Electrochemically Reduced Gold Nanoparticle-Graphene Nanocomposites for the Determination of Dopamine. 2015 , 48, 1437-1453		10
829	Graphene versus MoS ₂ : A short review. 2015 , 10, 287-302		137
828	Graphene for Detection of Adenosine Triphosphate, Nicotinamide Adenine Dinucleotide, Other Molecules, Gas, and Ions. 2015 , 81-102		
827	Nanomaterials-based electrochemical sensors for nitric oxide. 2015 , 182, 455-467		39
826	A New Amperometric Benzaldehyde Biosensor Based on Aldehyde Oxidase Immobilized on Fe ₃ O ₄ -GrapheneOxide/Polyvinylpyrrolidone/Polyaniline Nanocomposite. <i>Electroanalysis</i> , 2015 , 27, 242-252		9
825	Boron-doped graphene as high-performance electrocatalyst for the simultaneously electrochemical determination of hydroquinone and catechol. <i>Electrochimica Acta</i> , 2015 , 156, 228-234	6.7	77
824	Applications of graphene and related nanomaterials in analytical chemistry. 2015 , 39, 2380-2395		59
823	Electrochemically Reduced Carboxyl Graphene Modified Electrode for Simultaneous Determination of Guanine and Adenine. 2015 , 48, 1465-1480		5
822	An Overview of the Latest Graphene-Based Sensors for Glucose Detection: the Effects of Graphene Defects. <i>Electroanalysis</i> , 2015 , 27, 16-31	3	74
821	Electrochemical immunosensor for botulinum neurotoxin type-E using covalently ordered graphene nanosheets modified electrodes and gold nanoparticles-enzyme conjugate. 2015 , 69, 249-56		60
820	A label-free electrochemical strategy for highly sensitive methyltransferase activity assays. <i>Chemical Communications</i> , 2015 , 51, 5081-4	5.8	20
819	Voltammetric determination of total dissolved iron in coastal waters using a glassy carbon electrode modified with reduced graphene oxide, Methylene Blue and gold nanoparticles. 2015 , 182, 805-813		19
818	Application and Uses of Graphene. 2015 , 1-38		13
817	A Sensitive Amperometric Sensor for the Determination of Sophocarpine Based on Vertically Oriented Graphene Nanosheets Modified Glassy Carbon Electrode. <i>Journal of the Electrochemical Society</i> , 2015 , 162, H352-H356	3.9	6
816	Preparation of gold nanoparticles/single-walled carbon nanotubes/polyaniline composite-coated electrode developed for DNA detection. 2015 , 72, 3135-3146		11

815	Quasi Core/Shell Lead Sulfide/Graphene Quantum Dots for Bulk Heterojunction Solar Cells. 2015 , 119, 18886-18895		45
814	Fiber optic polarization beam splitter using a reduced graphene oxide-based interlayer. 2015 , 46, 324-328		11
813	Highly Sensitive Electrochemical Biosensor for Evaluation of Oxidative Stress Based on the Nanointerface of Graphene Nanocomposites Blended with Gold, Fe ₃ O ₄ , and Platinum Nanoparticles. 2015 , 7, 18441-9		71
812	Functionalized solid electrodes for electrochemical biosensing of purine nucleobases and their analogues: a review. 2015 , 15, 1564-600		36
811	Graphene oxide wrapped individual silver nanocomposites with improved stability for surface-enhanced Raman scattering. 2015 , 5, 55801-55807		17
810	The graphene/nucleic acid nanobiointerface. 2015 , 44, 6954-80		153
809	The application of L-tryptophan functionalized graphene-supported platinum nanoparticles for chiral recognition of DOPA enantiomers. 2015 , 39, 6919-6924		17
808	Direct electrocatalytic and simultaneous determination of purine and pyrimidine DNA bases using novel mesoporous carbon fibers as electrocatalyst. <i>Journal of Electroanalytical Chemistry</i> , 2015 , 750, 65-73	4.1	24
807	Tailoring the interface in graphene/thermoset polymer composites: A critical review. 2015 , 70, A17-A34		67
806	A Facile One-Pot Synthesis of Au/Cu ₂ O Nanocomposites for Nonenzymatic Detection of Hydrogen Peroxide. 2015 , 10, 935		18
805	Investigations on the performance of poly(o-anisidine)/graphene nanocomposites for the electrochemical detection of NADH. 2015 , 55, 579-91		32
804	Nanoporous cobalt oxide nanowires for non-enzymatic electrochemical glucose detection. 2015 , 220, 888-894		85
803	Ultra-Selective Dopamine Detection in an Excess of Ascorbic Acid and Uric Acid Using Pristine Palladium Nanoparticles Decorated Graphene Modified Glassy Carbon Electrode. <i>Journal of the Electrochemical Society</i> , 2015 , 162, H651-H660	3.9	12
802	Exploring the effects of the size of reduced graphene oxide nanosheets for Pt-catalyzed electrode reactions. 2015 , 7, 9438-42		29
801	Chemically Modified Graphene and Sulfonic Acid-Doped Polyaniline Nanofiber Composites: Preparation Routes, Characterization, and Comparison of Direct DNA Detection. 2015 , 119, 9076-9084		13
800	Electrochemical Sensors Using Two-Dimensional Layered Nanomaterials. <i>Electroanalysis</i> , 2015 , 27, 1062-1072		36
799	Electrochemical sensing of bisphenol A by graphene-1-butyl-3-methylimidazolium hexafluorophosphate modified electrode. 2015 , 141, 41-6		52
798	A Rapid, Green and Controllable Strategy to Fabricate Electrodeposition of Reduced Graphene Oxide Film as Sensing Materials for Determination of Taxifolin. 2015 , 10, 1550044		7

797	Non-enzymatic glucose sensing by enhanced Raman spectroscopy on flexible 'as-grown' CVD graphene. 2015 , 140, 3935-41		9
796	Functionalization of Graphene Oxide and its Biomedical Applications. 2015 , 40, 291-315		124
795	Preparation of graphene/nile blue nanocomposite: Application for oxygen reduction reaction and biosensing. <i>Electrochimica Acta</i> , 2015 , 173, 354-363	6.7	15
794	Label-free aptamer biosensor for thrombin detection based on functionalized graphene nanocomposites. 2015 , 141, 247-52		58
793	Edge promoted ultrasensitive electrochemical detection of organic bio-molecules on epitaxial graphene nanowalls. 2015 , 70, 137-44		28
792	The Application of Assembled Inorganic and Organic Hybrid Nanoarchitecture of Prussian Blue/Polymers/Graphene in Glucose Biosensing. 2015 , 25, 275-281		9
791	Hydrothermal synthesis of nitrogen doped graphene nanosheets from carbon nanosheets with enhanced electrocatalytic properties. 2015 , 5, 39705-39713		10
790	A graphene-based electrochemical sensor for sensitive determination of cyanazine. 2015 , 70, 384-391		9
789	Reduced graphene oxide in the construction of solid-state bromide-selective electrode. 2015 , 70, 378-383		4
788	Doped graphene: synthesis, properties and bioanalysis. 2015 , 5, 49521-49533		42
787	Enhanced-oxidation and highly-sensitive detection of acetaminophen, guanine and adenine using NMP-exfoliated graphene nanosheets-modified electrode. <i>Electrochimica Acta</i> , 2015 , 166, 285-292	6.7	33
786	Environmental applications of graphene-based nanomaterials. 2015 , 44, 5861-96		1022
785	Nanobiosensors and Nanobioanalyses. 2015 ,		7
784	Simultaneous detection of metronidazole and chloramphenicol by differential pulse stripping voltammetry using a silver nanoparticles/sulfonate functionalized graphene modified glassy carbon electrode. <i>Electrochimica Acta</i> , 2015 , 171, 105-113	6.7	65
783	Recent advances in electrochemical biosensing schemes using graphene and graphene-based nanocomposites. 2015 , 84, 519-550		167
782	Graphene, carbon nanotubes, zinc oxide and gold as elite nanomaterials for fabrication of biosensors for healthcare. 2015 , 70, 498-503		278
781	Electrochemical and spectroscopic studies of ssDNA damage induced by hydrogen peroxide using graphene based nanomaterials. 2015 , 138, 209-217		6
780	Electrocatalytic oxidation of NADH at low overpotential using nanoporous poly(3,4)-ethylenedioxythiophene modified glassy carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , 2015 , 746, 75-81	4.1	32

779	Graphene and graphitic derivative filled polymer composites as potential sensors. 2015 , 17, 3954-81		88
778	Comparative Study of Potential Applications of Graphene, MoS ₂ , and Other Two-Dimensional Materials in Energy Devices, Sensors, and Related Areas. 2015 , 7, 7809-32		311
777	An ultrasensitive electrochemical immunosensor for the detection of CD146 based on TiO ₂ colloidal sphere laden Au/Pd nanoparticles. 2015 , 140, 3557-64		11
776	Functional graphene-gold nanoparticle hybrid system for enhanced electrochemical biosensing of free cholesterol. 2015 , 7, 3993-4002		17
775	Tuning Surface Charge and Morphology for the Efficient Detection of Dopamine under the Interferences of Uric Acid, Ascorbic Acid, and Protein Adsorption. 2015 , 7, 21931-8		47
774	In situ surface electrochemical co-reduction route towards controllable construction of AuNPs/ERGO electrochemical sensing platform for simultaneous determination of BHA and TBHQ. <i>Electrochimica Acta</i> , 2015 , 182, 847-855	6.7	27
773	Enhanced amperometric response of a glucose oxidase and horseradish peroxidase based bienzyme glucose biosensor modified with a film of polymerized toluidine blue containing reduced graphene oxide. 2015 , 182, 1949-1956		22
772	Preparation of zinc oxide nanoparticle-reduced graphene oxide-gold nanoparticle hybrids for detection of NO ₂ . 2015 , 5, 91760-91765		37
771	Nb ₂ O ₅ nanoparticles supported on reduced graphene oxide sheets as electrocatalyst for the H ₂ O ₂ electrogeneration. 2015 , 332, 51-61		45
770	Two-Electron Oxidation of Dopamine Controlled by Surface Modification of Few-Layer Graphene. <i>Electrochimica Acta</i> , 2015 , 180, 43-52	6.7	3
769	Rapidly accomplished femtomole soluble CD40 ligand detection in human serum: a "green" homobifunctional agent coupled with reduced graphene oxide-tetraethylene pentamine as platform. 2015 , 5, 88392-88400		5
768	Electrochemical Sensors Based on Nanostructured Materials. 2015 , 1-15		1
767	Hemoglobin-graphene modified carbon fiber microelectrode for direct electrochemistry and electrochemical H ₂ O ₂ sensing. <i>Electrochimica Acta</i> , 2015 , 185, 142-147	6.7	41
766	Enhancement of electrode performance by a simple casting method using sonochemically exfoliated graphene. <i>Analytical Chemistry</i> , 2015 , 87, 9273-9	7.8	11
765	PtTeO ₂ /reduced graphene oxide nanocomposite for the electrooxidation of formic acid and formaldehyde. 2015 , 5, 73639-73650		25
764	A three dimensional Pt nanodendrite/graphene/MnO nanoflower modified electrode for the sensitive and selective detection of dopamine. 2015 , 3, 7440-7448		66
763	Peptide-Graphene Interactions Enhance the Mechanical Properties of Silk Fibroin. 2015 , 7, 21787-96		55
762	Cyclic voltammetry simulations with cellular automata. 2015 , 11, 269-278		11

761	Biocomposite based on reduced graphene oxide film modified with phenothiazone and flavin adenine dinucleotide-dependent glucose dehydrogenase for glucose sensing and biofuel cell applications. <i>Analytical Chemistry</i> , 2015 , 87, 9567-71	7.8	37
760	A novel electrochemical DNA-sensing nanoplatform based on supramolecular ionic liquids grafted on nitrogen-doped graphene aerogels. 2015 , 45, 1289-1298		6
759	Determination of Rutin by a Graphene-Modified Glassy Carbon Electrode. 2015 , 48, 894-906		14
758	A new electrochemical aptasensor based on electrocatalytic property of graphene toward ascorbic acid oxidation. 2015 , 134, 699-704		13
757	MnO ₂ /Graphene Nanocomposites for Nonenzymatic Electrochemical Detection of Hydrogen Peroxide. <i>Electroanalysis</i> , 2015 , 27, 353-359	3	46
756	Graphene for DNA Biosensing. 2015 , 11-33		2
755	Facile synthesis of graphene oxide in a Couette-Taylor flow reactor. 2015 , 83, 217-223		32
754	Ordered assemblies of silver nanoparticles on carbon nitride sheets and their application in the non-enzymatic sensing of hydrogen peroxide and glucose. 2015 , 3, 1289-1300		44
753	Impact of distributions and mixtures on the charge transfer properties of graphene nanoflakes. 2015 , 7, 1864-71		12
752	Synthesis of Au/graphene oxide composites for selective and sensitive electrochemical detection of ascorbic acid. 2014 , 4, 7515		63
751	Three-dimensional nitrogen-doped graphene as an ultrasensitive electrochemical sensor for the detection of dopamine. 2015 , 7, 2427-32		140
750	Graphene for Glucose, Dopamine, Ascorbic Acid, and Uric Acid Detection. 2015 , 57-79		
749	Protein conjugated carboxylated gold@reduced graphene oxide for aflatoxin B1 detection. 2015 , 5, 5406-5414		44
748	A rapid, green and controllable method to fabricate the electrodeposition of a film of reduced graphene oxide as sensing materials for the determination of matrine. <i>Journal of Electroanalytical Chemistry</i> , 2015 , 738, 138-144	4.1	3
747	One-step hydrothermal green synthesis of silver nanoparticle-carbon nanotube reduced-graphene oxide composite and its application as hydrogen peroxide sensor. 2015 , 208, 389-398		145
746	Biocompatible Graphene for Bioanalytical Applications. 2015 ,		8
745	Direct electrochemistry of cholesterol oxidase immobilized on chitosan-graphene and cholesterol sensing. 2015 , 208, 505-511		62
744	Graphene Oxide: Physics and Applications. 2015 ,		30

743	Label electrochemical immunosensor for prostate-specific antigen based on graphene and silver hybridized mesoporous silica. 2015 , 469, 76-82		39
742	A sensitive voltammetric sensor for taxifolin based on graphene nanosheets with certain orientation modified glassy carbon electrode. 2015 , 208, 188-194		19
741	Monodisperse AuM (M=Pt, Rh, Pt) bimetallic nanocrystals for enhanced electrochemical detection of H ₂ O ₂ . 2015 , 207, 404-412		37
740	Synthesis of short graphene oxide nanoribbons for improved biomarker detection of Parkinson's disease. 2015 , 67, 327-33		22
739	Sensitive Detection of Acetaminophen with Graphene-Based Electrochemical Sensor. <i>Electrochimica Acta</i> , 2015 , 162, 198-204	6.7	89
738	An electrochemical immunosensor for ultrasensitive detection of carbohydrate antigen 199 based on Au@Cu(x)OS yolk-shell nanostructures with porous shells as labels. 2015 , 63, 39-46		49
737	Synthesis and utilisation of graphene for fabrication of electrochemical sensors. 2015 , 131, 424-43		141
736	Molecularly engineered graphene surfaces for sensing applications: A review. 2015 , 859, 1-19		169
735	Nanostructured photoelectrochemical biosensor for highly sensitive detection of organophosphorous pesticides. 2015 , 64, 1-5		66
734	Electrochemical genosensor based on graphene oxide modified iron oxide-chitosan hybrid nanocomposite for pathogen detection. 2015 , 206, 276-283		78
733	Electrochemical Determination of Food Preservative Nitrite with Gold Nanoparticles/p-Aminothiophenol-Modified Gold Electrode. 2016 , 17,		31
732	Electrocatalytic Activities of Graphene/Nile Blue Nanocomposite Toward Determination of Hydrogen Peroxide and Nitrite Ion. <i>Electroanalysis</i> , 2016 , 28, 1957-1969	3	10
731	Highly-sensitive electrocatalytic determination for toxic phenols based on coupled cMWCNT/cyclodextrin edge-functionalized graphene composite. 2016 , 318, 99-108		39
730	Fabrication of Coaxial Wet-Spun Graphene-Chitosan Biofibers. 2016 , 18, 284-293		32
729	Ground and excited state interactions of metalloporphyrin PtTMPyP4 with polynucleotides [poly(dG-dC)] ₂ and [poly(dA-dT)] ₂ . 2016 , 15, 980-7		3
728	Sensor Properties of Pristine and Functionalized Carbon Nanohorns. <i>Electroanalysis</i> , 2016 , 28, 2489-2499,		16
727	Facile synthesis of Au-graphene nanocomposite for the selective determination of dopamine. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 776, 66-73	4.1	14
726	Electrochemical sensors and biosensors for determination of catecholamine neurotransmitters: A review. 2016 , 160, 653-679		105

725	A hybrid system with highly enhanced graphene SERS for rapid and tag-free tumor cells detection. 2016 , 6, 25134	37
724	Graphene-Based Materials in Biosensing, Bioimaging, and Therapeutics. 2016 , 35-61	3
723	Plasma engineering of graphene. 2016 , 3, 021301	93
722	Concurrent Formation of Carbon-Carbon Bonds and Functionalized Graphene by Oxidative Carbon-Hydrogen Coupling Reaction. 2016 , 6, 25824	37
721	An Easily Fabricated Electrochemical Sensor Based on a Graphene-Modified Glassy Carbon Electrode for Determination of Octopamine and Tyramine. 2016 , 16,	19
720	Preparation of ultra-thin hexagonal boron nitride nanoplates for cancer cell imaging and neurotransmitter sensing. <i>Chemical Communications</i> , 2016 , 52, 6146-9	5.8 23
719	Graphene embedded surface plasmon resonance based sensor prediction model. 2016 , 48, 1	5
718	Increased electrocatalyzed performance through hairpin oligonucleotide aptamer-functionalized gold nanorods labels and graphene-streptavidin nanomatrix: Highly selective and sensitive electrochemical biosensor of carcinoembryonic antigen. 2016 , 83, 142-8	59
717	Preparation of high quality graphene using high gravity technology. 2016 , 106, 59-66	10
716	The morphology, structure and electrocatalytic ability of graphene prepared with different drying methods. 2016 , 6, 28005-28014	8
715	Polyaniline/Graphene nanocomposite coatings on copper: Electropolymerization, characterization, and evaluation of corrosion protection performance. 2016 , 217, 220-230	82
714	Deciphering the quenching mechanism of 2D MnO ₂ nanosheets towards Au nanocluster fluorescence to design effective glutathione biosensors. 2016 , 8, 3935-3940	45
713	Nitrogen and Sulfur Codoped Reduced Graphene Oxide as a General Platform for Rapid and Sensitive Fluorescent Detection of Biological Species. 2016 , 8, 11255-61	37
712	Electrochemical characterization of mesoporous nanographite films. 2016 , 105, 96-102	8
711	Adsorption of amino acids on boron and/or nitrogen doped functionalized graphene: A Density Functional Study. 2016 , 1086, 45-51	27
710	Colorimetric Thermometer from Graphene Oxide Platform Integrated with Red, Green, and Blue Emitting, Responsive Block Copolymers. 2016 , 28, 3446-3453	40
709	Simultaneous determination of guanine, adenine, thymine and cytosine with a simple electrochemical method. 2016 , 20, 2223-2230	19
708	Real-time amperometric monitoring of cellular hydrogen peroxide based on electrodeposited reduced graphene oxide incorporating adsorption of electroactive methylene blue hybrid composites. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 780, 60-67	4.1 15

707	Biocompatible ZrO ₂ - reduced graphene oxide immobilized AChE biosensor for chlorpyrifos detection. 2016 , 111, 312-320		58
706	Calixarene-functionalized graphene oxide composites fixed on glassy carbon electrodes for electrochemical detection. 2016 , 6, 91910-91920		7
705	Graphene Preparation by Phenylmagnesium Bromide and Its Excellent Electrical Conductivity Performance in Graphene/Poly(p-phenylene sulfide) Composites. 2016 , 55, 10860-10867		4
704	MWCNT Based Non-Enzymatic H ₂ O ₂ Sensor: Influence of Amine Functionalization on the Electrochemical H ₂ O ₂ Sensing. <i>Journal of the Electrochemical Society</i> , 2016 , 163, B627-B632	3.9	12
703	Comparison of Graphene Oxide and Reduced Graphene Oxide for DNA Adsorption and Sensing. 2016 , 32, 10776-10783		101
702	Two-dimensional SiS as a potential anode material for lithium-based batteries: A first-principles study. 2016 , 331, 391-399		34
701	Synthesis and shielding properties of PVP-stabilized-AgNPs-based graphene nanohybrid in the Ku band. 2016 , 221, 86-94		17
700	Preparation of flower-like Pt nanoparticles decorated chitosan-grafted graphene oxide and its electrocatalysis of hydrazine. 2016 , 236, 192-200		41
699	Doped graphenes as anodes with large capacity for lithium-ion batteries. 2016 , 4, 13407-13413		47
698	Could Borophene Be Used as a Promising Anode Material for High-Performance Lithium Ion Battery?. 2016 , 8, 22175-81		103
697	Enhanced adsorption and photodegradation of phenol in aqueous suspensions of titania/graphene oxide composite catalysts. 2016 , 67, 338-345		49
696	High-Performance Hydrazine Sensor Based on Graphene Nano Platelets Supported Metal Nanoparticles. <i>Electroanalysis</i> , 2016 , 28, 126-132	3	13
695	Nebulized spray pyrolysis: a new method for synthesis of graphene film and their characteristics. 2016 , 307, 65-72		11
694	Immobilization-free DNA-based homogeneous electrochemical biosensors. 2016 , 85, 17-32		34
693	Graphene Thin Films for Unusual Format Electronics. 2016 , 133-164		
692	Synthetic methods and potential applications of transition metal dichalcogenide/graphene nanocomposites. 2016 , 326, 86-110		34
691	Controllable graphene oxide mediated efficient electron transfer pathways across self-assembly monolayers: A new class of graphene based electrodes. <i>Electrochimica Acta</i> , 2016 , 210, 539-547	6.7	4
690	Single layer of graphene/Prussian blue nano-grid as the low-potential biosensors with high electrocatalysis. <i>Electrochimica Acta</i> , 2016 , 217, 210-217	6.7	13

- 689 Electronic Structures and Li-Diffusion Properties of Group IV \bar{V} Layered Materials: Hexagonal Germanium Phosphide and Germanium Arsenide. **2016**, 120, 23842-23850 31
- 688 Reduction and structural evolution of graphene oxide sheets under hydrothermal treatment. **2016**, 380, 3128-3132 38
- 687 Preparation of graphene/Nile blue nanostructure on glassy carbon electrode: Decoration with platinum nanoparticles and application for electro-oxidation of methanol. **2016**, 41, 13459-13468 11
- 686 Fabrication Considerations for Graphene Devices. **2016**, 37-48
- 685 Synthesis and Application of Graphene Nanoribbons. **2016**, 65-76
- 684 Electrophoretic Deposition of Graphene-Based Materials and Their Energy-Related Applications. **2016**, 191-204 1
- 683 Biosensing applications of titanium dioxide coated graphene modified disposable electrodes. **2016**, 160, 325-331 25
- 682 Graphene Oxide-Gallic Acid Nanodelivery System for Cancer Therapy. **2016**, 11, 491 42
- 681 Detection of pH and Enzyme-Free H₂O₂ Sensing Mechanism by Using GdO_x Membrane in Electrolyte-Insulator-Semiconductor Structure. **2016**, 11, 434 6
- 680 Graphene and graphene-based nanocomposites: biomedical applications and biosafety. **2016**, 4, 7813-7831 108
- 679 Chemistry at the Edge of Graphene. **2016**, 17, 785-801 91
- 678 Synthesis and Characterization of Bentonite-Reduced Graphene Oxide Composite: Application as Sensor for a Neurotransmitter, Dopamine. *Journal of the Electrochemical Society*, **2016**, 163, H705-H713 ³⁻⁹ 5
- 677 Effect of the Nature of Exfoliating Agents on the Structure of Graphenes with Various Degrees of Oxidation Obtained by Mechanochemical Treatment. **2016**, 52, 3-9 1
- 676 Hydrothermally functionalized biocompatible nitrogen doped graphene nanosheet based biomimetic platforms for nitric oxide detection. **2016**, 4, 4780-4789 13
- 675 Biosensors based on graphene oxide and its biomedical application. **2016**, 105, 275-287 218
- 674 Some Mechanical Properties of Graphene and Their Role in Forming Polymer Nanocomposites. **2016**, 109-120
- 673 Graphene-Based DNA Sensors. **2016**, 31-44
- 672 Graphene-Based DNA Sensors. **2016**, 13-26 2

- 671 Design and Applications of Graphene- and Biomolecule-Based Nanosensors and Nanodevices. **2016**, 21-30
- 670 Mechanical Properties of Graphene Sheets. **2016**, 77-94
- 669 MoS₂/reduced graphene oxide as active hybrid material for the electrochemical detection of folic acid in human serum. **2016**, 85, 807-813 70
- 668 Three-dimensional graphene/carbon nanotubes hybrid composites for exploring interaction between glucose oxidase and carbon based electrodes. *Journal of Electroanalytical Chemistry*, **2016**, 775, 235-242 4.1 16
- 667 Direct Electrodeposition to Fabricate a Graphene Nanosheet-Modified Electrode for Imidacloprid Determination. **2016**, 11, 1650074 2
- 666 Graphene oxide-mediated electrochemistry of glucose oxidase on glassy carbon electrodes. **2016**, 63, 157-62 7
- 665 Engineering the bioelectrochemical interface using functional nanomaterials and microchip technique toward sensitive and portable electrochemical biosensors. **2016**, 76, 80-90 78
- 664 Recent strategies to minimise fouling in electrochemical detection systems. **2016**, 35, 1-28 112
- 663 Self-assembly of gold nanoparticles on sulphide functionalized polydopamine in application to electrocatalytic oxidation of nitric oxide. *Journal of Electroanalytical Chemistry*, **2016**, 764, 7-14 4.1 23
- 662 Controlled growth cerium oxide nanoparticles on reduced graphene oxide for oxygen catalytic reduction. *Electrochimica Acta*, **2016**, 191, 669-676 6.7 34
- 661 Synthesis and functionalization of graphene and application in electrochemical biosensing. **2016**, 5, 17
- 660 Carbon materials for the electrooxidation of nucleobases, nucleosides and nucleotides toward cytosine methylation detection: a review. **2016**, 8, 702-715 26
- 659 Electrochemical aptasensor for tetracycline using a screen-printed carbon electrode modified with an alginate film containing reduced graphene oxide and magnetite (Fe₃O₄) nanoparticles. **2016**, 183, 723-729 62
- 658 Highly sensitive amperometric biosensor based on electrochemically-reduced graphene oxide-chitosan/hemoglobin nanocomposite for nitromethane determination. **2016**, 79, 894-900 52
- 657 Graphene as a Smart Material for the Recognition of DNA Biomolecule. **2016**, 302-305
- 656 Au nanoparticles decorated reduced graphene oxide for the fabrication of disposable nonenzymatic hydrogen peroxide sensor. *Journal of Electroanalytical Chemistry*, **2016**, 764, 64-70 4.1 40
- 655 Graphene oxide for rapid determination of testosterone in the presence of cetyltrimethylammonium bromide in urine and blood plasma of athletes. **2016**, 61, 246-50 17
- 654 In situ synthesis of graphene-encapsulated gold nanoparticle hybrid electrodes for non-enzymatic glucose sensing. **2016**, 98, 90-98 68

653	Phosphorene ribbons as anode materials with superhigh rate and large capacity for Li-ion batteries. 2016 , 302, 215-222	37
652	Recent development of carbon electrode materials and their bioanalytical and environmental applications. 2016 , 45, 715-52	205
651	Hydrogen bonding of graphene/polyaniline composites film for solid electrochromic devices. 2016 , 212, 1-11	29
650	Synergetic catalysis based on the proline tailed metalloporphyrin with graphene sheet as efficient mimetic enzyme for ultrasensitive electrochemical detection of dopamine. 2016 , 77, 1032-8	46
649	Graphene Functionalization for Biosensor Applications. 2016 , 85-141	24
648	Effect of glass surface treatments on the deposition of highly transparent reduced graphene oxide films by dropcasting method. 2016 , 498, 231-238	12
647	Recent Progress on Graphene-based Electrochemical Biosensors. 2016 , 16, 273-94	21
646	Layer-by-layer assembly of versatile nanoarchitectures with diverse dimensionality: a new perspective for rational construction of multilayer assemblies. 2016 , 45, 3088-121	244
645	Tuning Electrical Properties of Graphene with Different π -Stacking Organic Molecules. 2016 , 120, 4121-4129	38
644	Integration of graphene-hemin hybrid materials in an electroenzymatic system for degradation of diclofenac. <i>Electrochimica Acta</i> , 2016 , 190, 980-987	6.7 12
643	Electrochemical detection of cytosine and 5-methylcytosine on Au(111) surfaces. 2016 , 65, 27-30	8
642	Non-enzymatic electrochemical sensing of glucose and hydrogen peroxide using a bis(acetylacetonato)oxovanadium(IV) complex modified gold electrode. 2016 , 6, 20800-20806	21
641	Large-scale sensor systems based on graphene electrolyte-gated field-effect transistors. 2016 , 141, 2704-11	15
640	A simple and rapid method for direct determination of Al(III) based on the enhanced resonance Rayleigh scattering of hemin-functionalized graphene-Al(III) system. 2016 , 156, 22-7	6
639	Nanomaterial based electrochemical sensors for in vitro detection of small molecule metabolites. 2016 , 34, 234-49	69
638	Graphene/graphite paste electrode incorporated with molecularly imprinted polymer nanoparticles as a novel sensor for differential pulse voltammetry determination of fluoxetine. 2016 , 81, 198-206	71
637	Oxidative stress and immunotoxicity induced by graphene oxide in zebrafish. 2016 , 174, 54-60	106
636	Large-area chemical vapor deposition-grown monolayer graphene-wrapped silver nanowires for broad-spectrum and robust antimicrobial coating. 2016 , 9, 963-973	44

635	Mesoporous Few-Layer Graphene Platform for Affinity Biosensing Application. 2016 , 8, 7646-56		41
634	A GRAPHENE/ENZYME-BASED ELECTROCHEMICAL SENSOR FOR SENSITIVE DETECTION OF ORGANOPHOSPHORUS PESTICIDES. 2016 , 23, 1550103		9
633	Tetrahydrofuran and hydrogen peroxide mediated conversion of potassium hexacyanoferrate into Prussian blue nanoparticles: Application to hydrogen peroxide sensing. <i>Electrochimica Acta</i> , 2016 , 190, 758-765	6.7	23
632	Metal-Organic Frameworks/Graphene Oxide Composite: A New Enzymatic Immobilization Carrier for Hydrogen Peroxide Biosensors. <i>Journal of the Electrochemical Society</i> , 2016 , 163, B32-B37	3.9	31
631	Biomedical Perspective of Electrochemical Nanobiosensor. 2016 , 8, 193-203		43
630	Stable determination of paracetamol in the presence of uric acid in human urine sample using melamine grafted graphene modified electrode. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 760, 6-14	4.1	16
629	International Conference for Innovation in Biomedical Engineering and Life Sciences. 2016 ,		2
628	Platinum nanoparticles supported MoS ₂ nanosheet for simultaneous detection of dopamine and uric acid. 2016 , 59, 332-337		22
627	Signal enhancement in amperometric peroxide detection by using graphene materials with low number of defects. 2016 , 183, 83-90		8
626	A novel and label-free biosensors for uracil-DNA glycosylase activity based on the electrochemical oxidation of guanine bases at the graphene modified electrode. 2016 , 147, 98-102		39
625	Nano-assemblies consisting of Pd/Pt nanodendrites and poly (diallyldimethylammonium chloride)-coated reduced graphene oxide on glassy carbon electrode for hydrogen peroxide sensors. 2016 , 58, 1246-54		40
624	Label free electrochemical aptasensor for ultrasensitive detection of ractopamine. 2016 , 77, 347-52		63
623	Microbial glucose biosensors based on glassy carbon paste electrodes modified with Gluconobacter Oxydans and graphene oxide or graphene-platinum hybrid nanoparticles. 2016 , 183, 73-81		31
622	Simultaneously determination of trace Cd(2+) and Pb(2+) based on L-cysteine/graphene modified glassy carbon electrode. 2016 , 192, 351-7		84
621	Methods for the Determination of Endocrine-Disrupting Phthalate Esters. 2016 , 46, 146-59		22
620	Carbon nanomaterial-based electrochemical biosensors for label-free sensing of environmental pollutants. <i>Chemosphere</i> , 2016 , 143, 85-98	8.4	136
619	Recent advance in fabricating monolithic 3D porous graphene and their applications in biosensing and biofuel cells. 2017 , 89, 85-95		84
618	Graphene and tricobalt tetraoxide nanoparticles based biosensor for electrochemical glutamate sensing. 2017 , 45, 340-348		18

617	Recent advances in graphene-based nanomaterials for fabricating electrochemical hydrogen peroxide sensors. 2017 , 89, 249-268		243
616	An electrochemical biosensor to simultaneously detect VEGF and PSA for early prostate cancer diagnosis based on graphene oxide/ssDNA/PLLA nanoparticles. 2017 , 89, 598-605		150
615	Amperometric biosensor based on electrochemically reduced graphene oxide/poly(m-dihydroxybenzene) composites for glucose determination. 2017 , 32, 1-6		14
614	Immunosensing procedures for carcinoembryonic antigen using graphene and nanocomposites. 2017 , 89, 293-304		28
613	Electrochemical sensors and biosensors based on less aggregated graphene. 2017 , 89, 167-186		88
612	Titanium dioxide anchored graphene oxide nanosheets for highly selective voltammetric sensing of dopamine. 2017 , 184, 781-790		13
611	Functionalised carbon nano spheres modified electrode for simultaneous determination of dopamine and uric acid. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 787, 95-102	4.1	14
610	An ultrasensitive electrochemical biosensing platform for fructose and xylitol based on boronic acid-diol recognition. 2017 , 245, 11-17		9
609	The prospects of phosphorene as an anode material for high-performance lithium-ion batteries: a fundamental study. 2017 , 28, 075401		36
608	Electroanalytical Approach for Determination of Tanshinone IIA Based on Electrochemically Reduced Graphene Oxide Modified Gold Nanoparticles-Incorporated Carbon Paste Electrode. 2017 , 12, 1750001		
607	Advanced nanomaterials for use in electrochemical and optical immunoassays of carcinoembryonic antigen. A review. 2017 , 184, 389-414		67
606	Temperature and pH sensors based on graphenic materials. 2017 , 91, 870-877		67
605	A Reduced Graphene Oxide-based Electrochemical DNA Biosensor for the Detection of Interaction between Cisplatin and DNA based on Guanine and Adenine Oxidation Signals. <i>Electroanalysis</i> , 2017 , 29, 1451-1458	3	17
604	An Overview of Carbon Nanotubes and Graphene for Biosensing Applications. 2017 , 9, 25		166
603	One-pot preparation of PEDOT:PSS-reduced graphene decorated with Au nanoparticles for enzymatic electrochemical sensing of H ₂ O ₂ . 2017 , 407, 162-170		56
602	Implementation of a Simple Nanostructured Bio-electrode with Immobilized Rhus Vernicifera Laccase for Oxygen Sensing Applications. <i>Electroanalysis</i> , 2017 , 29, 1566-1572	3	5
601	A nanobiosensor composed of Exfoliated Graphene Oxide and Gold Nano-Urchins, for detection of GMO products. 2017 , 95, 72-80		33
600	Electrochemical Determination of the p53 Tumor Suppressor Gene Using a Gold Nanoparticle-Graphene Nanocomposite Modified Glassy Carbon Electrode. 2017 , 50, 336-349		3

599	Electrochemical monitoring of biointeraction by graphene-based material modified pencil graphite electrode. 2017 , 92, 207-214		31
598	Bisulfite-free approaches for DNA methylation profiling. 2017 , 9, 1537-1549		7
597	Label-free Detection of Influenza Viruses using a Reduced Graphene Oxide-based Electrochemical Immunosensor Integrated with a Microfluidic Platform. 2017 , 7, 42771		113
596	Simultaneous Reduction and Functionalization of Graphene Oxide via Ritter Reaction. 2017 , 9, 14265-14272		27
595	Electrochemical determination of dopamine and acetaminophen using activated graphene-Nafion modified glassy carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 794, 221-228	4.1	61
594	Integrating nanohybrid membranes of reduced graphene oxide: chitosan: silica sol gel with fiber optic SPR for caffeine detection. 2017 , 28, 195502		27
593	Conducting polymers revisited: applications in energy, electrochromism and molecular recognition. 2017 , 21, 2489-2515		52
592	Highly sensitive and selective non enzymatic electrochemical glucose sensors based on Graphene Oxide-Molecular Imprinted Polymer. 2017 , 78, 124-129		32
591	Reduced graphene oxide-chitosan-aptamer interface as new platform for ultrasensitive detection of human epidermal growth factor receptor 2. 2017 , 95, 117-123		86
590	Graphene for amino acid biosensing: Theoretical study of the electronic transport. 2017 , 419, 540-545		27
589	Modeling DNA oxidation in water. 2017 , 19, 13571-13578		8
588	Hybrid carbon based nanomaterials for electrochemical detection of biomolecules. 2017 , 88, 499-594		98
587	Supported binary liposome vesicle-gold nanoparticle for enhanced label free DNA and protein sensing. 2017 , 95, 168-173		15
586	Electrochemical paper-based peptide nucleic acid biosensor for detecting human papillomavirus. 2017 , 952, 32-40		134
585	Nanomaterials as Implantable Sensors. 2017 , 123-139		3
584	Electrochemical behavior of reduced graphene oxide and multi-walled carbon nanotubes composites for catechol and dopamine oxidation. <i>Electrochimica Acta</i> , 2017 , 246, 415-423	6.7	25
583	Porous carbon and Prussian blue composite: A highly sensitive electrochemical platform for glucose biosensing. 2017 , 14, 47-53		7
582	A versatile sensor for determination of seven species based on NiFe nanoparticles. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 797, 61-68	4.1	13

581	Graphene-based Electrochemical Biosensors: New Trends and Applications. 2017 , 427-448		2
580	A turn-on fluorescent lysine nanoprobe based on the use of the Alizarin Red aluminum(III) complex conjugated to graphene oxide, and its application to cellular imaging of lysine. 2017 , 184, 3521-3528		9
579	Two-dimensional black phosphorus nanosheets for theranostic nanomedicine. 2017 , 4, 800-816		127
578	Bioconjugated graphene oxide-based Raman probe for selective identification of SKBR3 breast cancer cells. 2017 , 48, 1056-1064		6
577	A chemically reduced graphene oxide/Au nanocage composite for the electrochemical detection of dopamine and uric acid. 2017 , 9, 3819-3824		15
576	Negative differential resistance in armchair silicene nanoribbons. 2017 , 28, 275402		5
575	Hydrogen peroxide sensor based on carbon nanowalls grown by plasma-enhanced chemical vapor deposition. 2017 , 56, 06HF03		22
574	Bioelectrochemical Systems for Measuring Microbial Cellular Functions. <i>Electroanalysis</i> , 2017 , 29, 1498-1505		20
573	Polyoxometalate-enabled photoreduction of graphene oxide to bioinspired nacre-like composite films for supercapacitor electrodes. 2017 , 121, 75-82		33
572	Graphene and functionalized graphene: Extraordinary prospects for nanobiocomposite materials. 2017 , 121, 34-57		108
571	Application of Carbon-Based Nanomaterials as Biosensor. 2017 , 87-127		3
570	A novel HO biosensor based on three-dimensional micro/nano-biointerfaces. 2017 , 5, 4233-4238		7
569	Electrochemical performance of TiCT MXene in aqueous media: towards ultrasensitive H ₂ O ₂ sensing. <i>Electrochimica Acta</i> , 2017 , 235, 471-479	6.7	151
568	Two-dimensional nanohybrid (RGS@AuNPs) as an effective catalyst for the reduction of 4-nitrophenol and photo-degradation of methylene blue dye. 2017 , 41, 3326-3332		16
567	Assessment of graphene oxide/MgAl oxide nanocomposite as a non-enzymatic sensor for electrochemical quantification of hydrogen peroxide. 2017 , 74, 255-262		16
566	NiO hedgehog-like nanostructures/Au/polyaniline nanofibers/reduced graphene oxide nanocomposite with electrocatalytic activity for non-enzymatic detection of glucose. 2017 , 518, 143-153		34
565	Selective electrocatalysis of reduced graphene oxide towards hydrogen peroxide aiming oxidases-based biosensing: Caution while interpreting. <i>Electrochimica Acta</i> , 2017 , 223, 1-7	6.7	5
564	One step electrochemical deposition and reduction of graphene oxide on screen printed electrodes for impedance detection of glucose. 2017 , 244, 290-298		37

563	Electrically conducting graphene-based polyurethane nanocomposites for microwave shielding applications in the Ku band. 2017 , 52, 1546-1560		51
562	Electrochemical detection dopamine by Ester-calix[n]arenes/graphene nanosheets modified electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 804, 16-22	4.1	13
561	General Metal-Ion Mediated Method for Functionalization of Graphene Fiber. 2017 , 9, 37022-37030		19
560	Electroanalysis with Carbon Film-based Electrodes. 2017 , 1-25		0
559	Physical properties of nanometer graphene oxide films partially and fully reduced by annealing in ultra-high vacuum. 2017 , 122, 075301		11
558	Diverse gatekeepers for mesoporous silica nanoparticle based drug delivery systems. 2017 , 46, 6024-6045		289
557	The Effect of Annealing Temperature on Nickel on Reduced Graphene Oxide Catalysts on Urea Electrooxidation. <i>Electrochimica Acta</i> , 2017 , 253, 489-497	6.7	31
556	Direct Electrodeposition to Fabricate Vertically-Oriented Graphene Nanosheets Modified Electrode and its Application for Determination of Levodopa in the Presence of Uric Acid and Ascorbic Acid. 2017 , 12, 1750087		3
555	Facile Synthesis of Cuprous Oxide/Gold Nanocomposites for Nonenzymatic Amperometric Sensing of Hydrogen Peroxide. <i>Electroanalysis</i> , 2017 , 29, 2773-2779	3	8
554	Microporous Nanocomposite Enabled Microfluidic Biochip for Cardiac Biomarker Detection. 2017 , 9, 33576-33588		43
553	Paper-based Electrochemical Devices Coupled to External Graphene-Cu Nanoparticles Modified Solid Electrode through Meniscus Configuration and their Use in Biological Analysis. <i>Electroanalysis</i> , 2017 , 29, 2628-2637	3	19
552	Non-enzymatic amperometric hydrogen peroxide sensor using a glassy carbon electrode modified with gold nanoparticles deposited on CVD-grown graphene. 2017 , 184, 4723-4729		11
551	Copper-Nitrogen-Doped Graphene Hybrid as an Electrochemical Sensing Platform for Distinguishing DNA Bases. <i>Analytical Chemistry</i> , 2017 , 89, 10858-10865	7.8	19
550	A facile route to synthesize ternary Cu ₂ O quantum dot/graphene-TiO ₂ nanocomposites with an improved photocatalytic effect. 2017 , 25, 684-690		12
549	Graphene-Based Biosensors and Their Applications in Biomedical and Environmental Monitoring. 2017 , 261-290		9
548	Nanoparticle-Based Immunochemical Biosensors and Assays: Recent Advances and Challenges. 2017 , 117, 9973-10042		390
547	Recent advancements, key challenges and solutions in non-enzymatic electrochemical glucose sensors based on graphene platforms. 2017 , 7, 36949-36976		78
546	Graphene and graphene oxide for biosensing. 2017 , 148, 1937-1944		6

545	Graphene-based smart materials. 2017 , 2,			391
544	Carbon Nanomaterials in Biological Studies and Biomedicine. 2017 , 6, 1700574			95
543	Amperometric ascorbic acid biosensor based on carbon nanoplatelets derived from ground cherry husks. 2017 , 82, 139-144			13
542	An electrochemical sensor for dopamine based on polydopamine modified reduced graphene oxide anchored with tin dioxide and gold nanoparticles. 2017 , 9, 5322-5332			19
541	The novel sulfonated polyaniline-decorated carbon nanosphere nanocomposites for electrochemical sensing of dopamine. 2017 , 41, 15439-15446			11
540	Development of an aptasensor using reduced graphene oxide chitosan complex to detect Salmonella. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 806, 88-96	4.1		46
539	A novel nanoenzyme based on Fe ₃ O ₄ nanoparticles@thionine-imprinted polydopamine for electrochemical biosensing. 2017 , 253, 108-114			30
538	Selective Electrochemical Determination of Salicylic Acid in Wheat Using Molecular Imprinted Polymers. 2017 , 50, 2369-2385			8
537	Determination of amino acids in sugarcane vinasse by ion chromatographic using nickel nanoparticles on reduced graphene oxide modified electrode. 2017 , 134, 374-382			18
536	Application of Coal in Electrochemical Sensing. <i>Analytical Chemistry</i> , 2017 , 89, 8358-8365	7.8		15
535	Electrochemical sensor based on reduced graphene oxide/carbon black/chitosan composite for the simultaneous determination of dopamine and paracetamol concentrations in urine samples. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 799, 436-443	4.1		90
534	Sensors for Electrochemical Determination of Various Oxidizable Analytes with a Graphene Oxide (GO) and/or Multi Walled Carbon Nanotubes (MWCNTs) Modified Glassy Carbon Electrode. 2017 , 301-306			
533	Cholesterol immobilization on chemical vapor deposition grown graphene nanosheets for biosensors and bioFETs with enhanced electrical performance. 2017 , 253, 559-565			12
532	New Approach for Porous Chitosan-Graphene Matrix Preparation through Enhanced Amidation for Synergic Detection of Dopamine and Uric Acid. <i>ACS Omega</i> , 2017 , 2, 3043-3054	3.9		38
531	Carbon nanostructures as immobilization platform for DNA: A review on current progress in electrochemical DNA sensors. 2017 , 97, 226-237			68
530	βCyclodextrin protected Cu nanoclusters as a novel fluorescence sensor for graphene oxide in environmental water samples. 2017 , 32, 596-601			8
529	Reduced Graphene Oxide Based Turn-On Fluorescence Sensor for Highly Reproducible and Sensitive Detection of Small Organic Pollutants. 2017 , 5, 604-615			35
528	Emerging Approaches for Graphene Oxide Biosensor. <i>Analytical Chemistry</i> , 2017 , 89, 232-248	7.8		84

527	A non-enzymatic amperometric hydrogen peroxide sensor based on iron nanoparticles decorated reduced graphene oxide nanocomposite. 2017 , 487, 370-377		55
526	Simultaneous electrochemical detection of Cd(II), Pb(II), As(III) and Hg(II) ions using ruthenium(II)-textured graphene oxide nanocomposite. 2017 , 162, 574-582		78
525	Hierarchically mesostructured porous TiO hollow nanofibers for high performance glucose biosensing. 2017 , 92, 654-660		45
524	A Two-step Strategy for the Selective and Sensitive Detection of Dopamine with Glassy Carbon Electrodes. <i>Electroanalysis</i> , 2017 , 29, 208-212	3	5
523	Nanoparticles-assembled NiO nanosheets templated by graphene oxide film for highly sensitive non-enzymatic glucose sensing. 2017 , 238, 788-794		65
522	Printed organo-functionalized graphene for biosensing applications. 2017 , 87, 7-17		33
521	A green and simple strategy to prepare graphene foam-like three-dimensional porous carbon/Ni nanoparticles for glucose sensing. 2017 , 239, 172-179		49
520	A terminal-block strategy for the amplified detection of DNA-break events. 2017 , 238, 331-336		1
519	Cadmium oxide based efficient electrocatalyst for hydrogen peroxide sensing and water oxidation. 2017 , 28, 1092-1100		11
518	Functionalization of Reduced Graphene Oxide with β -cyclodextrin Modified Palladium Nanoparticles for the Detection of Hydrazine in Environmental Water Samples. <i>Electroanalysis</i> , 2017 , 29, 587-594	3	17
517	A label-free electrochemical aptasensor for sensitive myoglobin detection in meat. 2017 , 242, 1239-1245		21
516	Simultaneous determination of trace Cd(II) and Pb(II) based on Bi/Nafion/reduced graphene oxide-gold nanoparticle nanocomposite film-modified glassy carbon electrode by one-step electrodeposition. 2017 , 23, 767-777		45
515	Materials for Chemical Sensing. 2017 ,		5
514	Smart Nanomaterials. 2017 , 219-276		1
513	A platinum/reduced Graphene Oxide nanocomposites modified Nafion coated implantable microelectrode array intent on neural dopamine and electrophysiological recordings. 2017 ,		
512	Early detection of Alzheimer's disease using a biosensor based on electrochemically-reduced graphene oxide and gold nanowires for the quantification of serum microRNA-137. 2017 , 7, 55709-55719		63
511	An Electrochemical DNA Biosensor Based on Au-reduced Graphene Oxide Nanocomposite for Transgenic Event Bt63 Detection. 2017 , 33, 1155-1160		7
510	Few-Flakes Reduced Graphene Oxide Sensors for Organic Vapors with a High Signal-to-Noise Ratio. <i>Nanomaterials</i> , 2017 , 7,	5-4	9

509	Graphene Oxide Modified Electrodes for Dopamine Sensing. 2017 , 2017, 1-11		12
508	Biotechnological Production Process and Life Cycle Assessment of Graphene. 2017 , 2017, 1-10		11
507	Green conversion of graphene oxide to graphene nanosheets and its biosafety study. 2017 , 12, e0171607		21
506	The Investigation of Electrochemistry Behaviors of Tyrosinase Based on Directly-Electrodeposited Graphene on Choline-Gold Nanoparticles. 2017 , 22,		4
505	Graphene-based aptasensors: from molecule-interface interactions to sensor design and biomedical diagnostics. 2018 , 143, 1526-1543		64
504	Graphene@AuNPs modified molecularly imprinted electrochemical sensor for the determination of colchicine in pharmaceuticals and serum. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 816, 7-13	4.1	16
503	CNT Applications in Drug and Biomolecule Delivery. 2018 , 61-64		9
502	Synthesis and Chemical Modification of Graphene. 2018 , 107-119		
501	Graphene Applications in Sensors. 2018 , 125-132		
500	Graphene Applications in Batteries and Energy Devices. 2018 , 133-139		2
499	Medical and Pharmaceutical Applications of Graphene. 2018 , 149-150		1
498	Graphene Applications in Specialized Materials. 2018 , 151-154		
497	Miscellaneous Applications of Graphene. 2018 , 155-155		
496	Basic Electrochromics of CPs. 2018 , 251-282		
495	Batteries and Energy Devices. 2018 , 575-600		
494	Brief, General Overview of Applications. 2018 , 43-44		
493	CNT Applications in Batteries and Energy Devices. 2018 , 49-52		1
492	Hierarchically structured CuFe ₂ O ₄ ND@RGO composite for the detection of oxidative stress biomarker in biological fluids. 2018 , 5, 944-950		44

491	Fabrication of highly sensitive MnO ₂ /F-MWCNT/Ta hybrid nanocomposite sensor with different MnO ₂ overlayer thickness for H ₂ O ₂ detection. 2018 , 44, 8064-8071		7
490	Electro-oxidized Monolayer CVD Graphene Film Transducer for Ultrasensitive Impedimetric DNA Biosensor. <i>Electroanalysis</i> , 2018 , 30, 1791-1800	3	16
489	Application of Different Carbon Materials for Carbon Paste Electrodes to Simultaneous Electrochemical Detection of four DNA Bases with High Simpleness. <i>Electroanalysis</i> , 2018 , 30, 1723-1733 ³		3
488	Chemiresistive Graphene Sensors for Ammonia Detection. 2018 , 10, 16169-16176		67
487	Reduced graphene oxide-ZnO nanocomposite based electrochemical sensor for sensitive and selective monitoring of 8-hydroxy-2'-deoxyguanosine. 2018 , 185, 550-556		31
486	Atomic layer deposition-developed two-dimensional MoO ₃ windows excellent hydrogen peroxide electrochemical sensing capabilities. 2018 , 262, 334-344		38
485	Exploration of photothermal sensors based on photothermally responsive materials: a brief review. 2018 , 5, 751-759		22
484	Nanostructured Electrochemical Biosensors for Label-Free Detection of Water- and Food-Borne Pathogens. 2018 , 10, 6055-6072		76
483	Facile Synthesis of Cyclodextrin Functionalized Reduced Graphite Oxide with the Aid of Ionic Liquid for Simultaneous Determination of Guanine and Adenine. <i>Electroanalysis</i> , 2018 , 30, 842-851	3	3
482	Preparation of Nano Au and Pt Alloy Microspheres Decorated with Reduced Graphene Oxide for Nonenzymatic Hydrogen Peroxide Sensing. 2018 , 34, 2235-2244		42
481	A versatile platform for fast and sensitive hydrogen peroxide detecting based on ferric-mediated radical reaction. 2018 , 522, 61-68		
480	Graphene oxide regulates cox2 in human embryonic kidney 293T cells via epigenetic mechanisms: dynamic chromosomal interactions. 2018 , 12, 117-137		14
479	Graphene: from synthesis to engineering to biosensor applications. <i>Frontiers of Materials Science</i> , 2018 , 12, 1-20	2.5	19
478	Graphene and its sensor-based applications: A review. 2018 , 270, 177-194		308
477	Clearance of low molecular-weight uremic toxins p-cresol, creatinine, and urea from simulated serum by adsorption. 2018 , 252, 203-210		29
476	The Effect of Varying Ultrafast Pulse Laser Energies on the Electrical Properties of Reduced Graphene Oxide Sheets in Solution. 2018 , 47, 1117-1124		3
475	Fabrication of sensitive bioelectrode based on atomically thin CVD grown graphene for cancer biomarker detection. 2018 , 105, 173-181		43
474	Electrochemical sensing platform based on kelp-derived hierarchical meso-macroporous carbons. 2018 , 1003, 16-25		18

473	Selective electrochemical detection of dopamine based on molecularly imprinted poly(5-amino 8-hydroxy quinoline) immobilized reduced graphene oxide. 2018 , 53, 10627-10639	23
472	Graphene Oxide-Facilitated Comprehensive Analysis of Cellular Nucleic Acid Binding Proteins for Lung Cancer. 2018 , 10, 17756-17770	8
471	Effect of pH on fluorescence quenching of organic dyes by graphene oxide. 2018 , 550, 123-131	16
470	Common Electrochemical Principles for PTS Detection. 2018 , 47-82	
469	Preparation and characterization of reduced graphene oxide supported nickel oxide nanoparticle-based platform for sensor applications. 2018 , 20, 1	17
468	Graphene-based nanomaterials in innovative electrochemistry. 2018 , 10, 24-30	14
467	Transient absorption and time-resolved vibrational studies of photophysical and photochemical processes in DNA-intercalating polypyridyl metal complexes or cationic porphyrins. 2018 , 364, 137-154	19
466	Graphene-based bioelectrochemistry and bioelectronics: A concept for the future?. 2018 , 12, 141-147	4
465	Electrochemical detection of reduced graphene oxide nanoparticles in aqueous solution. 2018 , 44, 3753-3760	4
464	Nanotechnology and Nanomaterials for Improving Neural Interfaces. 2018 , 28, 1700905	45
463	Advances in sensing and biosensing of bisphenols: A review. 2018 , 998, 1-27	43
462	Three dimensional phytic acid-induced graphene as a solid-phase microextraction fiber coating and its analytical applications for nerolidol in tea. 2018 , 29, 107-110	26
461	Construction of a paper-based electrochemical biosensing platform for rapid and accurate detection of adenosine triphosphate (ATP). 2018 , 256, 931-937	32
460	The biomass of ground cherry husks derived carbon nanoplates for electrochemical sensing. 2018 , 255, 3248-3256	37
459	Nitrogen and sulfur co-doped graphene nanoribbons: A novel metal-free catalyst for high performance electrochemical detection of 2, 4, 6-trinitrotoluene (TNT). 2018 , 126, 328-337	60
458	A miniaturized and flexible cadmium and lead ion detection sensor based on micro-patterned reduced graphene oxide/carbon nanotube/bismuth composite electrodes. 2018 , 255, 1220-1227	86
457	Electrochemical sensor based on palladium-reduced graphene oxide modified with gold nanoparticles for simultaneous determination of acetaminophen and 4-aminophenol. 2018 , 178, 188-194	105
456	A Facile Synthesis of Ferrocene Functionalized Graphene Oxide Nanocomposite for Electrochemical Sensing of Lead. 2018 , 28, 1021-1028	15

455	Copper Oxide/Cobalt Nanostructures/Reduced Graphene Oxide/Biomass-Derived Macroporous Carbon for Glucose Sensing. 2018 , 5, 501-506	21
454	Catalyst-free deposition of few layer graphene on c-plane sapphire substrates by drop casting technique. 2018 , 29, 4413-4421	4
453	Electrochemical determination of uric acid in the presence of ascorbic acid by hybrid of ZnO nanorods and graphene nanosheets. 2018 , 24, 2499-2507	13
452	Nucleic acid-based electrochemical nanobiosensors. 2018 , 102, 479-489	58
451	A novel label-free electrochemical immunosensor for ultra-sensitively detecting prostate specific antigen based on the enhanced catalytic currents of oxygen reduction catalyzed by core-shell Au@Pt nanocrystals. 2018 , 102, 276-281	52
450	Non-covalently functionalized graphene strengthened poly(vinyl alcohol). 2018 , 139, 372-379	207
449	One step conversion of waste polyethylene to Cr ₃ C ₂ nanorods and Cr ₂ AlC particles under mild conditions. 2018 , 5, 2893-2897	13
448	Construction of myoglobin-amphiphilic alginate caprylamide-graphene composite modified electrode for the direct electron transfer between redox proteins and electrode and electrocatalysis of myoglobin.. 2018 , 8, 38003-38012	
447	An ultrasensitive fluorescent aptasensor for detection of cancer marker proteins based on graphene oxide-ssDNA.. 2018 , 8, 41143-41149	6
446	Controlled synthesis of hierarchical ZSM-5 for catalytic fast pyrolysis of cellulose to aromatics. 2018 , 6, 21178-21185	29
445	Graphene-Based Nanomaterials and Their Applications in Biosensors. 2018 , 1064, 61-71	5
444	Overviews of Biomimetic Medical Materials. 2018 , 1064, 3-24	3
443	Dual-aptamer-based voltammetric biosensor for the Mycobacterium tuberculosis antigen MPT64 by using a gold electrode modified with a peroxidase loaded composite consisting of gold nanoparticles and a Zr(IV)/terephthalate metal-organic framework. 2018 , 185, 543	23
442	Peptide Nucleic Acid-Assisted Label-free Detection of Single-Nucleotide Polymorphisms Based on Light Scattering of Carbon Nanotubes. <i>ACS Omega</i> , 2018 , 3, 17835-17841	3-9 8
441	Nitrogen-rich core-shell structured particles consisting of carbonized zeolitic imidazolate frameworks and reduced graphene oxide for amperometric determination of hydrogen peroxide. 2018 , 185, 501	8
440	Synthesis of a three-dimensional interconnected carbon nanorod aerogel from wax gourd for amperometric sensing. 2018 , 185, 482	15
439	Synthesis and properties of graphene and its 2D inorganic analogues with potential applications. 2018 , 41, 1	3
438	Recent advances in graphene-based biosensor technology with applications in life sciences. 2018 , 16, 75	204

437	Modified Electrodes for Selective Voltammetric Detection of Biomolecules. <i>Electroanalysis</i> , 2018 , 30, 2551-2574	3	13
436	Disposable amperometric immunosensor for <i>Saccharomyces cerevisiae</i> based on carboxylated graphene oxide-modified electrodes. 2018 , 410, 7901-7907		9
435	Incorporation of Conductive Materials into Hydrogels for Tissue Engineering Applications. <i>Polymers</i> , 2018 , 10,	4.5	67
434	Preparation and Electrochemical Performances of Graphene Oxide/PEDOT and Reduced Graphene Oxide/PEDOT Nanofibers and Nanocomposites. 2018 , 19, 2178-2187		9
433	The Role of Surface Chemistry in Impedimetric Aptasensing. 2018 , 5, 3654-3659		6
432	Paper-Based Analytical Methods for Smartphone Sensing with Functional Nanoparticles: Bridges from Smart Surfaces to Global Health. <i>Analytical Chemistry</i> , 2018 , 90, 12325-12333	7.8	40
431	A reduced graphene oxide-cyclodextrin-platinum nanocomposite modified screen printed electrode for the detection of cysteine. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 829, 230-240	4.1	25
430	Quantifying Graphene Oxide Reduction Using Spectroscopic Techniques: A Chemometric Analysis. 2018 , 72, 1764-1773		4
429	Octadecylamine-functionalized graphene vesicles based voltammetric sensing of hydroquinone. 2018 , 276, 404-412		17
428	Differential Pulse Voltammetric Detection of Ferulic Acid Using RGO-TiO ₂ Electrodes. 2018 ,		0
427	The pH dependent reactions of graphene oxide with small molecule thiols.. 2018 , 8, 18388-18395		9
426	Nano-biosensor based on reduced graphene oxide and gold nanoparticles, for detection of phenylketonuria-associated DNA mutation. 2018 , 12, 417-422		28
425	Synthesis of Aqueous Dispersible Reduced Graphene Oxide by the Reduction of Graphene Oxide in Presence of Carbonic Acid. 2018 , 3, 5630-5638		26
424	A Review on Graphene-Based Nanomaterials in Biomedical Applications and Risks in Environment and Health. 2018 , 10, 53		183
423	Nanobiosensors Based on Graphene Electrodes: Recent Trends and Future Applications. 2018 , 161-177		1
422	Vertical Graphene for Biosensors. 2018 , 37-56		1
421	A tri-layer thin film containing graphene oxide to protect zinc substrates from wear. 2018 , 5, 066401		3
420	Biomedical Applications of Graphene Nanomaterials and Beyond. 2018 , 4, 2653-2703		123

419	Chemical sensing with 2D materials. 2018 , 47, 4860-4908		317
418	Graphene and 2D-Like Nanomaterials: Different Biofunctionalization Pathways for Electrochemical Biosensor Development. 2018 , 1-35		6
417	Carbon-Based Nanomaterials for Electrochemical DNA Sensing. 2018 , 113-150		3
416	Effect of pH on the Reduction of Graphene Oxide on its Structure and Oxygen Reduction Capabilities in the Alkaline Media. <i>Electroanalysis</i> , 2018 , 30, 1938-1945	3	2
415	Impedimetric Aptasensors Using Nanomaterials. 2018 , 233-267		2
414	Mesoporous Carbon Nanospheres as a Multifunctional Carrier for Cancer Theranostics. 2018 , 8, 663-675		80
413	Electrochemical sensor for detection of cancer cell based on folic acid and octadecylamine-functionalized graphene aerogel microspheres. 2018 , 119, 156-162		36
412	Functionalization of Graphene and Graphene Oxide for Plasmonic and Biosensing Applications. 2018 , 85-112		3
411	Fabrication of Coaxial Wet-Spun Biofibres Containing Graphene Core. 2018 , 79-106		
410	Metal-organic framework-based molecularly imprinted polymer as a high sensitive and selective hybrid for the determination of dopamine in injections and human serum samples. 2018 , 118, 129-136		56
409	Encapsulation of Microorganisms, Enzymes, and Redox Mediators in Graphene Oxide and Reduced Graphene Oxide. 2018 , 609, 197-219		3
408	Nondestructive Real-Time Monitoring of Enhanced Stem Cell Differentiation Using a Graphene-Au Hybrid Nanoelectrode Array. 2018 , 30, e1802762		34
407	Optoelectronics Based Dynamic Advancement of Graphene: Characteristics and Applications. 2018 , 8, 171		5
406	One-Step Electrochemical Fabrication of Reduced Graphene Oxide/Gold Nanoparticles Nanocomposite-Modified Electrode for Simultaneous Detection of Dopamine, Ascorbic Acid, and Uric Acid. <i>Nanomaterials</i> , 2017 , 8,	5-4	60
405	Reversible Redox Activity by Ion-pH Dually Modulated Duplex Formation of i-Motif DNA with Complementary G-DNA. <i>Nanomaterials</i> , 2018 , 8,	5-4	2
404	Frequency Response of Graphene Electrolyte-Gated Field-Effect Transistors. 2018 , 18,		13
403	Tobramycin mediated silver nanospheres/graphene oxide composite for synergistic therapy of bacterial infection. 2018 , 183, 342-348		21
402	Simultaneous Determination of Carmine and Amaranth Based on a Poly(L-Arginine)@Graphene Modified Electrode. 2018 , 73, 817-823		5

401	Bioelectronics with nanocarbons. 2018 , 6, 7159-7178		30
400	Urease enzyme as anodic catalyst in a microfluidic fuel cell. 2018 , 1052, 012057		
399	Direct electrochemical detection of guanosine-5'-monophosphate at choline monolayer supported and gold nanocages functionalized carbon nanotubes sensing interface. 2018 , 274, 343-348		10
398	Graphene and Graphene-Based Nanomaterials for DNA Detection: A Review. 2018 , 23,		42
397	Comparison of NAD with NADP-dependent Glutamate Dehydrogenase, and CNT with rGO-modified Electrodes, for the Construction of Glutamate Sensors. <i>Electroanalysis</i> , 2018 , 30, 2237-2240	3	4
396	DNA Electrochemistry and Electrochemical Sensors for Nucleic Acids. 2018 , 11, 197-218		90
395	Poly-L-lysine Coated Surfaces for Ultrasensitive Nucleic Acid Detection. <i>Electroanalysis</i> , 2018 , 30, 1556-1565		17
394	Hybridized graphene nanomaterials for drug delivery, cyto-compatibility, and electrochemical biosensor application * *Volume VI: Carbon (Nanotube, Fullerene, Graphene) Nanomaterials.. 2018 , 375-411		1
393	Alumina/graphene/Cu hybrids as highly selective sensor for simultaneous determination of epinephrine, acetaminophen and tryptophan in human urine. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 823, 184-192	4.1	21
392	Three-dimensional kenaf stem-derived macroporous carbon/reduced graphene oxide/polyaniline integrated electrode for supercapacitors. <i>Electrochimica Acta</i> , 2018 , 281, 638-645	6.7	15
391	Carbon Electrodes in Electrochemical Analysis of Biomolecules and Bioactive Substances: Roles of Surface Structures and Chemical Groups. 2018 , 51-111		4
390	Sandwich pair nanobodies, a potential tool for electrochemical immunosensing serum prostate-specific antigen with preferable specificity. 2018 , 158, 361-369		18
389	Carbonized Polymer Nanostructures for Biosensing. 2019 ,		1
388	Fabrication and application of graphene-based composites for indoor air quality and wastewater treatment. 2019 , 359-387		
387	Ultrasensitive Optical Detection of Water Pressure in Microfluidics Using Smart Reduced Graphene Oxide Glass. <i>Frontiers in Chemistry</i> , 2019 , 7, 395	5	8
386	A facile approach to synthesis graphene oxide/bismuth oxide nanocomposites and their superior sunlight driven photocatalytic activity. 2019 , 197, 163035		3
385	Raman spectroscopy coupled with AFM scan head: A versatile combination for tailoring graphene oxide/reduced graphene oxide hybrid materials. 2019 , 495, 143539		19
384	Doped Graphene Quantum Dots for Intracellular Multicolor Imaging and Cancer Detection. 2019 , 5, 4671-4682		38

383	Electrospun Au nanoparticle-containing ZnO nanofiber for non-enzyme H ₂ O ₂ sensor. 2019 , 25, 5527-5536	6
382	Graphene Oxide/Silver Nanowire Nanocomposites for Enhanced Sensing of Hg ²⁺ . 2019 , 2, 4842-4851	37
381	Creation of Conductive Graphene Materials by Bacterial Reduction Using. 2019 , 8, 888-895	12
380	Bio-inspired assembly of reduced graphene oxide by fibrin fiber to prepare multi-functional conductive bio-nanocomposites as versatile electrochemical platforms. 2019 , 153, 504-512	10
379	A Glassy Carbon Electrode Modified with Molybdenite and Ag Nanoparticle Composite for Selectively Sensing of Ascorbic Acid. 2019 , 35, 733-738	6
378	Two-dimensional nanomaterials for biosensing applications. 2019 , 119, 115610	59
377	Non-Enzymatic Amperometric Detection of H ₂ O ₂ on One-Step Electrochemical Fabricated Cu ₂ O/Electrochemically Reduced Graphene Oxide Nanocomposite. 2019 , 4, 8317-8321	7
376	Boosting the high-capacity with multi-active centers: A first-principles investigation of NiPS ₃ monolayer as an anode material. 2019 , 495, 143534	9
375	Hybrid Carbon Nanostructures for Chemical and Biological Sensors. 2019 , 357-374	
374	Editors' Choice An Enzymatic Electrode Integrated with Alcohol Dehydrogenase and Chloranil in Liquid-Crystalline Cubic Phases on Carbon Nanotubes for Sensitive Amperometric Detection of NADH and Ethanol. <i>Journal of the Electrochemical Society</i> , 2019 , 166, G116-G121	3.9 4
373	Facile fabrication of biosensors based on Cu nanoparticles modified as-grown CVD graphene for non-enzymatic glucose sensing. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 853, 113527	4.1 11
372	Conductive Polymers and Hydrogels for Neural Tissue Engineering. 2019 , 99, 489-510	14
371	Ultra-selective detection of Cd ²⁺ and Pb ²⁺ using glycine functionalized reduced graphene oxide/polyaniline nanocomposite electrode. 2019 , 257, 116185	21
370	In-situ fabrication of reduced graphene oxide/leucomethylene blue/platinum nanoparticles modified electrode for voltammetric determination of trace Fe(II) in seawater. 2019 , 151, 104210	4
369	Electrically Conductive, Reduced Graphene Oxide Structures Fabricated by Inkjet Printing and Low Temperature Plasma Reduction.. 2019 , 4, 1900834	13
368	Advances in Spectroscopy: Molecules to Materials. 2019 ,	2
367	Configurable-ECC: Architecting a Flexible ECC Scheme to Support Different Sized Accesses in High Bandwidth Memory Systems. 2019 , 68, 646-659	2
366	Graphene-Based Composite Materials. 2019 , 91-114	

365	Application of Graphene Materials in Molecular Diagnostics. 2019 , 535-560		
364	The Dynamics of Hole Transfer in DNA. 2019 , 24,		8
363	Dual-Enhanced Raman Scattering-Based Characterization of Stem Cell Differentiation Using Graphene-Plasmonic Hybrid Nanoarray. 2019 , 19, 8138-8148		38
362	Graphene-Based Nanocomposite Materials for the Design of Electrochemical Sensors and Their Applications. 2019 , 535-568		0
361	Carbonized Electrodes for Electrochemical Sensing. 2019 ,		2
360	Sensitive determination of the anti-viral drug valganciclovir by a nafion/magnetic nanoparticle-graphene/GCE as a voltammetric sensor. 2019 , 11, 4659-4667		6
359	Amine-Functionalized MoO@RGO Nanohybrid-Based Biosensor for Breast Cancer Detection.. 2019 , 2, 5366-5378		36
358	Impact of nano-morphology, lattice defects and conductivity on the performance of graphene based electrochemical biosensors. 2019 , 17, 101		18
357	Metal-free rGO/GO hybrid microelectrode array for sensitive and in-situ hydrogen peroxide sensing. <i>Electrochimica Acta</i> , 2019 , 326, 134967	6.7	5
356	Electro oxidation and analytical applications of nimesulide at graphene oxide and reduced graphene oxide modified carbon paste electrode. 2019 , 18, 751-758		5
355	Glucose oxidase immobilized amine terminated multiwall carbon nanotubes/reduced graphene oxide/polyaniline/gold nanoparticles modified screen-printed carbon electrode for highly sensitive amperometric glucose detection. 2019 , 105, 110075		45
354	Fabrication of Graphene/Molybdenum Disulfide Composites and Their Usage as Actuators for Electrochemical Sensors and Biosensors. 2019 , 24,		12
353	Viability of Neural Cells on 3D Printed Graphene Bioelectronics. 2019 , 9,		16
352	Laser and thermal dewetting of gold layer onto graphene paper for non-enzymatic electrochemical detection of glucose and fructose. 2019 , 301, 127113		34
351	A novel hydrogen peroxide sensor based on electrodeposited copper/cuprous oxide nanocomposites. 2019 , 144, 685-690		15
350	Nanomaterials-Based Enzyme Biosensors for Electrochemical Applications: Recent Trends and Future Prospects. 2019 , 381-408		4
349	Graphene- and Graphene Oxide-Based Nanocomposite Platforms for Electrochemical Biosensing Applications. 2019 , 20,		59
348	Highly Sensitive and Selective Dopamine Detection Utilizing Nitrogen-Doped Mesoporous Carbon Prepared by a Molten Glucose-Assisted Hard-Template Approach. 2019 , 84, 845-852		7

347	Thermodynamic stability of nitrogen functionalities and defects in graphene and graphene nanoribbons from first principles. 2019 , 152, 715-726		11
346	Electrical Biosensing at Physiological Ionic Strength Using Graphene Field-Effect Transistor in Femtoliter Microdroplet. 2019 , 19, 4004-4009		32
345	Observation of the interaction between avidin and iminobiotin using a graphene FET on a SiC substrate. 2019 , 58, SDDD02		7
344	Co3O4-CuNi/reduced graphene composite for non-enzymatic detection of ascorbic acid. 2019 , 34, 665-673		6
343	Permselectivity of Electrodeposited Polydopamine/Graphene Composite for Voltammetric Determination of Dopamine. <i>Electroanalysis</i> , 2019 , 31, 1744-1751	3	5
342	Recent advances in electrochemical nonenzymatic hydrogen peroxide sensors based on nanomaterials: a review. 2019 , 54, 12319-12357		62
341	Evaluation of the electrocatalytic activity and stability of graphene oxide nanosheets coated by Co/Ni elements toward hydrogen evolution reaction. 2019 , 6, 085524		5
340	Ball-Mill-Exfoliated Graphene: Tunable Electrochemistry and Phenol Sensing. 2019 , 15, e1805567		37
339	Biocompatibility Considerations in the Design of Graphene Biomedical Materials. 2019 , 6, 1900229		36
338	Preparation of graphene/Au aerogel film through the hydrothermal process and application for HO detection.. 2019 , 9, 13042-13047		2
337	Development of Biocompatible Cellulose Microfiber Stabilized Carbon Nanofiber Hydrogel for the Efficient Electrochemical Determination of Nicotinamide Adenine Dinucleotide in Physiological Fluids. <i>Journal of the Electrochemical Society</i> , 2019 , 166, B581-B588	3.9	10
336	Glucose sensor based on porous Ni by using a graphene bottom layer combined with a Ni middle layer. 2019 , 149, 609-617		20
335	A review on graphene-based nanocomposites for electrochemical and fluorescent biosensors.. 2019 , 9, 8778-8881		342
334	Simultaneous voltammetric immunodetection of alpha-fetoprotein and glypican-3 using a glassy carbon electrode modified with magnetite-conjugated dendrimers. 2019 , 186, 255		17
333	Fabrication of nanoporous graphene/cuprous oxide nanocomposite and its application for chemiluminescence sensing of NADH in human serum and cells. 2019 , 290, 15-22		28
332	Literature Review. 2019 , 17-81		
331	Nanomaterials for molecular sensing. 2019 , 413-487		2
330	Prospects and challenges of graphene based fuel cells. 2019 , 39, 217-234		35

329	Improved adhesion and performance of vertically-aligned mesoporous silica-nanochannel film on reduced graphene oxide for direct electrochemical analysis of human serum. 2019 , 288, 133-140		20
328	An ultrasensitive electrochemical sensor for quercetin based on 1-pyrenebutyrate functionalized reduced oxide graphene /mercapto-β-cyclodextrin /Au nanoparticles composite film. 2019 , 288, 88-95		22
327	A Facile Method for Batch Preparation of Electrochemically Reduced Graphene Oxide. <i>Nanomaterials</i> , 2019 , 9,	5-4	14
326	Printed Flexible Sensors. 2019 ,		1
325	Novel sensitive amperometric hydrogen peroxide sensor using layered hierarchical porous β-MoO ₃ and GO modified glass carbon electrode. 2019 , 288, 641-648		34
324	Electrochemical investigation of the inhibition effect of carvacrol on xanthine oxidase activity merging with theoretical studies. 2019 , 83, 86-95		3
323	DNA conformational polymorphism for biosensing applications. 2019 , 131, 237-249		21
322	Electrochemical Fabrication of Prussian Blue Nanocube-decorated Electroreduced Graphene Oxide for Amperometric Sensing of NADH. <i>Electroanalysis</i> , 2019 , 31, 905-912	3	13
321	Green synthesis of cadmium oxide decorated reduced graphene oxide nanocomposites and its electrical and antibacterial properties. 2019 , 99, 696-709		34
320	Highly sensitive and selective dopamine sensing in biological fluids with one-pot prepared graphene/poly(o-phenylenediamine) modified electrodes. 2019 , 228, 357-362		15
319	Single step sol-gel synthesized Mn ₂ O ₃ -TiO ₂ decorated graphene for the rapid and selective ultra sensitive electrochemical sensing of dopamine. <i>Electrochimica Acta</i> , 2019 , 302, 291-300	6.7	19
318	Electrochemical aptasensor based on one step co-electrodeposition of aptamer and GO-CuNPs nanocomposite for organophosphorus pesticide detection. 2019 , 287, 503-509		88
317	Biomolecule-Functionalized Solid-State Ion Nanochannels/Nanopores: Features and Techniques. 2019 , 15, e1804878		76
316	Dewetted Gold Nanostructures onto Exfoliated Graphene Paper as High Efficient Glucose Sensor. <i>Nanomaterials</i> , 2019 , 9,	5-4	4
315	Synthesis and Characterization of Magnetic Fe ₃ O ₄ /Reduced Graphene Oxide and its Application in Determination of Dopamine. 2019 , 31, 2785-2792		3
314	Partially Reduced Graphene Oxide Sheet-Covered Polyaniline Nanotubes for the Simultaneous Determination of Bisphenol A and Phenol. <i>Journal of the Electrochemical Society</i> , 2019 , 166, B1661-B1668	3.9	8
313	High-Strength, Self-Healable, Temperature-Sensitive, MXene-Containing Composite Hydrogel as a Smart Compression Sensor. 2019 , 11, 47350-47357		90
312	Selective Functionalization Blended with Scaffold Conductivity in Graphene Acid Promotes HO Electrochemical Sensing. <i>ACS Omega</i> , 2019 , 4, 19944-19952	3.9	12

311	Simultaneous detection of acetaminophen and 4-aminophenol with an electrochemical sensor based on silver-palladium bimetal nanoparticles and reduced graphene oxide.. 2019 , 9, 31440-31446		13
310	Real time detection of adenosine and theophylline in urine and blood samples using graphene modified electrode. 2019 , 278, 46-54		29
309	Preparation and adsorption property of graphene oxide by using waste graphite from diamond synthesis industry. 2019 , 221, 47-57		23
308	An electrochemical aptasensor for staphylococcal enterotoxin B detection based on reduced graphene oxide and gold nano-urchins. 2019 , 127, 221-228		37
307	Rapid and label-free, electrochemical DNA detection utilizing the oxidase-mimicking activity of cerium oxide nanoparticles. 2019 , 99, 5-10		20
306	Electrochemical sensing of purines guanine and adenine using single-walled carbon nanohorns and nanocellulose. <i>Electrochimica Acta</i> , 2019 , 298, 893-900	6.7	36
305	Laser-derived graphene: A three-dimensional printed graphene electrode and its emerging applications. 2019 , 24, 81-102		86
304	Electrically-Transduced Chemical Sensors Based on Two-Dimensional Nanomaterials. 2019 , 119, 478-598		294
303	Structural Quantification for Graphene and Related Two-Dimensional Materials by Raman Spectroscopy. <i>Analytical Chemistry</i> , 2019 , 91, 468-481	7.8	14
302	Graphene oxide model with desirable structural and chemical properties. 2019 , 143, 566-577		17
301	Sub-femtomolar detection of HIV-1 gene using DNA immobilized on composite platform reinforced by a conductive polymer sandwiched between two nanostructured layers: A solid signal-amplification strategy. 2019 , 1055, 7-16		19
300	Detection of trace Cd ²⁺ , Pb ²⁺ and Cu ²⁺ ions via porous activated carbon supported palladium nanoparticles modified electrodes using SWASV. 2019 , 225, 433-442		29
299	Carbon-based nanomaterials as an emerging platform for theranostics. 2019 , 6, 434-469		173
298	Preparation of NiCo ₂ O ₄ and NiCo ₂ S ₄ micro-onions for electrochemical sensing of glucose. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	3
297	A sensitive electrochemical genosensor for highly specific detection of thalassemia gene. 2019 , 129, 182-188		10
296	Graphene-Based Nanovehicles for Drug Delivery. 2019 , 77-111		3
295	Graphene-Modified Electrochemical Sensors. 2019 , 1-41		4
294	Graphene/Metal-Organic Framework-Modified Electrochemical Sensors. 2019 , 275-296		8

293	Combining 3D graphene-like screen-printed carbon electrode with methylene blue-loaded liposomal nanoprobe for phospholipase A detection. 2019 , 126, 255-260	3
292	Tuning polyelectrolyte-graphene interaction for enhanced electrochemical nonenzymatic hydrogen peroxide sensing. 2019 , 1049, 98-104	9
291	Graphene/Clay-Based Hybrid Nanostructures for Electrochemical Sensors and Biosensors. 2019 , 235-274	16
290	DNA hybridisation sensors for product authentication and tracing: State of the art and challenges. 2019 , 27, 16-34	0
289	Graphene oxide-based NET strategy for enhanced colorimetric sensing of miRNA. 2019 , 282, 861-867	27
288	Platinum nanoparticles decorated graphene nanoribbon with eco-friendly unzipping process for electrochemical sensors. 2019 , 96, 566-574	13
287	Graphene for Energy Storage and Conversion: Synthesis and Interdisciplinary Applications. 2020 , 3, 395-430	39
286	F-containing initiator for ultrasensitive fluorescent detection of lung cancer DNA via atom transfer radical polymerization. 2020 , 1094, 99-105	7
285	Fabrication of novel graphene aerogel by the assistance of l-tyrosine and excellent adsorption for organic solvents. 2020 , 46, 253-266	1
284	Recent Progress on Uric Acid Detection: A Review. 2020 , 50, 359-375	35
283	Poly(N-vinylpyrrolidone)-stabilized colloidal graphene-reinforced poly(ethylene-co-methyl acrylate) to mitigate electromagnetic radiation pollution. 2020 , 77, 2923-2943	53
282	Free chlorine induced phototransformation of graphene oxide in water: Reaction kinetics and product characterization. 2020 , 381, 122609	13
281	Potential of a sensitive uric acid biosensor fabricated using hydroxyapatite nanowire/reduced graphene oxide/gold nanoparticle. 2020 , 83, 268-275	4
280	A sensitive HO biosensor based on carbon nanotubes/tetrathiafulvalene and its application in detecting NADH. 2020 , 589, 113493	15
279	Gold nanoclusters-poly(9,9-dioctylfluorenyl-2,7-diyl) dots@zeolitic imidazolate framework-8 (ZIF-8) nanohybrid based probe for ratiometric analysis of dopamine. 2020 , 1098, 102-109	17
278	Semi-empirical simulations of interactions between edge-functionalized graphene oxide and bisphenol A. 2020 , 23, 85-90	
277	Nanomaterials for molecular signal amplification in electrochemical nucleic acid biosensing: recent advances and future prospects for point-of-care diagnostics. 2020 , 5, 49-66	31
276	The electrochemical determination of hazardous 4-hydroxynitrobenzene using NiS ₂ decorated graphene oxide nanocomposite in the river water sample. 2020 , 153, 104502	2

275	A fluorescence/colorimetric dual-mode sensing strategy for miRNA based on graphene oxide. 2020 , 412, 233-242		6
274	Endogenous Cys-Assisted GSH@AgNCs-rGO Nanoprobe for Real-Time Monitoring of Dynamic Change in GSH Levels Regulated by Natural Drug. <i>Analytical Chemistry</i> , 2020 , 92, 1988-1996	7.8	20
273	Carbonized silk fabric-based flexible organic electrochemical transistors for highly sensitive and selective dopamine detection. 2020 , 304, 127414		22
272	Anodic Electrochemiluminescence of Carbon Dots Promoted by Nitrogen Doping and Application to Rapid Cancer Cell Detection. <i>Analytical Chemistry</i> , 2020 , 92, 1379-1385	7.8	39
271	A new electrochemical sensor for simultaneous detection of sulfamethoxazole and trimethoprim antibiotics based on graphene and ZnO nanorods modified glassy carbon electrode. 2020 , 159, 105440		23
270	Evolution of novel rGO/ZrHCF composite and utility in electrocatalysis towards nanomolar detection of sodium nitrite and ferulic acid. 2020 , 31, 18923-18936		1
269	Review on exploration of graphene in the design and engineering of smart sensors, actuators and soft robotics. 2020 , 4, 100034		22
268	Analytical performance of functional nanostructured biointerfaces for sensing phenolic compounds. 2020 , 196, 111344		2
267	Solvent Effect on Supramolecular Self-Assembly of Chlorophylls a on Chemically Reduced Graphene Oxide. 2020 , 36, 13575-13582		6
266	Fully inkjet-printed multilayered graphene-based flexible electrodes for repeatable electrochemical response.. 2020 , 10, 38205-38219		4
265	Developing a versatile electrochemical platform with optimized electrode configuration through screen-printing technology toward glucose detection. 2020 , 22, 74		1
264	A critical review of contaminant removal by conventional and emerging media for urban stormwater treatment in the United States. 2020 , 187, 116434		18
263	Study on the adsorption of polystyrene microplastics by three-dimensional reduced graphene oxide. 2020 , 81, 2163-2175		21
262	Nanobiosensors for Detection of Phenolic Compounds. <i>Nanotechnology in the Life Sciences</i> , 2020 , 275-307		3
261	Localization of conduction electrons in hydrothermally reduced graphene oxide: electron paramagnetic resonance studies. 2020 , 168, 665-672		10
260	Recent developments in carbon-based two-dimensional materials: synthesis and modification aspects for electrochemical sensors. 2020 , 187, 441		21
259	Label-Free DNA Biosensor Using Modified Reduced Graphene Oxide Platform as a DNA Methylation Assay. <i>Materials</i> , 2020 , 13,	3.5	3
258	The processing and analysis of graphene and the strength enhancement effect of graphene-based filler materials: A review. 2020 , 15, 100257		14

257	2-D Bi ₂ O ₂ Se Nanosheets for Nonenzymatic Electrochemical Detection of H ₂ O ₂ . 2020 , 4, 1-4		1
256	One-pot Electrochemical Synthesis of Ni Nanoparticles-decorated Electroreduced Graphene Oxide for Improved NADH Sensing. <i>Electroanalysis</i> , 2020 , 32, 2323-2329	3	4
255	Two-Dimensional Indium Selenide for Sulphur Vapour Sensing Applications. <i>Nanomaterials</i> , 2020 , 10,	5-4	1
254	Improved synthesis of graphene oxide with controlled oxidation degree by using different dihydrogen phosphate as intercalators. 2020 , 539, 110938		7
253	Enhancement of Hydrogen Peroxide Reduction Current by an Electrode Modified with Hybrid Polymer/Silica Particles and N,N-diethyl-N-(2-methoxy-ethyl)-N-methylammonium bis(trifluoromethylsulfonyl)imide. <i>Electroanalysis</i> , 2020 , 32, 2113-2117	3	
252	Laser induced graphene for biosensors. 2020 , 25, e00205		19
251	Surface Functionalization of Green-synthesized Reduced Graphene Oxide with PPIX Enhances Photosensitization of Cancer Cells. 2020 , 96, 1283-1293		3
250	Ab initio study of N-doped graphene oxide (NDGO) as a promising anode material for Li-ion rechargeable battery. 2020 , 46, 1135-1145		11
249	Electrochemical Biosensors Based on Nanomaterials for Early Detection of Alzheimer's Disease. 2020 , 20,		16
248	Detection of Neurotransmitters from Stem Cell-Derived Neural Interface at the Single-Cell Level via Graphene-Hybrid SERS Nanobiosensing. 2020 , 20, 7670-7679		18
247	Efficiency Improvement of a Capacitive Deionization (CDI) System by Modifying 3D SWCNT/RVC Electrodes Using Microwave-Irradiated Graphene Oxide (mwGO) for Effective Desalination. 2020 , 2020, 1-14		3
246	One-Step Fabrication of Electrochemical Reduced Graphene Oxide-Carboxyl Functionalized Multiwalled Carbon Nanotubes Film and Its Use as a Platform for Determination of Clopidogrel Bisulfate. 2020 , 15, 2050130		0
245	DNA/RNA Electrochemical Biosensing Devices a Future Replacement of PCR Methods for a Fast Epidemic Containment. 2020 , 20,		16
244	Characterization and Modification of Graphene-Based Interfacial Mechanical Behavior. 2020 ,		
243	Self-assembled perylenetetracarboxylic acid-reduced graphene oxide film for high-sensitive impedimetric determination of thrombin. 2020 , 402, 126491		2
242	Low-cost Immobilized Enzyme Glucose Sensor based on Laminar Flow. 2020 , 1681, 012008		
241	. 2020 ,		0
240	Recent advances in photodynamic therapy based on emerging two-dimensional layered nanomaterials. 2020 , 13, 1485-1508		24

239	Highly selective electrochemical detection of ciprofloxacin using reduced graphene oxide/poly(phenol red) modified glassy carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 871, 114254	4.1	16
238	Direct electrodeposition of cationic pillar[6]arene-modified graphene oxide composite films and their host-guest inclusions for enhanced electrochemical performance.. 2020 , 10, 21954-21962		4
237	Electrochemical Reduction-Assisted Fabrication of a Graphene/Au Nanoparticles@polyoxometalate Nanohybrid Film: High-Performance Electrochemical Detection for Uric Acid. 2020 , 36, 7365-7374		9
236	Supramolecular Electrochemical Sensor for Dopamine Detection Based on Self-Assembled Mixed Surfactants on Gold Nanoparticles Deposited Graphene Oxide. 2020 , 25,		10
235	Electrochemical sensors based on nitrogen-doped reduced graphene oxide for the simultaneous detection of ascorbic acid, dopamine and uric acid. <i>Journal of Alloys and Compounds</i> , 2020 , 842, 155873	5-7	49
234	Nanomaterials for oncotherapies targeting the hallmarks of cancer. 2020 , 31, 392001		6
233	Facile One-Step Electrodeposition Preparation of Cationic Pillar[6]arene-Modified Graphene Films on Glassy Carbon Electrodes for Enhanced Electrochemical Performance. <i>Frontiers in Chemistry</i> , 2020 , 8, 430	5	2
232	High-temperature electromagnetic interference shielding materials. 2020 , 379-390		2
231	Multidimensional graphene structures and beyond: Unique properties, syntheses and applications. 2020 , 113, 100665		37
230	Application of carboxylic acid-functionalized of graphene oxide for electrochemical simultaneous determination of tryptophan and tyrosine in milk. 2020 , 2, 1		7
229	Switchable Graphene-Based Bioelectronics Interfaces. 2020 , 8, 45		10
228	Strong influence of strain gradient on lithium diffusion: flexo-diffusion effect. 2020 , 12, 15175-15184		5
227	Ruthenium Nanoparticles Uniformly-designed Chemically Treated Graphene Oxide Nanosheets for Simultaneous Voltammetric Determination of Dopamine and Acetaminophen. <i>Electroanalysis</i> , 2020 , 32, 2156-2165	3	18
226	Green Preparation of Few-Layer Graphene Sheet Materials Using Naturally Occurring Calcium Carbonate and Plant Leaves. 2020 , 5, 7517-7520		1
225	Synthesis of silver nanoparticles decorated on reduced graphene oxide nanosheets and their electrochemical sensing towards hazardous 4-nitrophenol. 2020 , 31, 11927-11937		10
224	ReviewRecent Advances in Carbon Nanomaterials as Electrochemical Biosensors. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 037555	3.9	148
223	Printed gas sensors. 2020 , 49, 1756-1789		106
222	An efficient graphene/graphite paste sensor chemically modified by diphenylcarbazone for the detection of Al(III) ions in real water samples. 2020 , 155, 104691		4

221	Chemical sensor systems based on 2D and thin film materials. 2020 , 7, 022002		23
220	Review Non-Enzymatic Hydrogen Peroxide Electrochemical Sensors Based on Reduced Graphene Oxide. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 037531	3-9	52
219	State-of-Art Bio-Assay Systems and Electrochemical Approaches for Nanotoxicity Assessment. 2020 , 8, 325		8
218	In situ growth of FeOOH nanoparticles on physically-exfoliated graphene nanosheets as high performance H ₂ O ₂ electrochemical sensor. 2020 , 313, 128038		32
217	Heterogeneity of Water Molecules on the Free Surface of Thin Reduced Graphene Oxide Sheets. 2020 , 124, 11064-11074		3
216	Electrochemical biosensing platforms on the basis of reduced graphene oxide and its composites with Au nanodots. 2020 , 145, 3749-3756		4
215	Development of graphene-based enzymatic biofuel cells: A minireview. 2020 , 134, 107537		24
214	Recent advances in biosensors for in vitro detection and in vivo imaging of DNA methylation. 2021 , 171, 112712		29
213	Investigation of the usability of nitric acid electrolyte in graphene production by electrochemical method. 2021 , 29, 175-182		0
212	Carbon Related Materials. 2021 ,		2
211	Fabrication of poly-sulfosalicylic acid film decorated pure carbon fiber as electrochemical sensing platform for detection of theophylline. 2021 , 192, 113663		7
210	Nanomaterial-based electrochemical sensors and biosensors for the detection of pharmaceutical compounds. 2021 , 175, 112836		66
209	Tailoring molecular permeability of vertically-ordered mesoporous silica-nanochannel films on graphene for selectively enhanced determination of dihydroxybenzene isomers in environmental water samples. 2021 , 410, 124636		15
208	Novel paper- and fiber optic-based fluorescent sensor for glucose detection using aniline-functionalized graphene quantum dots. 2021 , 329, 129250		17
207	A graphene oxide Cookbook: Exploring chemical and colloidal properties as a function of synthesis parameters. 2021 , 588, 725-736		4
206	The layer-by-layer assembly of reduced graphene oxide films and their application as solution-gated field-effect transistors. 2021 , 543, 148698		9
205	Preparation of Trace Fe ₂ P Modified N,P Co-doped Carbon Materials and their Application to Hydrogen Peroxide Detection. <i>Electroanalysis</i> , 2021 , 33, 831-837	3	5
204	Electrokinetic behavior of a pH-regulated dielectric cylindrical nanopore. 2021 , 588, 94-100		3

203	Selective monitoring of ultra-trace guanine and adenine from hydrolyzed DNA using boron-doped carbon electrode surfaces. 2021 , 329, 129192		18
202	Optimization of silver nanoparticles modified pencil graphite electrodes via altering sputtering condition and addition of graphene. <i>Journal of Alloys and Compounds</i> , 2021 , 856, 157295	5-7	1
201	Sensing Applications of Atomically Thin Group IV Carbon Siblings Xenos: Progress, Challenges, and Prospects. 2021 , 31, 2005957		21
200	Funktionelle Nukleinsäure-Nanomaterialien: Entwicklung, Eigenschaften und Anwendungen. 2021 , 133, 6966-6995		3
199	Functional Nucleic Acid Nanomaterials: Development, Properties, and Applications. 2021 , 60, 6890-6918		55
198	Conductive Polymer Nanobiosensors. 2021 , 85-118		1
197	Biosensors based on two-dimensional materials. 2021 , 245-312		
196	Graphene Nanofiber-Based Composites for Fuel Cell Application. 2021 , 149-177		1
195	Application of graphene in energy storage device [A review]. 2021 , 135, 110026		171
194	Novel fluorescent biosensor for carcinoembryonic antigen determination via atom transfer radical polymerization with a macroinitiator. 2021 , 45, 3112-3119		1
193	Preparation and characterization of polythiophene/graphene oxide/epoxy nanocomposite coatings with advanced properties. 1		2
192	Carbon-based Nanomaterials and Curcumin: A Review of Biosensing Applications. 2021 , 1291, 55-74		2
191	Graphene Based Materials for Supercapacitors and Fuel Cells. 2021 , 399-399		0
190	Cu/Electrochemically reduced graphene oxide layered nanocomposite for non-enzymatic H ₂ O ₂ sensor. 2021 , 46, 6971-6975		3
189	Hierarchical structure of molybdenum disulfide-reduced graphene oxide nanocomposite for the development of a highly efficient serotonin biosensing platform.		2
188	Graphene-based nanocomposites for biomedical engineering application. 2021 , 197-224		
187	Study on the Application of Acetylcholinesterase-Based Disposable Paper-Based Sensor to the Detection of Fenitrothion. 2021 , 11, 218-229		1
186	Graphene: A two dimensional super material for sensor applications. 2021 , 43, 203-208		4

185	Fundamental aspects of graphene and its biosensing applications. 2021 , 3, 012001		8
184	Recent progresses and remaining challenges for the detection of Zika virus. 2021 , 41, 2039-2108		7
183	Glucose Bio Sensor Base Nanocomposite Graphene/Tio2. 2021 , 1818, 012038		1
182	Graphene-Based Sensors for the Detection of Bioactive Compounds: A Review. 2021 , 22,		11
181	Antifouling Strategies for Electrochemical Biosensing: Mechanisms and Performance toward Point of Care Based Diagnostic Applications. 2021 , 6, 1482-1507		28
180	Carbon Nanomaterials: Synthesis, Functionalization and Sensing Applications. <i>Nanomaterials</i> , 2021 , 11,	5-4	32
179	Unveiling the Fundamental Mechanisms of Graphene Oxide Selectivity on the Ascorbic Acid, Dopamine, and Uric Acid by Density Functional Theory Calculations and Charge Population Analysis. 2021 , 21,		1
178	Full review: The progress and developing trends of nanosheet-based sensing applications. 2021 , 433, 213742		11
177	A brief note on the potential of homo-oligo-dsDNA and hetero-oligo-dsDNA based on their binder-free electrochemical characteristics on gold electrode. 2021 , 1157, 338377		
176	Impact of surface roughness on the self-assembling of molecular films onto gold electrodes for label-free biosensing applications. <i>Electrochimica Acta</i> , 2021 , 378, 138137	6.7	5
175	Dual Transduction of H2O2 Detection Using ZnO/Laser-Induced Graphene Composites. 2021 , 9, 102		4
174	Efficient electrocatalytic oxidation of NADH by highly dispersible in situ N-doped ionic liquid-functionalized graphene nanosheets. e2100050		
173	Underivatized amino acids detection by anion-exchange chromatography coupled to a nanostructured detector. 2021 , 1174, 122733		
172	Anti-Fouling Effects of Carbon Nanofiber in Electrochemical Sensing of Phenolic Compounds. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 067501	3.9	2
171	Application of Nanomaterials for Chemical and Biological Sensors: A Review. 2021 , 21, 12407-12425		6
170	Synthesis of a clustered carbon aerogel interconnected by carbon balls from the biomass of taros for construction of a multi-functional electrochemical sensor. 2021 , 1164, 338514		7
169	Gelatin-based adhesive hydrogel with self-healing, hemostasis, and electrical conductivity. 2021 , 183, 2142-2151		15
168	Bio-inspired PtNPs/Graphene nanocomposite based electrocatalytic sensing of metabolites of dipyrone. 2021 , 1167, 338562		6

167	Reassessing the Necessity of the Drying Step in Hummer's Method for Graphene Oxide Synthesis. <i>Electroanalysis</i> ,	3	2
166	Electrochemical chloramphenicol sensors-based on trace MoS ₂ modified carbon nanomaterials: Insight into carbon supports. <i>Journal of Alloys and Compounds</i> , 2021 , 872, 159687	5-7	11
165	Chitosan/Graphene Oxide Composite Films and Their Biomedical and Drug Delivery Applications: A Review. 2021 , 11, 7776		0
164	Hydrothermally reduced graphene oxide as a sensing material for electrically transduced pH sensors. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 895, 115530	4-1	4
163	Graphene for the Building of Electroanalytical Enzyme-Based Biosensors. Application to the Inhibitory Detection of Emerging Pollutants. <i>Nanomaterials</i> , 2021 , 11,	5-4	3
162	Laser Scribing Fabrication of Graphitic Carbon Biosensors for Label-Free Detection of Interleukin-6. <i>Nanomaterials</i> , 2021 , 11,	5-4	1
161	Growth of monolayer and multilayer graphene on glassy carbon electrode for simultaneous determination of guanine, adenine, thymine, and cytosine. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 895, 115403	4-1	3
160	Amorphous Carbon Film with Self-modified Carbon Nanoparticles Synthesized by Low Temperature Carbonization of Phenolic Resin for Simultaneous Sensing of Dopamine and Uric Acid. <i>Electroanalysis</i> , 2021 , 33, 2252	3	2
159	Effect of different lateral dimension graphene oxide sheets on the interface of carbon fiber reinforced polymer composites. 2021 , 213, 108939		4
158	Simultaneous Electrodeposition of Reduced Graphene Quantum Dots/Copper Oxide Nanocomposite on the Surface of Carbon Ceramic Electrode for the Electroanalysis of Adenine and Guanine. <i>Electroanalysis</i> ,	3	0
157	Banana peel derived nitrogen-doped porous carbon with enhanced electrocatalytic activity for complete oxidation of methanol under room temperature. 2021 , 344, 130112		2
156	Carbon nanomaterials: Synthesis, properties and applications in electrochemical sensors and energy conversion systems. 2021 , 272, 115341		7
155	Enhanced heterogeneous electron transfer kinetics in Graphene Oxide produced from mechanically milled Graphite. 2021 , 5, 100095		1
154	Rapid detection of SARS-CoV-2 using graphene-based IoT integrated advanced electrochemical biosensor. 2021 , 305, 130824		12
153	Sensing Materials: Graphene. 2021 ,		0
152	Graphene Nanocomposite-Based Nanoproducts for Renewable Energy Application. 2021 , 1-16		
151	Sensing Materials: Nanostructured Biomaterials. 2021 ,		
150	Research Progress of Flexible Electrochemical Sensors Based on Carbon-Based Materials. 2021 , 11, 108-116		

149	Electrochemical behaviour of some redox couples at layer-by-layer assembled poly(diallyl dimethylammonium)/reduced graphene oxide electrodes. 2017 , 214, 1700096	3
148	Carbon Materials From Various Sources for Composite Materials. 2020 , 3-33	1
147	CNT Applications in Microelectronics, Nanoelectronics, and Nanobioelectronics 2018 , 65-72	1
146	CNT Applications in Displays and Transparent, Conductive Films/Substrates. 2018 , 73-75	1
145	Graphene Applications in Electronics, Electrical Conductors, and Related Uses. 2018 , 141-146	3
144	Characterization Methods. 2018 , 403-488	2
143	Microwave- and Conductivity-Based Technologies. 2018 , 655-669	1
142	CNT Applications in Sensors and Actuators. 2018 , 53-60	2
141	Functional DNA-Integrated Nanomaterials for Biosensing. 2013 , 277-305	5
140	Electrochemical DNA Biosensors Based on Carbon Nanomaterials. 2021 , 209-247	2
139	Ternary hybrid of polyaniline-alanine-reduced graphene oxide for electrochemical sensing of heavy metal ions. 2020 , 265, 116410	17
138	Nucleobase chemosensor based on carbon nanodots. 2017 , 173, 107-112	7
137	Chapter 1:Carbon-based Nanomaterials in Analytical Chemistry. 2018 , 1-36	5
136	Effects of the surface chemistry and structure of carbon nanotubes on the coating of glucose oxidase and electrochemical biosensors performance. 2017 , 7, 26867-26878	27
135	Dopamine detection on activated reaction field consisting of graphene-integrated silicon photonic cavity. 2019 , 27, 32058-32068	5
134	Electrochemical evaluation of the antioxidant capacity of natural compounds on glassy carbon electrode modified with guanine-, polythionine-, and nitrogen-doped graphene. 2020 , 18, 1054-1063	2
133	A Facile Electrochemical Fabrication of Reduced Graphene Oxide-Modified Glassy Carbon Electrode for Simultaneous Detection of Dopamine, Ascorbic Acid, and Uric Acid. 2017 , 8, 274-281	9
132	Recent trends in the graphene-based sensors for the detection of hydrogen peroxide. 2018 , 5, 422-466	11

131	Sensitive Voltammetric Determination of Mitoxantrone by Using CS-Dispersed Graphene Modified Glassy Carbon Electrodes. 2012 , 02, 453-460	8
130	Impedimetric Hg ²⁺ Detection on Multilayered Reduced Graphene Oxide-Modified Electrode. 2012 , 33, 4219-4222	5
129	Graphene Oxide-based Direct Measurement of DNase I Activity with Single Stranded DNA. 2014 , 35, 2749-2752	4
128	Synthesis, Properties and Potential Applications of Porous Graphene: A Review. 2013 , 5, 260	3
127	A new nano-composite carbon ink for disposable dopamine biosensors. 2016 , 29, 35-42	1
126	Graphene Oxide of Extra High Oxidation: A Wafer for Loading Guest Molecules. 2021 , 12, 10015-10024	1
125	Fabrication of Cu(II) oxide-hydroxide nanostructures onto graphene paper by laser and thermal processes for sensitive nano-electrochemical sensing of glucose. 2021 , 33,	0
124	Application of Functionalized Graphene Oxide Based Biosensors for Health Monitoring: Simple Graphene Derivatives to 3D Printed Platforms. 2021 , 11,	2
123	Autocharging Techniques for Implantable Medical Applications. 2021 , 2021, 6074657	0
122	Regiochemically Oxo-functionalized Graphene, Guided by Defect Sites, as Catalyst for Oxygen Reduction to Hydrogen Peroxide. 2021 , 12, 10009-10014	2
121	Development of HRP-modified Carbon Composite Biosensor and Electrochemical Analysis of H ₂ O ₂ . 2012 , 56, 571-576	
120	Graphene. 2013 , 1-30	
119	Surface Characterization of Graphene. 2013 , 73-90	
118	Chemically derived graphene. 2014 , 223-250	1
117	Application of GO in Biotechnology. 2015 , 137-151	
116	Nanocarbon Film-Based Electrochemical Detectors and Biosensors. 2015 , 121-136	
115	Synthesis, Modification and Characterization of Nanocarbon Electrodes for Determination of Nucleic Acids. 2015 , 1-35	
114	Electrochemical Sensing and Biosensing Platforms Using Graphene and Graphene-Based Nanocomposites. 325-360	

113 Applications of Graphene Electrodes in Health and Environmental Monitoring. 361-392

112 References. 257-276

111 Synthesis, Modification, and Characterization of Nanocarbon Electrodes for Determination of Nucleic Acids. **2016**, 241-281

110 Electrochemical Sensors Based on Nanostructured Materials. **2016**, 1143-1160

109 CHAPTER 9: Nanomaterial-Based Electrochemical Sensors for Highly Sensitive Detection of Foodborne Pathogens. **2016**, 203-225

108 Carbon Nanomaterials-based Enzymatic Electrochemical Sensing. 155-208

107 References. **2017**, 105-121

106 Fabrication of Highly Graphitic Mesoporous Carbon and the Study on Its Electrochemical Detection. **2017**, 05, 1-6

105 Basic Electrochemistry of CPs. **2018**, 283-309

104 Miscellaneous CNT Applications. **2018**, 89-90

103 CNT Applications in Specialized Materials. **2018**, 45-48

102 Structural Aspects and Morphology of CPs. **2018**, 389-402

101 Electronic Structure and Conduction Models of Graphene. **2018**, 101-106

100 Electrochromics. **2018**, 601-624

99 Classes of CPs: Part 1. **2018**, 489-507

98 Electro-Optic and Optical Devices. **2018**, 671-684

1

97 Conduction Models and Electronic Structure of CNTs. **2018**, 11-16

96 Miscellaneous Applications. **2018**, 695-715

- 95 Chapter 5:Carbon Nanomaterials in Electrochemical Detection. **2018**, 150-199 1
- 94 CNT Applications in the Environment and in Materials Used in Separation Science. **2018**, 81-87
- 93 Graphene Applications in Displays and Transparent, Conductive Films/Substrates. **2018**, 147-148
- 92 Classes of CPs: Part 2. **2018**, 509-545
- 91 Introducing Conducting Polymers (CPs). **2018**, 159-174
- 90 Syntheses and Processing of CPs. **2018**, 311-388
- 89 Physical, Mechanical, and Thermal Properties of CNTs. **2018**, 33-36
- 88 CNT Applications in Electrical Conductors, Quantum Nanowires, and Potential Superconductors. **2018**, 77-79
- 87 Toxicology of CNTs. **2018**, 37-39
- 86 Synthesis, Purification, and Chemical Modification of CNTs. **2018**, 17-31
- 85 Introducing Graphene. **2018**, 93-99
- 84 Sensors. **2018**, 549-574
- 83 Conduction Models and Electronic Structure of CPs. **2018**, 175-249 1
- 82 Brief, General Overview of Applications. **2018**, 123-124
- 81 Electrochemomechanical, Chemomechanical, and Related Devices. **2018**, 685-693
- 80 Displays, Including Light-Emitting Diodes (LEDs) and Conductive Films. **2018**, 625-654
- 79 Graphene, Its Analogues, and Modern Science. **2019**, 215-236
- 78 Indirect detection of 5-hydroxytryptamine and tyramine by using tris(2,2bipyridyl)ruthenium-graphene modified electrode coupled with capillary electrophoresis. **2019**, 10, 336-344 0

77	Synthesis of Ag-Au/Reduced Graphene Oxide/TiO ₂ Nanocomposites: Application as a Non-enzymatic Amperometric H ₂ O ₂ Sensor. 2020 , 16, 485-492	2
76	One-Step Formation of Reduced Graphene Oxide from Insulating Polymers Induced by Laser Writing Method. 2021 , 11, 1308	1
75	Graphene-Paper-Based Electrodes on Plastic and Textile Supports as New Platforms for Amperometric Biosensing. 2107941	4
74	Multifunctional hybrid skin patch for wearable smart healthcare applications. 2022 , 196, 113685	10
73	Interfacial Mechanics Between van der Waals Materials. 2020 , 97-134	
72	Heavy metal and metalloid electrochemical detection by composite nanostructures. 2020 , 185-250	
71	Electrical Biosensor Using Graphene Field-Effect Transistor and Small Receptor Molecules. 2021 , 91-101	
70	2D Graphene Nanostructures for Biomedical Applications.	1
69	Toxicity of Graphene: An Update. 2021 , 259, 51-76	2
68	Graphene-enabled wearable sensors for healthcare monitoring. 2022 , 197, 113777	14
67	Graphene Synthesis and Its Recent Advances in Applications: A Review. 2021 , 7, 76	2
66	Applications of Pristine and Functionalized Carbon Nanotubes, Graphene, and Graphene Nanoribbons in Biomedicine. <i>Nanomaterials</i> , 2021 , 11,	5.4 10
65	Biosensing Applications of Electrode Materials. 2022 , 187-231	0
64	Simultaneous electrochemical detection of Cd and Pb in aquatic samples via coupled graphene with brominated white polyaniline flakes. 2021 , 162, 110926	5
63	Electrochemical sensor to detect terbutaline in biological samples by a green agent. <i>Chemosphere</i> , 2021 , 289, 133171	8.4
62	Simultaneous Electro-Determination of Trace Copper, Lead and Cadmium in Tap Water by Using Silver Nanoparticles and Graphene Nanoplates as Nanocomposite Modified Graphite Electrode.	
61	Synthesis Strategies and Applications of Metallic Foams and Hollow Structured Materials. 2022 , 325-376	
60	Apparent Colors of 2D Materials. 2100221	2

59	RECENT ADVANCEMENTS IN GRAPHENE BIOSENSORS FOR THE DETECTION OF PATHOGENS - A REVIEW. 2018 , 55, 7-17		1
58	Metal Nanocomposites Based Electrochemical Sensor Platform for Few Emerging Biomarkers. 2022 , 18, 509-517		1
57	2D material-based optical sensors: a review.		1
56	Recent progress in the graphene functionalized nanomaterial-based electrochemical sensors. 2022 , 27-38		
55	Electrochemically reduced graphene oxide: Preparation, composites, and applications. 2022 , 191, 301-332		4
54	Simultaneous electro-determination of trace copper, lead, and cadmium in tap water by using silver nanoparticles and graphene nanoplates as nanocomposite modified graphite electrode. 2022 , 175, 107137		1
53	Recent advances in electrochemical analysis of hydrogen peroxide towards in vivo detection. 2022 , 115, 57-57		1
52	Biosensing Efficiency of Nanocarbon-Reinforced Polyacrylonitrile Nanofibrous Matrices. <i>Journal of the Electrochemical Society</i> ,	3.9	3
51	Carbon Materials in Electroanalysis of Preservatives: A Review.. <i>Materials</i> , 2021 , 14,	3.5	4
50	Carbonaceous Nanomaterials for Electrochemical Biosensing. 2022 ,		
49	Development of Nanomaterials Based on Graphene for Biomedical Purposes. <i>Nanotechnology in the Life Sciences</i> , 2022 , 161-174	1.1	
48	Carbon nanomaterials: Application as sensors for diagnostics. 2022 , 211-248		
47	Toward scalable fabrication of electrochemical paper sensor without surface functionalization. <i>Npj Flexible Electronics</i> , 2022 , 6,	10.7	1
46	Antibiotic Combination Therapy: A Strategy to Overcome Bacterial Resistance to Aminoglycoside Antibiotics.. <i>Frontiers in Pharmacology</i> , 2022 , 13, 839808	5.6	5
45	Recent Trends in Graphene/Polymer Nanocomposites for Sensing Devices: Synthesis and Applications in Environmental and Human Health Monitoring.. <i>Polymers</i> , 2022 , 14,	4.5	4
44	Two-dimensional nanomaterials-added dynamism in 3D printing and bioprinting of biomedical platforms: Unique opportunities and challenges.. <i>Biomaterials</i> , 2022 , 234, 121507	15.6	0
43	Platinum nanoparticles loaded carbon black: reduced graphene oxide hybrid platforms for label-free electrochemical DNA and oxidative DNA damage sensing. <i>Journal of Electroanalytical Chemistry</i> , 2022 , 910, 116180	4.1	0
42	Facile Electrochemical Fabrication of Pt Decorated rGO and Its Electro-Catalytic Applications. <i>Jom</i> , 1	2.1	

41	Porous graphene oxide based disposable non-enzymatic electrochemical sensor for the determination of nicotinamide adenine dinucleotide. <i>Micro and Nano Engineering</i> , 2022 , 15, 100133	3.4	1
40	Betulinic Acid-Graphene Oxide Nanocomposites for Cancer Treatment. <i>Science of Advanced Materials</i> , 2021 , 13, 2138-2148	2.3	0
39	An electrochemical sensor for sensitive detection of dopamine based on a COF/Pt/MWCNT-COOH nanocomposite.. <i>Chemical Communications</i> , 2022 , 58, 6092-6095	5.8	5
38	The novel advancements of nanomaterials in biofuel cells with a focus on electrodes applications. <i>Fuel</i> , 2022 , 322, 124237	7.1	1
37	Data_Sheet_1.docx. 2020 ,		
36	Presentation_1.pdf. 2019 ,		
35	Graphene Nanocomposite-Based Nanoproducts for Renewable Energy Application. 2022 , 357-372		
34	Recent Advances in Electrochemical Sensing of Hydrogen Peroxide (HO) Released from Cancer Cells.. <i>Nanomaterials</i> , 2022 , 12,	5.4	3
33	A Selective Electrochemical Sensor Based on Titanium Dioxide-Reduced Graphene Oxide Nanocomposite (TiO ₂ - RGO/GCE) for the Efficient Determination of Nitrite. <i>Materials Research Innovations</i> , 1-12	1.9	
32	Nanoarchitectonics with electrochemical additive manufacturing process for printing the reduced graphene oxide. <i>Applied Physics A: Materials Science and Processing</i> , 2022 , 128, 1	2.6	1
31	Nanoparticles Application in the Determination of Uric Acid, Ascorbic Acid, and Dopamine. <i>Russian Journal of Electrochemistry</i> , 2022 , 58, 341-359	1.2	
30	Two-Dimensional (2D) Nanostructures for Hazardous Gas Sensing Applications. 2022 , 1-21		
29	A sensor for selective dopamine determination based on overoxidized poly-1,5-diaminonaphthalene on graphene nanosheets. <i>Electroanalysis</i> ,	3	
28	Exploring the Role of Carbon-Based Nanomaterials in Microalgae for the Sustainable Production of Bioactive Compounds and Beyond. <i>ACS Omega</i> ,	3.9	0
27	Facile fabrication of electrochemically reduced graphene oxide/polythionine-methylene blue and its use as a platform for detection of nicotinamide adenine dinucleotide in the artificial urine sample. <i>Electrochimica Acta</i> , 2022 , 425, 140715	6.7	1
26	Why is graphene an extraordinary material? A review based on a decade of research. <i>Frontiers of Materials Science</i> , 2022 , 16,	2.5	0
25	Application of Graphene and its Derivatives in Detecting Hazardous Substances in Food: A Comprehensive Review. <i>Frontiers in Chemistry</i> , 10,	5	
24	Electrocatalytic oxidation of NADH at graphene-modified electrodes based on electropolymerized poly(thionine-methylene blue) films from nature deep eutectic solvents. <i>Journal of Electroanalytical Chemistry</i> , 2022 , 920, 116602	4.1	0

23	Silver doped dodecahedral metal-organic framework anchored RGO nanosheets for nanomolar quantification of priority toxic pollutant in aquatic environment. <i>Journal of Alloys and Compounds</i> , 2022 , 922, 166180	5.7	0
22	A bibliometric analysis of graphene in acetaminophen detection: Current status, development, and future directions. <i>Chemosphere</i> , 2022 , 306, 135517	8.4	1
21	The role of doping strategy in nanoparticle-based electrochemiluminescence biosensing. 2022 , 148, 108249		
20	Electrochemical DNA sensors for drug determination. 2022 , 221, 115058		1
19	Fabrication of DNA based biosensors driven by electrostatic attractions on electrodes modified with reduced graphene oxide and multi-walled carbon nanotubes.		0
18	Dispersion Stability of MWCNTs Decorated with Ag Nanoparticles through Pulse-Reversed Current Electrodeposition Using a Deep Eutectic Solvent.		0
17	2D Van der Waals Heterostructures for Chemical Sensing. 2207065		3
16	Tailor-designed Pd-Cu-Ni/rGO nanocomposite for efficient glucose electro-oxidation. 2022 , 925, 116917		0
15	Green reduction of graphene oxide as a substitute of acidic reducing agents for supercapacitor applications. 2023 , 287, 116128		2
14	Graphene Synthesis Techniques and Environmental Applications. 2022 , 15, 7804		1
13	Innovations in the synthesis of graphene nanostructures for bio and gas sensors. 2023 , 145, 213234		2
12	The potential of nano-enabled oral ecosystem surveillance for respiratory disease management. 2023 , 48, 101693		0
11	Electrochemical Uric Acid Sensors: Fundamentals and Commercial Status.		0
10	Synthesis and Characterization of Hybrid Materials Derived from Conjugated Copolymers and Reduced Graphene Oxide. 2022 , 14, 5292		0
9	Reduced graphene oxide coated poly-methyl methacrylate beads based thermoplastic polyurethane nanocomposites for gas sensing applications. 1-10		0
8	Optical and Electrical Properties of Low-Dimensional Crystalline Materials: A Review. 2023 , 13, 108		0
7	Synthesis and Functionalization of Graphene Materials for Biomedical Applications: Recent Advances, Challenges, and Perspectives. 2205292		0
6	Graphene-Based Transduction Systems in Biosensors. 2023 , 31-47		0

- 5 2D materials for flexible electronics. **2023**, 169-206 ○
- 4 Ultrasensitive determination of metronidazole using flower-like cobalt anchored on reduced graphene oxide nanocomposite electrochemical sensor. **2023**, 188, 108444 ○
- 3 Fluorescent sensor based on PtS₂-PEG nanosheets with peroxidase-like activity for intracellular hydrogen peroxide detection and imaging. **2023**, 1259, 341179 ○
- 2 An electrochemical sensor based on molecularly imprinted polydopamine coated on reduced graphene oxide for selective detection of ornidazole. ○
- 1 Carbon nanosheets to unravel the production of bioactive compounds from microalgae: A robust approach in drug discovery. **2023**, 103586 ○