CITATION REPORT List of articles citing

Graphene fluorescence resonance energy transfer aptasensor for the thrombin detection

DOI: 10.1021/ac9025384 Analytical Chemistry, 2010, 82, 2341-6.

Source: https://exaly.com/paper-pdf/47764308/citation-report.pdf

Version: 2024-04-25

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
827	A Target-Triggered DNAzyme Motor Enabling Homogeneous Amplified Detection of Proteins.		
826	Affinity Binding-Induced Hg2+ Release and Quantum Dot Doping for General, Label-Free, and Homogenous Fluorescence Protein Assay.		
825	Graphene-based materials in electrochemistry. 2010 , 39, 3157-80		1200
824	A Transparent, Flexible, Low-Temperature, and Solution-Processible Graphene Composite Electrode. 2010 , 20, 2893-2902		349
823	Thin film field-effect phototransistors from bandgap-tunable, solution-processed, few-layer reduced graphene oxide films. 2010 , 22, 4872-6		196
822	An aptamer-based biosensor for the detection of lysozyme with gold nanoparticles amplification. 2010 , 149, 110-115		78
821	Highly sensitive thermal detection of thrombin using aptamer-functionalized phase change nanoparticles. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 437-43	11.8	21
820	Graphene substrates promote adherence of human osteoblasts and mesenchymal stromal cells. 2010 , 48, 4323-4329		359
819	Aptamer/graphene oxide nanocomplex for in situ molecular probing in living cells. 2010 , 132, 9274-6		951
818	Distance-independent quenching of quantum dots by nanoscale-graphene in self-assembled sandwich immunoassay. 2010 , 46, 7909-11		102
817	Graphene as a novel matrix for the analysis of small molecules by MALDI-TOF MS. <i>Analytical Chemistry</i> , 2010 , 82, 6208-14	7.8	337
816	A sensitive aptasensor for adenosine based on the quenching of Ru(bpy)(3)(2+)-doped silica nanoparticle ECL by ferrocene. 2010 , 46, 7751-3		62
815	Real-time, step-wise, electrical detection of protein molecules using dielectrophoretically aligned SWNT-film FET aptasensors. 2010 , 10, 2052-6		40
814	A reagentless signal-on architecture for electronic, real-time copper sensors based on self-cleavage of DNAzymes. 2010 , 2, 627		8
813	Detection of Biomolecules via Benign Surface Modification of Graphene. 2011 , 23, 4879-4881		34
812	The Effects of Sensing Environment and Mixing Technique on Performance of Biosensors Based on Graphene Oxide Fluorescence Quenching. 2011 ,		
811	Salt-controlled assembly of stacked-graphene for capturing fluorescence and its application in chemical genotoxicity screening. 2011 , 21, 15266		5

(2011-2011)

810	Metal ion-modulated graphene-DNAzyme interactions: design of a nanoprobe for fluorescent detection of lead(II) ions with high sensitivity, selectivity and tunable dynamic range. 2011 , 47, 6278-80	155
809	Nucleic acid-functionalized nanomaterials for bioimaging applications. 2011 , 21, 16323	40
808	A novel fluorescent aptasensor for thrombin detection: using poly(m-phenylenediamine) rods as an effective sensing platform. 2011 , 47, 3927-9	51
807	A graphene oxide-based AIE biosensor with high selectivity toward bovine serum albumin. 2011 , 47, 12385-7	130
806	A fluorescence aptasensor based on DNA charge transport for sensitive protein detection in serum. 2011 , 136, 4764-9	12
805	Sensitive and rapid screening of T4 polynucleotide kinase activity and inhibition based on coupled exonuclease reaction and graphene oxide platform. <i>Analytical Chemistry</i> , 2011 , 83, 8396-402	158
804	Graphene oxide sheet-mediated silver enhancement for application to electrochemical biosensors. Analytical Chemistry, 2011 , 83, 648-53	155
803	A novel fluorescent aptasensor based on single-walled carbon nanohorns. 2011 , 3, 4589-92	31
802	Graphene and its derivative-based sensing materials for analytical devices. 2011 , 21, 18503	104
801	New role of graphene oxide as active hydrogen donor in the recyclable palladium nanoparticles catalyzed ullmann reaction in environmental friendly ionic liquid/supercritical carbon dioxide system. 2011 , 21, 3485	45
800	Graphene-DNAzyme based biosensor for amplified fluorescence "turn-on" detection of Pb2+ with a high selectivity. <i>Analytical Chemistry</i> , 2011 , 83, 5062-6	355
799	Controllable oxidative DNA cleavage-dependent regulation of graphene/DNA interaction. 2011 , 47, 4084-6	47
798	Graphene oxide based photoinduced charge transfer label-free near-infrared fluorescent biosensor for dopamine. <i>Analytical Chemistry</i> , 2011 , 83, 8787-93	240
797	A highly sensitive ultraviolet sensor based on a facile in situ solution-grown ZnO nanorod/graphene heterostructure. 2011 , 3, 258-64	258
796	Aptamer-based highly sensitive electrochemiluminescent detection of thrombin via nanoparticle layer-by-layer assembled amplification labels. 2011 , 47, 7758-60	46
795	Facile Fabrication of Metal Nanoparticle/Graphene Oxide Hybrids: A New Strategy To Directly Illuminate Graphene for Optical Imaging. 2011 , 115, 12815-12821	63
794	Aptamer biosensor based on fluorescence resonance energy transfer from upconverting phosphors to carbon nanoparticles for thrombin detection in human plasma. <i>Analytical Chemistry</i> , 2011 , 83, 8130-7 $^{7.8}$	317
793	Protein-directed reduction of graphene oxide and intracellular imaging. 2011 , 47, 12658-60	54

792	Peptide-functionalized colloidal graphene via interdigited bilayer coating and fluorescence turn-on detection of enzyme. 2011 , 3, 3335-41	56
791	Graphene-Based Solid-Phase Extraction for a Sensitive Determination of Trace Amounts of Lead in Water Samples. 2011 , 1, 337-348	
790	A label-free DNA reduced graphene oxide-based fluorescent sensor for highly sensitive and selective detection of hemin. 2011 , 47, 4676-8	106
789	Transparent, luminescent, antibacterial and patternable film forming composites of graphene oxide/reduced graphene oxide. 2011 , 3, 2643-54	100
788	Label-free, regenerative and sensitive surface plasmon resonance and electrochemical aptasensors based on graphene. 2011 , 47, 7794-6	107
787	Synergistic pH effect for reversible shuttling aptamer-based biosensors between graphene oxide and target molecules. 2011 , 21, 8991	53
786	Efficient fluorescence resonance energy transfer between upconversion nanophosphors and graphene oxide: a highly sensitive biosensing platform. 2011 , 47, 4661-3	184
7 ⁸ 5	Green and facile synthesis of highly biocompatible graphene nanosheets and its application for cellular imaging and drug delivery. 2011 , 21, 12034	352
784	Adsorption and desorption of DNA on graphene oxide studied by fluorescently labeled oligonucleotides. 2011 , 27, 2731-8	422
7 ⁸ 3	Combined Covalent and Noncovalent Functionalization of Nanomagnetic Carbon Surfaces with Dendrimers and BODIPY Fluorescent Dye. 2011 , 23, 3606-3613	35
782	Electrochemical DNA sensor by the assembly of graphene and DNA-conjugated gold nanoparticles with silver enhancement strategy. 2011 , 136, 4732-7	86
781	Combination of Estacking and electrostatic repulsion between carboxylic carbon nanoparticles and fluorescent oligonucleotides for rapid and sensitive detection of thrombin. 2011 , 47, 11321-3	60
780	Graphene and graphene oxide: biofunctionalization and applications in biotechnology. 2011 , 29, 205-12	1150
779	Coupled fluorescein isothiocyanate on graphene oxide. 2011 , 65, 751-753	5
778	Low background signal platform for the detection of ATP: when a molecular aptamer beacon meets graphene oxide. <i>Biosensors and Bioelectronics</i> , 2011 , 29, 76-81	116
777	Aptamer biosensor for label-free square-wave voltammetry detection of angiogenin. <i>Biosensors and Bioelectronics</i> , 2011 , 30, 261-6	35
776	Graphene nanosheet: synthesis, molecular engineering, thin film, hybrids, and energy and analytical applications. 2011 , 40, 2644-72	1085
775	Interaction of peptides with graphene oxide and its application for real-time monitoring of protease activity. 2011 , 47, 2399-401	200

(2011-2011)

774	Aptamer in bioanalytical applications. <i>Analytical Chemistry</i> , 2011 , 83, 4440-52	7.8	608
773	Graphene-polymer composite: extraction of polycyclic aromatic hydrocarbons from samples by stir rod sorptive extraction. 2011 , 3, 92-98		97
772	Significant FRET between SWNT/DNA and rare earth ions: a signature of their spatial correlations. 2011 , 5, 6052-9		11
771	Graphene in biomedicine: opportunities and challenges. 2011 , 6, 317-24		572
770	Graphene-based hybrid materials and devices for biosensing. 2011 , 63, 1352-60		230
769	Pyrenebutyrate-functionalized graphene/poly(3-octyl-thiophene) nanocomposites based photoelectrochemical cell. 2011 , 656, 269-273		21
768	Recent applications of carbon-based nanomaterials in analytical chemistry: critical review. <i>Analytica Chimica Acta</i> , 2011 , 691, 6-17	6.6	328
767	Mesoporous carbon microparticles as a novel fluorescent sensing platform for thrombin detection. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 3876-80	11.8	17
766	Homogeneous detection of concanavalin A using pyrene-conjugated maltose assembled graphene based on fluorescence resonance energy transfer. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4497-502	11.8	73
765	Efficient analysis of non-polar environmental contaminants by MALDI-TOF MS with graphene as matrix. 2011 , 22, 1294-8		65
764	Graphene-based materials: synthesis, characterization, properties, and applications. 2011 , 7, 1876-902		1968
763	Chemical preparation of graphene-based nanomaterials and their applications in chemical and biological sensors. 2011 , 7, 2413-27		201
762	Aptamer-assembled nanomaterials for biosensing and biomedical applications. 2011 , 7, 2428-36		62
761	Graphene in biosensing. 2011 , 14, 308-315		621
760	Functional composite materials based on chemically converted graphene. 2011 , 23, 1089-115		859
759	A graphene-conjugated oligomer hybrid probe for light-up sensing of lectin and Escherichia coli. 2011 , 23, 4386-91		132
758	Biosensing Platform Based on Fluorescence Resonance Energy Transfer from Upconverting Nanocrystals to Graphene Oxide. 2011 , 123, 6983-6986		19
757	Biosensing platform based on fluorescence resonance energy transfer from upconverting nanocrystals to graphene oxide. 2011 , 50, 6851-4		269

756	Surface assembly of graphene oxide nanosheets on SiO2 particles for the selective isolation of hemoglobin. 2011 , 17, 4864-70	93
755	Facile synthesis of wide-bandgap fluorinated graphene semiconductors. 2011 , 17, 8896-903	112
754	Fabrication of polymeric ionic liquid/graphene nanocomposite for glucose oxidase immobilization and direct electrochemistry. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 2632-7	178
753	Palladium nanoparticle/chitosan-grafted graphene nanocomposites for construction of a glucose biosensor. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 3456-63	190
75 ²	Electrochemical detection of thrombin based on aptamer and ferrocenylhexanethiol loaded silica nanocapsules. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 3536-41	37
751	Fluorescence resonance energy transfer sensor between quantum dot donors and neutral red acceptors and its detection of BSA in micelles. 2011 , 91, 304-308	25
750	An aptamerBWNT biosensor for sensitive detection of protein via mediated signal transduction. 2011 , 13, 707-710	13
749	Magnetic retrieval of graphene: extraction of sulfonamide antibiotics from environmental water samples. 2011 , 1218, 1353-8	234
748	Sensitive detection of rutin based on Eyclodextrin@chemically reduced graphene/Nafion composite film. 2011 , 56, 5189-5194	69
747	Aptamer-based fluorescent biosensors. 2011 , 18, 4175-84	143
746	Prospects of Nanobiomaterials for Biosensing. 2011 , 2011, 1-30	40
745	Techniques related to graphene biosensors and their potential combination with optical fibres. 2011 , 26, 173-183	8
744	Versatile Graphene-Based Nano-Bio Probe Design and Its Application. 2012 , 27-38	
743	Nano-Bio Probe Design and Its Application for Biochemical Analysis. 2012 ,	1
742	Ultra-Amplification of Surface Plasmon Coupled Emission Using an Engineered Graphene-Silver Thin Film Hybrid. 2012 ,	1
741	Self-spreading of Supported Lipid Bilayer on SiO2Surface Bearing Graphene Oxide. 2012 , 41, 1259-1261	17
740	Graphene-based materials for biosensing and bioimaging. 2012 , 37, 1290-1296	43
739	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	98

738	Biomedical applications of graphene. 2012 , 2, 283-94		719
737	Application of graphene as a sorbent for preconcentration and determination of trace amounts of chromium(III) in water samples by flame atomic absorption spectrometry. 2012 , 4, 1110		57
736	Graphenes in chemical sensors and biosensors. 2012 , 39, 87-113		170
735	Fluorescence quenching of cationic organic dye by graphene: interaction and its mechanism. 2012 , 7, 608		25
734	Signal amplification architecture for electrochemical aptasensor based on network-like thiocyanuric acid/gold nanoparticle/ssDNA. <i>Biosensors and Bioelectronics</i> , 2012 , 38, 37-42	11.8	21
733	Signal-on architecture for electrochemical aptasensors based on multiple ion channels. <i>Analytical Chemistry</i> , 2012 , 84, 10554-9	7.8	12
732	Surface-Imprinting Sensor Based on Carbon Nanotubes/Graphene Composite for Determination of Bovine Serum Albumin. 2012 , 24, 2109-2116		37
731	Graphene-based aptamer logic gates and their application to multiplex detection. 2012 , 6, 6659-66		132
730	Immobilization-free screening of aptamers assisted by graphene oxide. 2012 , 48, 2071-3		126
729	A ligation-triggered highly sensitive fluorescent assay of adenosine triphosphate based on graphene oxide. 2012 , 137, 5506-9		14
728	p-Sulfonated calix[6]arene modified graphene as a 'turn on' fluorescent probe for L-carnitine in living cells. 2012 , 48, 4851-3		92
727	Graphene oxide as a nano-platform for ATP detection based on aptamer chemistry. 2012 , 4, 1662		43
726	Enrichment and detection of small molecules using magnetic graphene as an adsorbent and a novel matrix of MALDI-TOF-MS. 2012 , 48, 2418-20		106
7 2 5	Protein detection based on small molecule-linked DNA. <i>Analytical Chemistry</i> , 2012 , 84, 4314-20	7.8	126
724	Nitrogen-doped graphene stabilized gold nanoparticles for aerobic selective oxidation of benzylic alcohols. 2012 , 2, 12438		70
7 2 3	Electrochemiluminescent detection of mucin 1 protein and MCF-7 cancer cells based on the resonance energy transfer. 2012 , 137, 2101-6		87
722	A molecular light switch Ru complex and quantum dots for the label-free, aptamer-based detection of thrombin. 2012 , 137, 1550-2		22
721	A graphene oxide (GO)-based molecular beacon for DNA-binding transcription factor detection. 2012 , 4, 3655-9		42

720	A facile graphene oxide-based DNA polymerase assay. 2012 , 137, 3989-94		18
719	A simple adenosine fluorescent aptasensor based on the quenching ability of guanine. 2012 , 36, 2260		11
718	Applications and Nanotoxicity of Carbon Nanotubes and Graphene in Biomedicine. 2012 , 2012, 1-19		103
717	Pd nanowires as new biosensing materials for magnified fluorescent detection of nucleic acid. <i>Analytical Chemistry</i> , 2012 , 84, 3568-73	7.8	43
716	Highly fluorescent graphene oxide-poly(vinyl alcohol) hybrid: an effective material for specific Au3+ion sensors. 2012 , 4, 5576-82		119
715	Electrochemical logic aptasensor based on graphene. 2012 , 169, 255-260		17
714	Highly sensitive thrombin detection by matrix assisted laser desorption ionization-time of flight mass spectrometry with aptamer functionalized core-shell FeD (©Au magnetic microspheres. 2012, 88, 295-302		46
713	Fabrication of DNA/graphene/polyaniline nanocomplex for label-free voltammetric detection of DNA hybridization. 2012 , 88, 439-44		77
712	A novel label-free fluorescent sensor for the detection of potassium ion based on DNAzyme. 2012 , 89, 57-62		48
711	Graphene-based materials for catalysis. 2012 , 2, 54-75		791
710	Adsorption of DNA onto gold nanoparticles and graphene oxide: surface science and applications. 2012 , 14, 10485-96		286
709	Carbon nanotubes and graphene in analytical sciences. <i>Mikrochimica Acta</i> , 2012 , 179, 1-16	5.8	178
708	A nanoscale graphene oxide-peptide biosensor for real-time specific biomarker detection on the cell surface. 2012 , 48, 9768-70		90
707	Graphene-based solid-phase extraction combined with flame atomic absorption spectrometry for a sensitive determination of trace amounts of lead in environmental water and vegetable samples. <i>Analytica Chimica Acta</i> , 2012 , 716, 112-8	6.6	209
706	Graphene oxide-based biosensor for sensitive fluorescence detection of DNA based on exonuclease III-aided signal amplification. <i>Analytica Chimica Acta</i> , 2012 , 727, 67-70	6.6	75
705	Nanostructured carbon for energy storage and conversion. 2012 , 1, 195-220		797
704	Self-assembled complex of probe peptideE. Coli RNA I conjugate and nano graphene oxide for apoptosis diagnosis. 2012 , 33, 7556-64		20
703	A novel label-free electrochemical aptasensor based on graphene-polyaniline composite film for dopamine determination. <i>Biosensors and Bioelectronics</i> , 2012 , 36, 186-91	11.8	155

(2012-2012)

	Graphene oxide based fluorescent aptasensor for adenosine deaminase detection using adenosine as the substrate. <i>Biosensors and Bioelectronics</i> , 2012 , 37, 61-7	1.8	56
701	Nanoparticles in metal complexes-based electrogenerated chemiluminescence for highly sensitive applications. 2012 , 256, 1664-1681		77
700	Graphene: an emerging electronic material. 2012 , 24, 5782-825		603
699	A method to detect metal-drug complexes and their interactions with pathogenic bacteria via graphene nanosheet assist laser desorption/ionization mass spectrometry and biosensors. Analytica Chimica Acta, 2012 , 751, 94-104	5.6	65
698	A sensitive strategy for label-free and time-resolved fluorescence assay of thrombin using Tb-complex and unmodified gold nanoparticles. 2012 , 137, 5607-13		14
697	Aptamers and their biological applications. 2012 , 12, 612-31		493
696	Preparation of the hybrid film of poly(allylamine hydrochloride)-functionalized graphene oxide and gold nanoparticle and its application for laser-induced desorption/ionization of small molecules. 2012 , 28, 4453-8		45
695	An aptamer based on-plate microarray for high-throughput insulin detection by MALDI-TOF MS. 2012 , 48, 2689-91		35
694	Fast and sensitive dye-sensor based on fluorescein/reduced graphene oxide complex. 2012 , 137, 2593-9		29
693	A graphene oxide based biosensor for microcystins detection by fluorescence resonance energy transfer. <i>Biosensors and Bioelectronics</i> , 2012 , 38, 31-6	1.8	44
692	Graphene-based multilayers: Critical evaluation of materials assembly techniques. 2012, 7, 430-447		112
691	RECENT ADVANCES IN GRAPHENE-BASED NANOMATERIALS FOR BIOMEDICAL APPLICATIONS. 2012 , 02, 1230001		34
691 690			34
	2012, 02, 1230001 Aptamer-functionalized nano-pattern based on carbon nanotube for sensitive, selective protein		
690	2012, 02, 1230001 Aptamer-functionalized nano-pattern based on carbon nanotube for sensitive, selective protein detection. 2012, 22, 23348 A graphene oxide platform for the assay of biomolecules based on chemiluminescence resonance		30
690 689	Aptamer-functionalized nano-pattern based on carbon nanotube for sensitive, selective protein detection. 2012, 22, 23348 A graphene oxide platform for the assay of biomolecules based on chemiluminescence resonance energy transfer. 2012, 48, 106-8 Recent advances in nanoparticle-based Fister resonance energy transfer for biosensing, molecular		30 93
690 689 688	Aptamer-functionalized nano-pattern based on carbon nanotube for sensitive, selective protein detection. 2012, 22, 23348 A graphene oxide platform for the assay of biomolecules based on chemiluminescence resonance energy transfer. 2012, 48, 106-8 Recent advances in nanoparticle-based Fister resonance energy transfer for biosensing, molecular imaging and drug release profiling. 2012, 13, 16598-623 Visual and high-throughput detection of cancer cells using a graphene oxide-based FRET		30 93 106

684	Sensitive turn-on fluorescent detection of tartrazine based on fluorescence resonance energy transfer. 2012 , 48, 747-9		25
683	Computational Investigation on the Effect of Graphene Oxide Sheets as Nanofillers in Poly(vinyl alcohol)/Graphene Oxide Composites. 2012 , 116, 22532-22538		28
682	Multiplexed fluorescence resonance energy transfer aptasensor between upconversion nanoparticles and graphene oxide for the simultaneous determination of mycotoxins. <i>Analytical Chemistry</i> , 2012 , 84, 6263-70	.8	265
681	Functionalization of graphene by tetraphenylethylene using nitrene chemistry. 2012 , 2, 7042		25
68o	Influence of pH on the fluorescence properties of graphene quantum dots using ozonation pre-oxide hydrothermal synthesis. 2012 , 22, 25471		166
679	A graphene oxide-based fluorescent aptasensor for the turn-on detection of epithelial tumor marker mucin 1. 2012 , 4, 2054-9		134
678	A fluorescent sandwich assay for thrombin using aptamer modified magnetic beads and quantum dots. <i>Mikrochimica Acta</i> , 2012 , 178, 349-355	.8	17
677	Aptamer-based protein detection using a bioluminescent fusion protein. 2012 , 137, 5297-301		8
676	Fluorescent graphene oxide composites synthesis and its biocompatibility study. 2012, 22, 9308		49
675	Label-free and sensitive thrombin sensing on a molecularly grafted aptamer on graphene. 2012, 48, 738-4	0	59
674	Graphene oxide-protected DNA probes for multiplex microRNA analysis in complex biological samples based on a cyclic enzymatic amplification method. 2012 , 48, 194-6		177
673	Obstruction of photoinduced electron transfer from excited porphyrin to graphene oxide: a fluorescence turn-on sensing platform for iron (III) ions. 2012 , 7, e50367		30
672	DNA-length-dependent fluorescence signaling on graphene oxide surface. 2012 , 8, 977-83		118
671	Tunable biomolecular interaction and fluorescence quenching ability of graphene oxide: application to "turn-on" DNA sensing in biological media. 2012 , 8, 2469-76		54
670	Self-assembly of biofunctional polymer on graphene nanoribbons. 2012 , 6, 1011-7		16
669	Highly Efficient Fluorescence Quenching with Graphene. 2012 , 116, 2858-2862		115
668	Molecular beacon lighting up on graphene oxide. <i>Analytical Chemistry</i> , 2012 , 84, 4192-8	.8	137
667	Interface engineering catalytic graphene for smart colorimetric biosensing. 2012 , 6, 3142-51		226

666	Biological and chemical sensors based on graphene materials. 2012 , 41, 2283-307		1384
665	Graphene-based composites. 2012 , 41, 666-86		3116
664	Influence of the fetal bovine serum proteins on the growth of human osteoblast cells on graphene. 2012 , 100, 3001-7		28
663	Strategies for chemical modification of graphene and applications of chemically modified graphene. 2012 , 22, 12435		395
662	Duplex DNA/Graphene Oxide Biointerface: From Fundamental Understanding to Specific Enzymatic Effects. 2012 , 22, 3083-3088		115
661	Graphene oxide as an optical biosensing platform. 2012 , 24, 3298-308		398
660	Label-free homogeneous immunosensor based on FRET for the detection of virus antibody in serum. 2012 , 7, 1764-7		10
659	A strategy for dramatically enhancing the selectivity of molecules showing aggregation-induced emission towards biomacromolecules with the aid of graphene oxide. 2012 , 18, 7278-86		48
658	One-pot synthesized DNA-CdTe quantum dots applied in a biosensor for the detection of sequence-specific oligonucleotides. 2012 , 18, 8296-300		48
657	Industrial graphene metrology. 2012 , 4, 3807-19		19
656	Chemistry, physics and biology of graphene-based nanomaterials: new horizons for sensing, imaging and medicine. 2012 , 22, 14313		105
655	Fluorescent detection of cholesterol using Eyclodextrin functionalized graphene. 2012, 48, 7316-8		100
654	Excitation energy transfer from dye molecules to doped graphene#. 2012 , 124, 233-240		11
653	RETRACTED ARTICLE: Application of graphene as a sorbent for the preconcentration and determination of trace amounts of lead in water samples prior to flame atomic absorption spectrometry. <i>Mikrochimica Acta</i> , 2012 , 177, 497-497	5.8	1
652	Fluorescence detection of thrombin using autocatalytic strand displacement cycle reaction and a dual-aptamer DNA sandwich assay. 2012 , 421, 362-7		35
651	Simultaneous electrochemical detection of multiple analytes based on dual signal amplification of single-walled carbon nanotubes and multi-labeled graphene sheets. 2012 , 33, 1090-6		140
650	Gold nano particle decorated graphene core first generation PAMAM dendrimer for label free electrochemical DNA hybridization sensing. <i>Biosensors and Bioelectronics</i> , 2012 , 31, 406-12	11.8	72
649	A novel aptasensor based on silver nanoparticle enhanced fluorescence. <i>Biosensors and Bioelectronics</i> , 2012 , 32, 76-81	11.8	42

648	A novel biosensing strategy for screening G-quadruplex ligands based on graphene oxide sheets. <i>Biosensors and Bioelectronics</i> , 2012 , 34, 88-93	11.8	44
647	Label-free colorimetric sensor for ultrasensitive detection of heparin based on color quenching of gold nanorods by graphene oxide. <i>Biosensors and Bioelectronics</i> , 2012 , 34, 227-31	11.8	118
646	Fluorescent sensor based on a novel conjugated polyfluorene derivative. 2012, 95, 218-23		6
645	Synthesis of Fe3O4@phenol formaldehyde resin core-shell nanospheres loaded with Au nanoparticles as magnetic FRET nanoprobes for detection of thiols in living cells. 2012 , 18, 1154-60		48
644	Regulating Cellular Behavior on Few-Layer Reduced Graphene Oxide Films with Well-Controlled Reduction States. 2012 , 22, 751-759		167
643	Graphene-amplified electrogenerated chemiluminescence of CdTe quantum dots for H2O2 sensing. 2013 , 28, 259-64		25
642	Highly sensitive optical biosensor for thrombin based on structure switching aptamer-luminescent silica nanoparticles. 2013 , 23, 137-46		19
641	Fluorescent sensing ochratoxin A with single fluorophore-labeled aptamer. 2013 , 405, 6281-6		31
640	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
639	DNA Nanotechnology. 2013 ,		4
639 638	DNA Nanotechnology. 2013, Graphene oxide protected nucleic acid probes for bioanalysis and biomedicine. 2013, 19, 10442-51		36
638	Graphene oxide protected nucleic acid probes for bioanalysis and biomedicine. 2013 , 19, 10442-51 Highly sensitive reduced graphene oxide impedance sensor harnessing Estacking interaction	11.8	36
638 637	Graphene oxide protected nucleic acid probes for bioanalysis and biomedicine. 2013, 19, 10442-51 Highly sensitive reduced graphene oxide impedance sensor harnessing Estacking interaction mediated direct deposition of protein probes. 2013, 5, 3591-8 Amplified electrochemiluminescence detection of cancer cells using a new bifunctional quantum	11.8	36 35
638 637 636	Graphene oxide protected nucleic acid probes for bioanalysis and biomedicine. 2013 , 19, 10442-51 Highly sensitive reduced graphene oxide impedance sensor harnessing Estacking interaction mediated direct deposition of protein probes. 2013 , 5, 3591-8 Amplified electrochemiluminescence detection of cancer cells using a new bifunctional quantum dot as signal probe. <i>Biosensors and Bioelectronics</i> , 2013 , 50, 368-72 Synthesis of Fe3O4/graphene/TiO2 composites for the highly selective enrichment of	11.8	36 35 30
638 637 636	Graphene oxide protected nucleic acid probes for bioanalysis and biomedicine. 2013, 19, 10442-51 Highly sensitive reduced graphene oxide impedance sensor harnessing Estacking interaction mediated direct deposition of protein probes. 2013, 5, 3591-8 Amplified electrochemiluminescence detection of cancer cells using a new bifunctional quantum dot as signal probe. <i>Biosensors and Bioelectronics</i> , 2013, 50, 368-72 Synthesis of Fe3O4/graphene/TiO2 composites for the highly selective enrichment of phosphopeptides from biological samples. 2013, 5, 7330-4 Formation of a graphene oxide-DNA duplex-based logic gate and sensor mediated by RecA-ssDNA	11.8	36353068
638637636635634	Graphene oxide protected nucleic acid probes for bioanalysis and biomedicine. 2013, 19, 10442-51 Highly sensitive reduced graphene oxide impedance sensor harnessing Estacking interaction mediated direct deposition of protein probes. 2013, 5, 3591-8 Amplified electrochemiluminescence detection of cancer cells using a new bifunctional quantum dot as signal probe. <i>Biosensors and Bioelectronics</i> , 2013, 50, 368-72 Synthesis of Fe3O4/graphene/TiO2 composites for the highly selective enrichment of phosphopeptides from biological samples. 2013, 5, 7330-4 Formation of a graphene oxide-DNA duplex-based logic gate and sensor mediated by RecA-ssDNA nucleoprotein filaments. 2013, 49, 9971-3 Molecular design for enhanced sensitivity of a FRET aptasensor built on the graphene oxide	11.8	36 35 30 68 17

630	Detection of immunoglobulin E using an aptamer based dot-blot assay. 2013 , 58, 2938-2943		8
629	Amplified fluorescent assay of potassium ions using graphene oxide and a conjugated cationic polymer. 2013 , 138, 6301-4		12
628	A sensitive gold nanoparticles sensing platform based on resonance energy transfer for chemiluminescence light on detection of biomolecules. <i>Biosensors and Bioelectronics</i> , 2013 , 46, 119-23	ı . 8	26
627	A graphene oxide-based fluorescent biosensor for the analysis of peptide-receptor interactions and imaging in somatostatin receptor subtype 2 overexpressed tumor cells. <i>Analytical Chemistry</i> , 2013 , 85, 7732-7	8	63
626	Graphene oxide-induced conformation changes of glucose oxidase studied by infrared spectroscopy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 109, 115-20		33
625	Fluorescent assay for oxytetracycline based on a long-chain aptamer assembled onto reduced graphene oxide. <i>Mikrochimica Acta</i> , 2013 , 180, 829-835	8	48
624	A label free exonuclease III-aided fluorescence assay for adenosine triphosphate based on graphene oxide and ligation reaction. 2013 , 37, 927		20
623	A self-assemble aptamer fragment/target complex based high-throughput colorimetric aptasensor using enzyme linked aptamer assay. 2013 , 106, 309-14		31
622	Label-free fluorescent detection of thrombin activity based on a recombinant enhanced green fluorescence protein and nickel ions immobilized nitrilotriacetic acid-coated magnetic nanoparticles. 2013 , 116, 468-73		11
621	Ultrasensitive and fast fluorescent bioassay based on fluorescence enhancement of silver nanoparticles. 2013 , 138, 7376-83		12
620	A PDMS/paper/glass hybrid microfluidic biochip integrated with aptamer-functionalized graphene oxide nano-biosensors for one-step multiplexed pathogen detection. 2013 , 13, 3921-8		228
619	A label-free electrochemical aptasensor for sensitive thrombin detection in whole blood. 2013 , 106, 327-3	32	15
618	Aptamer-gold nanoparticle-based colorimetric assay for the sensitive detection of thrombin. 2013 , 177, 818-825		59
617	Microstructural and electrochemical impedance characterization of bio-functionalized ultrafine ZnS nanocrystals-reduced graphene oxide hybrid for immunosensor applications. 2013 , 5, 10494-503		27
616	Using the plasmon linewidth to calculate the time and efficiency of electron transfer between gold nanorods and graphene. 2013 , 7, 11209-17		158
615	A novel label-free fluorescence aptamer-based sensor method for cocaine detection based on isothermal circular strand-displacement amplification and graphene oxide absorption. 2013 , 37, 3998		41
614	Dual-aptamer-based sensitive and selective detection of prion protein through the fluorescence resonance energy transfer between quantum dots and graphene oxide. 2013 , 5, 6904		13
613	Excited state electron transfer from aminopyrene to graphene: a combined experimental and theoretical study. 2013 , 15, 19932-8		16

612	A new helicase assay based on graphene oxide for anti-viral drug development. 2013 , 35, 269-73		16
611	Materials for FRET Analysis: Beyond Traditional DyeDye Combinations. 2013 , 165-268		4
610	Graphene-based nanomaterials for nanobiotechnology and biomedical applications. 2013 , 8, 1669-88		86
609	Graphene-based nanocomposites: preparation, functionalization, and energy and environmental applications. 2013 , 6, 3483		422
608	Fluorescent detection of copper(II) based on DNA-templated click chemistry and graphene oxide. 2013 , 64, 299-304		17
60 7	Molecule-binding dependent assembly of split aptamer and Exyclodextrin: a sensitive excimer signaling approach for aptamer biosensors. <i>Analytica Chimica Acta</i> , 2013 , 799, 44-50	.6	19
606	Biomedical Applications of Nanomaterials: An Overview. 2013 , 1-32		11
605	Pyrene-imidazolium complexed graphene for the selective fluorescent detection of G-quadruplex forming DNA. 2013 , 49, 11698-700		7
604	A new strategy for designing a graphene oxide-based DNA hairpin probe: fluorescence upon switching the orientation of the sticky end. 2013 , 49, 9827-9		20
603	A graphene oxide platform for the assay of DNA 3'-phosphatases and their inhibitors based on hairpin primer and polymerase elongation. 2013 , 1, 361-367		24
602	Introducing novel amorphous carbon nanoparticles as energy acceptors into a chemiluminescence resonance energy transfer immunoassay system. 2013 , 138, 6753-8		11
601	Peptide nucleic acids are an additional class of aptamers. 2013 , 3, 5828		21
600	DNA-mediated homogeneous binding assays for nucleic acids and proteins. 2013 , 113, 2812-41		328
599	Amplified fluorescent sensing of DNA using graphene oxide and a conjugated cationic polymer. 2013 , 14, 117-23		65
598	Aptamer-based spectrofluorometry for cellular prion protein using N,N'-bis[3,3'-(dimethylamino)propylamine]-3,4,9,10-perylenetetracarboxylic diimide. 2013 , 138, 825-30		5
597	Ionic liquid/graphene oxide as a nanocomposite for improving the direct electrochemistry and electrocatalytic activity of glucose oxidase. 2013 , 17, 183-189		14
596	Biorecognition on graphene: physical, covalent, and affinity immobilization methods exhibiting dramatic differences. 2013 , 8, 198-203		30
595	Label-free sensing of thrombin based on quantum dots and thrombin binding aptamer. 2013 , 107, 140-5		17

(2013-2013)

594	An ultra-high sensitive platform for fluorescence detection of micrococcal nuclease based on graphene oxide. <i>Biosensors and Bioelectronics</i> , 2013 , 42, 467-73	11.8	32
593	Biomedical Applications of Carbon-Based Nanomaterials. 2013 , 443-463		2
592	Protein recognition on a single graphene oxide surface fixed on a solid support. 2013 , 1, 1119-1124		26
591	Biomedical applications of graphene and graphene oxide. 2013 , 46, 2211-24		1179
590	Label-free detection of microRNA: two-step signal enhancement with a hairpin-probe-based graphene fluorescence switch and isothermal amplification. 2013 , 19, 5487-94		36
589	Nanoreactors: a novel biosensing platform for protein assay. 2013 , 49, 1705-7		14
588	Graphene oxide/poly-L-lysine assembled layer for adhesion and electrochemical impedance detection of leukemia K562 cancer cells. <i>Biosensors and Bioelectronics</i> , 2013 , 42, 112-8	11.8	91
587	Simultaneous determination of uric acid, xanthine, hypoxanthine and caffeine in human blood serum and urine samples using electrochemically reduced graphene oxide modified electrode. Analytica Chimica Acta, 2013, 771, 14-20	6.6	108
586	Graphene oxide as a nanocarrier for loading and delivery of medicinal drugs and as a biosensor for detection of serum albumin. <i>Analytica Chimica Acta</i> , 2013 , 769, 40-8	6.6	36
585	A highly sensitive and selective aptasensor based on graphene oxide fluorescence resonance energy transfer for the rapid determination of oncoprotein PDGF-BB. 2013 , 138, 1726-32		51
584	Universal distance-scaling of nonradiative energy transfer to graphene. 2013 , 13, 2030-5		172
583	Nanostructured Sensors for Detection of Heavy Metals: A Review. 2013 , 1, 713-723		372
582	Graphene in light: design, synthesis and applications of photo-active graphene and graphene-like materials. 2013 , 9, 1266-83		105
581	Assembly of single-stranded polydeoxyadenylic acid and Eglucan probed by the sensing platform of graphene oxide based on the fluorescence resonance energy transfer and fluorescence anisotropy. 2013 , 138, 2661-8		7
580	A novel sensing strategy for the detection of Staphylococcus aureus DNA by using a graphene oxide-based fluorescent probe. 2013 , 138, 2749-54		24
579	Prospects and challenges of graphene in biomedical applications. 2013 , 25, 2258-68		497
578	Graphene-Based Nanomaterials: Synthesis, Properties, and Optical and Optoelectronic Applications. 2013 , 23, 1984-1997		212
577	Thermodynamics-hydration relationships within loops that affect G-quadruplexes under molecular crowding conditions. 2013 , 117, 963-72		19

576	Glutathione-functionalized graphene quantum dots as selective fluorescent probes for phosphate-containing metabolites. 2013 , 5, 1810-5	153
575	Graphene-Based Optical and Electrochemical Biosensors: A Review. 2013 , 46, 1-17	60
574	An amplified graphene oxide-based fluorescence aptasensor based on target-triggered aptamer hairpin switch and strand-displacement polymerization recycling for bioassays. <i>Biosensors and Bioelectronics</i> , 2013 , 42, 598-602	41
573	A Burn-offIluminescence resonance energy transfer aptamer sensor based on near-infrared upconverting NaYF4:Yb3+, Tm3+ nanoparticles as donors and gold nanorods as acceptors. <i>Chinese</i> 8.1 <i>Chemical Letters</i> , 2013 , 24, 79-81	13
572	Oxidation level-dependent zwitterionic liposome adsorption and rupture by graphene-based materials and light-induced content release. 2013 , 9, 1030-5	42
571	Detection of lead (II) with a "turn-on" fluorescent biosensor based on energy transfer from CdSe/ZnS quantum dots to graphene oxide. <i>Biosensors and Bioelectronics</i> , 2013 , 43, 69-74	192
570	Graphene-Orange II composite nanosheets with electroactive functions as label-free aptasensing platform for "signal-on" detection of protein. <i>Biosensors and Bioelectronics</i> , 2013 , 45, 95-101	34
569	Graphitic carbon-nanoparticle-based single-label nanobeacons. 2013 , 19, 8063-7	18
568	Label-free electrochemical impedance genosensor based on 1-aminopyrene/graphene hybrids. 2013 , 5, 5833-40	40
567	Efficient temperature sensing platform based on fluorescent block copolymer-functionalized graphene oxide. 2013 , 5, 5720-4	41
566	Synthesis of a biocompatible gelatin functionalized graphene nanosheets and its application for drug delivery. 2013 , 33, 2827-37	110
565	Magnetic graphitic nanocapsules for programmed DNA fishing and detection. 2013 , 9, 951-7	38
564	Application of Graphene-based Solid-Phase Extraction Coupled with Ultra High-performance Liquid Chromatography-Tandem Mass Spectrometry for Determination of Macrolides in Fish Tissues. 2013 , 6, 1448-1457	21
563	Aptamer-based turn-on detection of thrombin in biological fluids based on efficient phosphorescence energy transfer from Mn-doped ZnS quantum dots to carbon nanodots. 2013 , 19, 9242-50	56
562	Graphene oxide-peptide nanocomplex as a versatile fluorescence probe of protein kinase activity based on phosphorylation protection against carboxypeptidase digestion. <i>Analytical Chemistry</i> , 7.8 2013 , 85, 5746-54	82
561	Regulating infrared photoresponses in reduced graphene oxide phototransistors by defect and atomic structure control. 2013 , 7, 6310-20	89
560	Bioinspired prospects of graphene: from biosensing to energy. 2013 , 1, 3521-3534	24
559	Bipyrene-functionalized graphene as a "turn-on" fluorescence sensor for manganese(II) ions in living cells. 2013 , 5, 592-7	69

(2013-2013)

558	A label-free electrochemical biosensor based on a DNA aptamer against codeine. <i>Analytica Chimica Acta</i> , 2013 , 787, 203-10	6.6	49
557	Square wave anodic stripping voltammetry determination of lead based on the Hg(II) immobilized graphene oxide composite Im as an enhanced sensing platform. 2013 , 178, 379-384		26
556	An aptamer-gated silica mesoporous material for thrombin detection. 2013 , 49, 5480-2		84
555	Sensitive DNA biosensor improved by 1,10-phenanthroline cobalt complex as indicator based on the electrode modified by gold nanoparticles and graphene. 2013 , 176, 58-63		39
554	Nanomaterials for ultrasensitive protein detection. 2013 , 25, 3802-19		161
553	Label-free colorimetric aptasensor based on nicking enzyme assisted signal amplification and DNAzyme amplification for highly sensitive detection of protein. <i>Analytical Chemistry</i> , 2013 , 85, 4423-	30 ^{7.8}	127
552	Label-free impedimetric thrombin sensor based on poly(pyrrole-nitrilotriacetic acid)-aptamer film. <i>Biosensors and Bioelectronics</i> , 2013 , 41, 90-5	11.8	67
551	G-quadruplex DNA aptamers for zeatin recognizing. <i>Biosensors and Bioelectronics</i> , 2013 , 41, 157-62	11.8	36
550	"On-off" switchable electrochemical affinity nanobiosensor based on graphene oxide for ultrasensitive glucose sensing. <i>Biosensors and Bioelectronics</i> , 2013 , 41, 430-5	11.8	43
549	A universal immunosensing strategy based on regulation of the interaction between graphene and graphene quantum dots. 2013 , 49, 234-6		137
549 548		7.8	137 95
	Using graphene-based plasmonic nanocomposites to quench energy from quantum dots for	7.8	
548	Using graphene-based plasmonic nanocomposites to quench energy from quantum dots for signal-on photoelectrochemical aptasensing. <i>Analytical Chemistry</i> , 2013 , 85, 11720-4 Favorable adsorption of capped amino acids on graphene substrate driven by desolvation effect.	7.8	95
548 547	Using graphene-based plasmonic nanocomposites to quench energy from quantum dots for signal-on photoelectrochemical aptasensing. <i>Analytical Chemistry</i> , 2013 , 85, 11720-4 Favorable adsorption of capped amino acids on graphene substrate driven by desolvation effect. 2013 , 139, 174711 Highly selective and sensitive detection of coralyne based on the binding chemistry of aptamer and	7.8	95 35
548547546	Using graphene-based plasmonic nanocomposites to quench energy from quantum dots for signal-on photoelectrochemical aptasensing. <i>Analytical Chemistry</i> , 2013 , 85, 11720-4 Favorable adsorption of capped amino acids on graphene substrate driven by desolvation effect. 2013 , 139, 174711 Highly selective and sensitive detection of coralyne based on the binding chemistry of aptamer and graphene oxide. 2013 , 112, 117-22	7.8	95 35 31
548547546545	Using graphene-based plasmonic nanocomposites to quench energy from quantum dots for signal-on photoelectrochemical aptasensing. <i>Analytical Chemistry</i> , 2013 , 85, 11720-4 Favorable adsorption of capped amino acids on graphene substrate driven by desolvation effect. 2013 , 139, 174711 Highly selective and sensitive detection of coralyne based on the binding chemistry of aptamer and graphene oxide. 2013 , 112, 117-22 Advances in aptamer screening and small molecule aptasensors. 2014 , 140, 29-67 Control of the graphene-protein interface is required to preserve adsorbed protein function.		95 35 31 45
548547546545544	Using graphene-based plasmonic nanocomposites to quench energy from quantum dots for signal-on photoelectrochemical aptasensing. <i>Analytical Chemistry</i> , 2013 , 85, 11720-4 Favorable adsorption of capped amino acids on graphene substrate driven by desolvation effect. 2013 , 139, 174711 Highly selective and sensitive detection of coralyne based on the binding chemistry of aptamer and graphene oxide. 2013 , 112, 117-22 Advances in aptamer screening and small molecule aptasensors. 2014 , 140, 29-67 Control of the graphene-protein interface is required to preserve adsorbed protein function. <i>Analytical Chemistry</i> , 2013 , 85, 2754-9 Gold nanoparticle coupled with fluorophore for ultrasensitive detection of protamine and heparin.		9535314594

540	The Emerging Applications of Graphene Oxide and Graphene in Tissue Engineering. 2013 , 279-299	4
539	Highly tunable aptasensing microarrays with graphene oxide multilayers. 2013 , 3, 3367	36
538	Aptasensor for amplified IgE sensing based on fluorescence quenching by graphene oxide. 2013 , 28, 662-6	15
537	An electrochemical aptasensor based on the amplification of two kinds of gold nanocrystals for the assay of L-histidine with picomolar detection limit. 2013 , 24, 295501	6
536	Sensitive detection of prion protein through long range resonance energy transfer between graphene oxide and molecular aptamer beacon. 2013 , 5, 208-212	29
535	Recent advances and achievements in nanomaterial-based, and structure switchable aptasensing platforms for ochratoxin A detection. 2013 , 13, 15187-208	46
534	Fluorescence quenching studies on the interaction of riboflavin with tryptophan and its analytical application. 2013 , 28, 910-4	4
533	A Hairpin Electrochemical Aptasensor for Sensitive and Specific Detection of Thrombin Based on Homogenous Target Recognition. 2013 , 25, 1223-1229	9
532	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
531	Medical Nanobiosensors. 2014 , 117-143	
530	Plasma-Enabled Carbon Nanostructures for Early Diagnosis of Neurodegenerative Diseases. 2014 ,	
	7, 4896-4929	8
529		35
529 528	7, 4896-4929	
	7, 4896-4929 Gated Mesoporous SiO2 Nanoparticles Using K+-Stabilized G-Quadruplexes. 2014 , 24, 5662-5670	35
528	7, 4896-4929 Gated Mesoporous SiO2 Nanoparticles Using K+-Stabilized G-Quadruplexes. 2014, 24, 5662-5670 Influence of graphene on quality factor variation in a silicon ring resonator. 2014, 104, 091122 Extraction of aflatoxins from food samples using graphene-based magnetic nanosorbents followed by high-performance liquid chromatography: a simple solution to overcome the problems of	35 14
528 527	Gated Mesoporous SiO2 Nanoparticles Using K+-Stabilized G-Quadruplexes. 2014, 24, 5662-5670 Influence of graphene on quality factor variation in a silicon ring resonator. 2014, 104, 091122 Extraction of aflatoxins from food samples using graphene-based magnetic nanosorbents followed by high-performance liquid chromatography: a simple solution to overcome the problems of immunoaffinity columns. 2014, 37, 2566-73 Optoelectrochemical biorecognition by optically transparent highly conductive graphene-modified	35 14 20
528 527 526	Gated Mesoporous SiO2 Nanoparticles Using K+-Stabilized G-Quadruplexes. 2014, 24, 5662-5670 Influence of graphene on quality factor variation in a silicon ring resonator. 2014, 104, 091122 Extraction of aflatoxins from food samples using graphene-based magnetic nanosorbents followed by high-performance liquid chromatography: a simple solution to overcome the problems of immunoaffinity columns. 2014, 37, 2566-73 Optoelectrochemical biorecognition by optically transparent highly conductive graphene-modified fluorine-doped tin oxide substrates. 2014, 6, 22769-77 A reduced graphene oxide/Etyclodextrin hybrid for the detection of methionine: electrochemical,	35 14 20 15

Graphite oxide functionalized with ionic liquid and ruthenium as hydrogenation catalyst. **2014**, 39, 17492-1750 θ_4 522 Synthesis of petaloid graphene/polyethylene composite nanosheet produced by ethylene 521 10 polymerization with metallocene catalyst adsorbed on multilayer graphene. 2014, 232, 82-88 Biointerfacial impedance characterization of reduced graphene oxide supported carboxyl pendant 8 520 conducting copolymer based electrode. 2014, 123, 211-218 Intercalation strategies in clay/polymer hybrids. 2014, 39, 443-485 519 210 Improving the fluorescence detection limit with positively charged carbon nanostructures as a low 518 5 background signal platform. 2014, 139, 2114-7 Electrochemical behavior and voltammetric determination of ammonium dinitramide using a 517 graphene film modified glassy carbon electrode. 2014, 121, 315-320 Sensitive and selective DNA probe based on "turn-on" photoluminescence of C-dots@RGO. 2014, 516 7 406, 6917-23 Fluorescent aptasensor for the determination of Salmonella typhimurium based on a graphene 5.8 90 515 oxide platform. Mikrochimica Acta, 2014, 181, 647-653 Double stranded aptamer-anchored reduced graphene oxide as target-specific nano detector. 2014 514 32 , 35, 2999-3004 Carcino-embryonic antigen detection based on fluorescence resonance energy transfer between 11.8 513 quantum dots and graphene oxide. Biosensors and Bioelectronics, 2014, 59, 397-403 Direct synthesis of highly conductive poly(3,4-ethylenedioxythiophene):poly(4-styrenesulfonate) 328 512 (PEDOT:PSS)/graphene composites and their applications in energy harvesting systems. 2014, 7, 717-730 Chemical Functionalization of Graphene for Biomedical Applications. 2014, 95-138 511 The fabrication, characterisation and electrochemical investigation of screen-printed graphene 118 510 electrodes. 2014, 16, 4598-611 Aptamer binding assays for proteins: the thrombin example--a review. Analytica Chimica Acta, 2014, 6.6 264 509 837, 1-15 Novel trends in affinity biosensors: current challenges and perspectives. 2014, 25, 032001 508 59 Polyamidoamine dendrimer and oleic acid-functionalized graphene as biocompatible and efficient 89 507 gene delivery vectors. **2014**, 6, 8173-83 Functional nanoprobes for ultrasensitive detection of biomolecules: an update. 2014, 43, 1601-11 166 506 Graphene oxide-coumarin derivative conjugate as activatable nanoprobe for intracellular imaging 505 12 with one- or two-photon excitation. **2014**, 2, 1742-1750

504	Detection of the ovarian cancer biomarker CA-125 using chemiluminescence resonance energy transfer to graphene quantum dots. 2014 , 50, 1344-6	120
503	Nano-graphene oxide as a novel platform for monitoring the effect of LNA modification on nucleic acid interactions. 2014 , 139, 714-20	29
502	Two luminescent metal@rganic frameworks for the sensing of nitroaromatic explosives and DNA strands. 2014 , 2, 2213-2220	227
501	Facile synthesis of gold nanohexagons on graphene templates in Raman spectroscopy for biosensing cancer and cancer stem cells. <i>Biosensors and Bioelectronics</i> , 2014 , 55, 180-6	73
500	Biosensors Based on Aptamers and Enzymes. 2014 ,	6
499	A colorimetric aptamer biosensor based on cationic polymer and gold nanoparticles for the ultrasensitive detection of thrombin. <i>Biosensors and Bioelectronics</i> , 2014 , 56, 46-50	65
498	Fluorescent aptasensor based on aggregation-induced emission probe and graphene oxide. Analytical Chemistry, 2014 , 86, 298-303 7.8	83
497	Graphene materials-based energy acceptor systems and sensors. 2014 , 18, 1-17	35
496	A general strategy to create RNA aptamer sensors using "regulated" graphene oxide adsorption. 2014 , 6, 21806-12	28
495	Intracellular detection of ATP using an aptamer beacon covalently linked to graphene oxide resisting nonspecific probe displacement. <i>Analytical Chemistry</i> , 2014 , 86, 12229-35	138
494	Nanoscopic optical rulers beyond the FRET distance limit: fundamentals and applications. 2014 , 43, 6370-404	113
493	Low-temperature solution-processable Ni(OH)2 ultrathin nanosheet/N-graphene nanohybrids for high-performance supercapacitor electrodes. 2014 , 6, 5960-6	41
492	Noncovalent assembly of carbon nanoparticles and aptamer for sensitive detection of ATP. 2014 , 4, 38199-38	2 9 5
491	LiYF4:Yb3+, Er3+ upconverting submicro-particles: synthesis and formation mechanism exploration. 2014 , 4, 40223-40231	11
490	Amplified fluorescence sensing of miRNA by combination of graphene oxide with duplex-specific nuclease. 2014 , 6, 3598-3603	42
489	Graphene oxide for fluorescence-mediated enzymatic activity assays. 2014 , 2, 2452-2460	22
488	A base-modified PNA-graphene oxide platform as a turn-on fluorescence sensor for the detection of human telomeric repeats. 2014 , 6, 10460-9	22
487	A label-free fluorescent sensor for Pb2+ based on G-quadruplex and graphene oxide. 2014 , 6, 8120-8123	15

486	Robust detection of tyrosine phosphatase activity by coupling chymotrypsin-assisted selective peptide cleavage and a graphene oxide-based fluorescent platform. 2014 , 50, 8161-3		17
485	A turn-on fluorescent aptasensor for adenosine detection based on split aptamers and graphene oxide. 2014 , 139, 1843-6		49
484	Aptasensor for label-free square-wave voltammetry detection of potassium ions based on gold nanoparticle amplification. 2014 , 4, 48671-48675		8
483	An enzyme-aided amplification strategy for sensitive detection of DNA utilizing graphene oxide (GO) as a fluorescence quencher. 2014 , 139, 3455-9		15
482	Monitoring of trace amounts of heavy metals in different food and water samples by flame atomic absorption spectrophotometer after preconcentration by amine-functionalized graphene nanosheet. 2014 , 186, 7245-57		62
481	Graphene oxide sheets immobilized polystyrene for column preconcentration and sensitive determination of lead by flame atomic absorption spectrometry. 2014 , 6, 13257-65		59
480	Electrically regulated differentiation of skeletal muscle cells on ultrathin graphene-based films. 2014 , 4, 9534		52
479	Gold Nanoparticles-ECyclodextrin-Chitosan-Graphene Modified Glassy Carbon Electrode for Ultrasensitive Detection of Dopamine and Uric Acid. 2014 , 26, 2057-2064		11
47 ⁸	Interaction of single-stranded DNA with graphene oxide: fluorescence study and its application for S1 nuclease detection. 2014 , 4, 18294-18300		42
477	Fluorescent sensors using DNA-functionalized graphene oxide. 2014 , 406, 6885-902		102
476	Label-free voltammetric aptasensor for the sensitive detection of microcystin-LR using graphene-modified electrodes. <i>Analytical Chemistry</i> , 2014 , 86, 7551-7	7.8	105
475	In situ simultaneous monitoring of ATP and GTP using a graphene oxide nanosheet-based sensing platform in living cells. 2014 , 9, 1944-55		187
474	Highly sensitive and selective strategy for microRNA detection based on WS2 nanosheet mediated fluorescence quenching and duplex-specific nuclease signal amplification. <i>Analytical Chemistry</i> , 2014 , 86, 1361-5	7.8	311
473	Highly sensitive impedimetric aptasensor based on covalent binding of gold nanoparticles on reduced graphene oxide with good dispersity and high density. 2014 , 139, 5587-93		39
472	Dual-colored graphene quantum dots-labeled nanoprobes/graphene oxide: functional carbon materials for respective and simultaneous detection of DNA and thrombin. 2014 , 25, 415501		24
471	A turn-on fluorescence-sensing technique for glucose determination based on graphene oxide-DNA interaction. 2014 , 406, 6925-32		28
47°	Recent progress in graphene-material-based optical sensors. 2014 , 406, 6903-16		45
469	Electrochemiluminescence bioassay for thrombin based on dynamic assembly of aptamer, thrombin and N-(aminobutyl)-N-(ethylisoluminol) functionalized gold nanoparticles. 2014 , 125, 156-162		13

468	Hollow platinum decorated Fe3O4 nanoparticles as peroxidase mimetic couple with glucose oxidase for pseudobienzyme electrochemical immunosensor. 2014 , 193, 461-466		35
467	Graphene meets biology. 2014 , 59, 1341-1354		17
466	Magnetic binary metal oxides affinity probe for highly selective enrichment of phosphopeptides. 2014 , 6, 11775-82		44
465	Highly sensitive electrochemical aptasensor for immunoglobulin E detection based on sandwich assay using enzyme-linked aptamer. 2014 , 466, 89-97		38
464	Tyramine-based enzymatic conjugate repeats for ultrasensitive immunoassay accompanying tyramine signal amplification with enzymatic biocatalytic precipitation. <i>Analytical Chemistry</i> , 2014 , 86, 8352-8	7.8	106
463	Detection of microRNA in tumor cells using exonuclease III and graphene oxide-regulated signal amplification. 2014 , 6, 21780-7		42
462	Fabrication of dual sensitive titania (TiO2)/graphene oxide (GO) one-dimensional photonic crystals (1DPCs). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 452, 89-94	5.1	14
461	A graphene-based biosensing platform based on the release of DNA probes and rolling circle amplification. 2014 , 8, 5564-73		125
460	Quantum dots and graphene oxide fluorescent switch based multivariate testing strategy for reliable detection of Listeria monocytogenes. 2014 , 6, 9988-96		36
459	An extremely sensitive aptasensor based on interfacial energy transfer between QDS SAMs and GO. 2014 , 131, 288-93		7
458	Disposable electrochemical aptasensor array by using in situ DNA hybridization inducing silver nanoparticles aggregate for signal amplification. <i>Analytical Chemistry</i> , 2014 , 86, 2775-83	7.8	89
457	Stability of Nucleobases and Base Pairs Adsorbed on Graphyne and Graphdiyne. 2014 , 118, 4516-4528		48
456	Fluorescent Nanoprobes. 2014 , 49-74		
455	A novel fluorescence probing strategy based on mono-[6-(2-aminoethylamino)-6-deoxy]-Eyclodextin functionalized graphene oxide for the detection of amantadine. 2014 , 202, 323-329		17
454	Novel Optical Nanoprobes for Chemical and Biological Analysis. 2014,		4
453	Cytotoxicity assessment of MDA-MB-231 breast cancer cells on screen-printed graphene-carbon paste substrate. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 113, 190-7	6	22
452	Organic liquids-responsive Eyclodextrin-functionalized graphene-based fluorescence probe: label-free selective detection of tetrahydrofuran. 2014 , 19, 7459-79		33
451	Engineered 2D nanomaterialsprotein interfaces for efficient sensors. 2015 , 30, 3565-3574		8

450	Graphdiyne as a promising material for detecting amino acids. 2015 , 5, 16720	46
449	On-chip FRET Graphene Oxide Aptasensor: Quantitative Evaluation of Enhanced Sensitivity by Aptamer with a Double-stranded DNA Spacer. 2015 , 31, 875-9	14
448	Graphene-Oxide-Conjugated Polymer Hybrid Materials for Calmodulin Sensing by Using FRET Strategy. 2015 , 25, 4412-4418	44
447	Titanium Dioxide Nanoparticles (TiOI)Quenching Based Aptasensing Platform: Application to Ochratoxin A Detection. 2015 , 7, 3771-84	23
446	Biosensing with FEster Resonance Energy Transfer Coupling between Fluorophores and Nanocarbon Allotropes. 2015 , 15, 14766-87	27
445	A Graphene-Based Biosensing Platform Based on Regulated Release of an Aptameric DNA Biosensor. 2015 , 15, 28244-56	14
444	Simple Detection of the IS6110 Sequence of Mycobacterium tuberculosis Complex in Sputum, Based on PCR with Graphene Oxide. 2015 , 10, e0136954	12
443	Graphene electrode modified with electrochemically reduced graphene oxide for label-free DNA detection. <i>Biosensors and Bioelectronics</i> , 2015 , 72, 313-9	94
442	A novel exonuclease III-aided amplification assay based on a graphene platform for sensitive detection of adenosine triphosphate. 2015 , 7, 3708-3713	11
441	Graphene Nanocomposites in Optoelectronics. 2015 , 131-156	0
440	A biosensing platform for sensitive detection of concanavalin A based on fluorescence resonance energy transfer from CdTe quantum dots to graphene oxide. 2015 , 39, 6092-6098	20
439	Nanomaterials-Based Fluorimetric Methods for MicroRNAs Detection. 2015 , 8, 2809-2829	13
438	pH-Responsive Cyanine-Grafted Graphene Oxide for Fluorescence Resonance Energy Transfer-Enhanced Photothermal Therapy. 2015 , 25, 59-67	107
437	Aptamer-based fluorescent solid-phase thrombin assay using a silver-coated glass substrate and signal amplification by glucose oxidase. <i>Mikrochimica Acta</i> , 2015 , 182, 1849-1854	14
436	An aptamer-based single particle method for sensitive detection of thrombin using fluorescent quantum dots as labeling probes. 2015 , 144, 13-9	13
435	Biosensors based on molecular beacons. 2015 , 69,	37
434	Graphene-supported metal/metal oxide nanohybrids: synthesis and applications in heterogeneous catalysis. 2015 , 5, 3903-3916	105
433	Graphene and graphene-like 2D materials for optical biosensing and bioimaging: a review. 2015 , 2, 032004	106

432	Glassy carbon electrodes modified with gelatin functionalized reduced graphene oxide nanosheet for determination of gallic acid. 2015 , 38, 1711-1716		8
431	Highly sensitive fluorescent aptasensor for Salmonella paratyphi A via DNase I-mediated cyclic signal amplification. 2015 , 7, 10243-10250		17
430	Graphene-Assisted Label-Free Homogeneous Electrochemical Biosensing Strategy based on Aptamer-Switched Bidirectional DNA Polymerization. 2015 , 7, 28566-75		42
429	Magnetic Separation-Assistant Fluorescence Resonance Energy Transfer Inhibition for Highly Sensitive Probing of Nucleolin. <i>Analytical Chemistry</i> , 2015 , 87, 12183-9	7.8	22
428	Graphene-Based Glucose Sensors: A Brief Review. 2015 , 14, 818-34		30
427	Aptasensor for diabetes mellitus detection and monitoring. 2015,		1
426	Graphene Oxide: A Fertile Nanosheet for Various Applications. 2015 , 84, 121012		19
425	Enhanced fluorescence imaging guided photodynamic therapy of sinoporphyrin sodium loaded graphene oxide. 2015 , 42, 94-102		134
424	Nucleic acid aptamers in cancer research, diagnosis and therapy. 2015 , 44, 1240-56		165
423	A low-cost and simple paper-based microfluidic device for simultaneous multiplex determination of different types of chemical contaminants in food. <i>Biosensors and Bioelectronics</i> , 2015 , 68, 14-19	11.8	163
422	A facile one-pot synthesis of starch functionalized graphene as nano-carrier for pH sensitive and starch-mediated drug delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 128, 86-93	6	48
421	Polyaptamer DNA nanothread-anchored, reduced graphene oxide nanosheets for targeted delivery. 2015 , 48, 129-36		44
420	An exonuclease-assisted amplification electrochemical aptasensor of thrombin coupling "signal on/off" strategy. <i>Analytica Chimica Acta</i> , 2015 , 860, 70-6	6.6	18
419	Graphene for Amino Acid, Peptide, Protein, and Enzyme Detection. 2015 , 35-55		
418	Carboxyl-modified graphene for use in an immunoassay for the illegal feed additive clenbuterol using surface plasmon resonance and electrochemical impedance spectroscopy. <i>Mikrochimica Acta</i> , 2015 , 182, 855-862	5.8	23
417	Using G-quadruplex/hemin to "switch-on" the cathodic photocurrent of p-type PbS quantum dots: toward a versatile platform for photoelectrochemical aptasensing. <i>Analytical Chemistry</i> , 2015 , 87, 2892	-900	134
416	A facile approach for synthesizing molecularly imprinted graphene for ultrasensitive and selective electrochemical detecting 4-nitrophenol. <i>Analytica Chimica Acta</i> , 2015 , 864, 74-84	6.6	52
415	Applications of graphene and related nanomaterials in analytical chemistry. 2015 , 39, 2380-2395		59

(2015-2015)

414	An aptamer-based signal-on bio-assay for sensitive and selective detection of Kanamycin A by using gold nanoparticles. 2015 , 139, 226-32	64
413	Combining a loop-stem aptamer sequence with methylene blue: a simple assay for thrombin detection by resonance light scattering technique. 2015 , 5, 30268-30274	12
412	A label-free and time-resolved luminescence strategy for the detection of proteins based on DNA-Tb(3+) luminescence quenched by graphene oxide. 2015 , 140, 6386-91	12
411	Aptamer-functionalized CdTe:Zn2+ quantum dots for the detection of tomato systemin. 2015 , 7, 7748-7752	11
410	The graphene/nucleic acid nanobiointerface. 2015 , 44, 6954-80	153
409	A novel label-free and enzyme-free electrochemical aptasensor based on DNA in situ metallization. Biosensors and Bioelectronics, 2015, 74, 483-90	25
408	Electrochemical aptasensor based on one-step synthesis of Cu2O@aptamer nanospheres for sensitive thrombin detection. 2015 , 220, 184-191	18
4 ⁰ 7	Recent advances in graphene/polyamide 6 composites: a review. 2015 , 5, 61688-61702	51
406	Enzyme-guided plasmonic biosensor based on dual-functional nanohybrid for sensitive detection of thrombin. <i>Biosensors and Bioelectronics</i> , 2015 , 70, 404-10	30
405	Functionalization of Graphene Oxide and its Biomedical Applications. 2015 , 40, 291-315	124
404	Label-free aptamer biosensor for thrombin detection based on functionalized graphene nanocomposites. 2015 , 141, 247-52	58
403	Sorption of radionuclides from aqueous systems onto graphene oxide-based materials: a review. 2015 , 2, 593-612	137
402	Bare magnetic nanoparticles as fluorescence quenchers for detection of thrombin. 2015 , 140, 4114-20	24
401	Covalently Functionalized Graphene Composites: Mechanistic Study of Interfacial Fluorescence Quenching and Recovery Processes. 2015 , 119, 11327-11336	18
400	Facile fabrication of a three-dimensional gold nanowire array for high-performance electrochemical sensing. 2015 , 3, 3134-3140	21
399	Two dimensional nanosheets as conductive, flexible elements in biomaterials. 2015 , 3, 4959-4964	9
398	Graphene Oxide-Based Homogeneous Fluorescence Sensor for Multiplex Determination of Various Targets by a Multifunctional Aptamer. 2015 , 48, 1892-1906	9
397	Green synthesis of a bromocresol purple/graphene composite and its application in electrochemical determination of 2,4,6-trichlorophenol. 2015 , 7, 3178-3184	16

396	Graphene Oxide Based Nanocarrier Combined with a pH-Sensitive Tracer: A Vehicle for Concurrent pH Sensing and pH-Responsive Oligonucleotide Delivery. 2015 , 7, 11467-75		24
395	One-pot green synthesis of oxygen-rich nitrogen-doped graphene quantum dots and their potential application in pH-sensitive photoluminescence and detection of mercury(II) ions. 2015 , 142, 131-9		123
394	Nanomaterial-based biosensors using dual transducing elements for solution phase detection. 2015 , 140, 2916-43		27
393	Up-conversion fluorescence "off-on" switch based on heterogeneous core-satellite assembly for thrombin detection. <i>Biosensors and Bioelectronics</i> , 2015 , 70, 372-5	11.8	21
392	Large scale preparation of graphene quantum dots from graphite oxide in pure water via one-step electrochemical tailoring. 2015 , 5, 29704-29707		44
391	Visual detection of thrombin using a strip biosensor through aptamer-cleavage reaction with enzyme catalytic amplification. 2015 , 140, 7710-7		28
390	Aptamer/Graphene Quantum Dots Nanocomposite Capped Fluorescent Mesoporous Silica Nanoparticles for Intracellular Drug Delivery and Real-Time Monitoring of Drug Release. <i>Analytical Chemistry</i> , 2015 , 87, 11739-45	7.8	116
389	A graphene oxide-based fluorescent platform for selective detection of amyloid-lbligomers. 2015 , 7, 8727-8732		22
388	A time-resolved luminescent competitive assay to detect L-selectin using aptamers as recognition elements. <i>Analytica Chimica Acta</i> , 2015 , 887, 209-215	6.6	3
387	Graphene-based nanoprobes for molecular diagnostics. 2015 , 140, 6439-51		7
386	Nicking endonuclease-assisted signal amplification of a split molecular aptamer beacon for biomolecule detection using graphene oxide as a sensing platform. 2015 , 140, 7918-25		36
385	Reactive copolymer functionalized graphene sheet for enhanced mechanical and thermal properties of epoxy composites. 2015 , 53, 2776-2785		15
384	Peptide-assembled graphene oxide as a fluorescent turn-on sensor for lipopolysaccharide (endotoxin) detection. <i>Analytical Chemistry</i> , 2015 , 87, 9408-12	7.8	84
383	An electrochemical molecular recognition-based aptasensor for multiple protein detection. 2015 , 491, 31-6		9
382	Liposome-induced exfoliation of graphite to few-layer graphene dispersion with antibacterial activity. 2015 , 3, 6520-6527		27
381	A self-enhanced electrochemiluminescence immunosensor based on L-Lys-Ru(dcbpy)3(2+) functionalized porous six arrises column nanorods for detection of CA15-3. <i>Biosensors and Bioelectronics</i> , 2015 , 74, 924-30	11.8	37
380	Green fabricated reduced graphene oxide: evaluation of its application as nano-carrier for pH-sensitive drug delivery. 2015 , 496, 984-92		39
379	High performance system for protein assays: synergistic effect of terminal protection strategy and graphene oxide platform. 2015 , 5, 101327-101332		4

(2015-2015)

378	Construction of Plasmonic Core-Satellite Nanostructures on Substrates Based on DNA-Directed Self-Assembly as a Sensitive and Reproducible Biosensor. 2015 , 7, 27131-9		19
377	Dual tumor markers assay based on surface charged graphene. 2015 , 39, 1006-1012		2
376	Fabrication of graphene-isolated-Au-nanocrystal nanostructures for multimodal cell imaging and photothermal-enhanced chemotherapy. 2014 , 4, 6093		83
375	A novel VS2 nanosheet-based biosensor for rapid fluorescence detection of cytochrome c. 2015 , 39, 1892-1898		31
374	On-chip graphene oxide aptasensor for multiple protein detection. <i>Analytica Chimica Acta</i> , 2015 , 866, 1-9	6.6	36
373	Probing disease-related proteins with fluorogenic composite materials. 2015 , 44, 4239-4248		97
372	An ultrasensitive sensing strategy for the detection of lead (II) ions based on the intermolecular G-quadruplex and graphene oxide. 2015 , 208, 415-420		37
371	Fluorescent labels in biosensors for pathogen detection. 2015 , 35, 82-93		53
370	Interactions of DNA with graphene and sensing applications of graphene field-effect transistor devices: a review. <i>Analytica Chimica Acta</i> , 2015 , 853, 127-142	6.6	103
369	A new aptamer/graphene interdigitated gold electrode piezoelectric sensor for rapid and specific detection of Staphylococcus aureus. <i>Biosensors and Bioelectronics</i> , 2015 , 65, 314-9	11.8	159
368	C60 carboxyfullerene-based functionalised nanohybrids as signal-amplifying tags for the ultrasensitive electrochemical detection of procalcitonin. 2015 , 48, 156-61		29
367	Photoinduced electron transfer (PET) based label-free aptasensor for platelet-derived growth factor-BB and its logic gate application. <i>Biosensors and Bioelectronics</i> , 2015 , 63, 552-557	11.8	37
366	Selective determination of dimethoate via fluorescence resonance energy transfer between carbon dots and a dye-doped molecularly imprinted polymer. 2015 , 206, 14-21		62
365	Hyperbranched rolling circle amplification based electrochemiluminescence aptasensor for ultrasensitive detection of thrombin. <i>Biosensors and Bioelectronics</i> , 2015 , 63, 166-171	11.8	50
364	Nicking enzyme and graphene oxide-based dual signal amplification for ultrasensitive aptamer-based fluorescence polarization assays. <i>Biosensors and Bioelectronics</i> , 2015 , 63, 178-184	11.8	56
363	Amplified fluorescent aptasensor through catalytic recycling for highly sensitive detection of ochratoxin A. <i>Biosensors and Bioelectronics</i> , 2015 , 65, 16-22	11.8	77
362	Chemometrics: an important tool for monitoring interactions of vitamin B7 with bovine serum albumin with the aim of developing an efficient biosensing system for the analysis of protein. 2015 , 132, 354-65		49
361	Recent advances in aptasensors based on graphene and graphene-like nanomaterials. <i>Biosensors and Bioelectronics</i> , 2015 , 64, 373-85	11.8	148

360	Graphene oxide functionalization with aminocoumarin nanosheet fluorescent dye: Preparation, electrochemistry, spectroscopy and imaging in the living cells. 2015 , 113, 327-335	8
359	Graphene for separation and preconcentration of trace amounts of cobalt in water samples prior to flame atomic absorption spectrometry. 2016 , 20, S145-S152	21
358	The Potential Role of Graphene in Developing the Next Generation of Endomaterials. 2016 , 2016, 3180954	8
357	Bottom-Up Synthesis and Sensor Applications of Biomimetic Nanostructures. 2016 , 9,	36
356	A Novel Photoelectrochemical Biosensor for Tyrosinase and Thrombin Detection. 2016 , 16,	16
355	Synthesis, toxicity, biocompatibility, and biomedical applications of graphene and graphene-related materials. 2016 , 11, 1927-45	167
354	Progress in graphene-based optical and electrochemical aptasensors. 2016 , 393-431	1
353	A WS nanosheet-based nanosensor for the ultrasensitive detection of small molecule-protein interaction via terminal protection of small molecule-linked DNA and Nt.BstNBI-assisted recycling amplification. 2016 , 4, 5161-5166	16
352	Aptamer and PNIPAAm co-conjugated nanoparticles regulate activity of enzyme with different temperature. 2016 , 159, 47-54	9
351	Graphene oxide based nano-biosensor for the detection of deletion mutation in exon 19 of EGFR gene, leading to lung cancer. 2016 , 183, 441-443	16
350	Detection of lysozyme with aptasensor based on fluorescence resonance energy transfer from carbon dots to graphene oxide. 2016 , 31, 1207-1212	23
349	Graphene oxide surface blocking agents can increase the DNA biosensor sensitivity. 2016 , 11, 780-7	32
348	A hybrid system with highly enhanced graphene SERS for rapid and tag-free tumor cells detection. 2016 , 6, 25134	37
347	Graphene-Based Materials in Biosensing, Bioimaging, and Therapeutics. 2016 , 35-61	3
346	Graphene-Based Smart Nanomaterials: Novel Opportunities for Biology and Neuroengineering. 2016 , 191-218	
345	Graphene-based Materials in Health and Environment. 2016,	2
344	Micro/Nano Material-Based Biosensors. 2016 , 151-185	
343	Micro/Nano Cell and Molecular Sensors. 2016 ,	1

342	Biosensors. 2016 , 1-12	Ο
341	Sensitive detection of DNA methyltransferase activity based on supercharged fluorescent protein and template-free DNA polymerization. 2016 , 59, 809-815	5
340	Dual-Target Electrochemical Biosensing Based on DNA Structural Switching on Gold Nanoparticle-Decorated MoS2 Nanosheets. 2016 , 8, 6826-33	128
339	Nanoparticles and DNA - a powerful and growing functional combination in bionanotechnology. 2016 , 8, 9037-95	153
338	Deciphering the quenching mechanism of 2D MnO2 nanosheets towards Au nanocluster fluorescence to design effective glutathione biosensors. 2016 , 8, 3935-3940	45
337	Graphene-based nanosheets for delivery of chemotherapeutics and biological drugs. 2016 , 105, 205-227	146
336	Graphene based aptasensor for glycated albumin in diabetes mellitus diagnosis and monitoring. Biosensors and Bioelectronics, 2016, 82, 140-5	56
335	Graphene oxide-cationic polymer conjugates: Synthesis and application as gene delivery vectors. 2016 , 84-85, 51-60	31
334	Characterization and toxicological effects of three-dimensional graphene foams in rats in vivo. 2016 , 18, 1	14
333	Graphene FRET Aptasensor. 2016 , 1, 710-716	23
332	A sensitive polymeric dark quencher-based sensing platform for fluorescence Durn on Idetection of proteins. 2016 , 6, 42443-42446	6
331	Fast and single-step immunoassay based on fluorescence quenching within a square glass capillary immobilizing graphene oxide-antibody conjugate and fluorescently labelled antibody. 2016 , 141, 3389-94	13
330	A peptide with a cysteine terminus: probe for label-free fluorescent detection of thrombin activity. 2016 , 141, 4481-7	7
329	Self-powered triboelectric aptasensor for label-free highly specific thrombin detection. 2016 , 30, 77-83	24
328	Aptamers as functional bionanomaterials for sensor applications. 2016 , 181-226	3
327	Comparison of Graphene Oxide and Reduced Graphene Oxide for DNA Adsorption and Sensing. 2016 , 32, 10776-10783	101
326	A Nano-Biosensor for the Detection of 185delAG Mutation in BRCA1 Gene, Leading to Breast Cancer. 2016 , 34, 431-439	6
325	Simultaneous detection of Staphylococcus aureus and Salmonella typhimurium using multicolor time-resolved fluorescence nanoparticles as labels. 2016 , 237, 172-179	29

324	Graphene-Based Fluorescence-Quenching-Related Fermi Level Elevation and Electron-Concentration Surge. 2016 , 16, 5737-41	41
323	Synthetic methods and potential applications of transition metal dichalcogenide/graphene nanocomposites. 2016 , 326, 86-110	34
322	One-pot synthesis of strongly fluorescent DNA-CuInS quantum dots for label-free and ultrasensitive detection of anthrax lethal factor DNA. <i>Analytica Chimica Acta</i> , 2016 , 942, 86-95	12
321	Thermodynamics study of the noncovalent functionalization of surfactant suspended graphene nanosheets with porphyrin molecules. 2016 , 253, 2373-2376	1
320	Electrophoretic Deposition of Graphene-Based Materials and Their Energy-Related Applications. 2016 , 191-204	1
319	Proximity Binding and Metal Ion-Dependent DNAzyme Cyclic Amplification-Integrated Aptasensor for Label-Free and Sensitive Electrochemical Detection of Thrombin. <i>Analytical Chemistry</i> , 2016 , 88, 8218-23	105
318	Single-Molecule FRET Studies of the Hybridization Mechanism during Noncovalent Adsorption and Desorption of DNA on Graphene Oxide. 2016 , 120, 11628-11636	22
317	Enhanced Resolution of DNA Separation Using Agarose Gel Electrophoresis Doped with Graphene Oxide. 2016 , 11, 404	6
316	GRAPHENE-BASED NANOSYSTEMS FOR THE DETECTION OF PROTEINIC BIOMARKERS OF DISEASE. 2016 , 377-399	2
315	Exceedingly Higher co-loading of Curcumin and Paclitaxel onto Polymer-functionalized Reduced Graphene Oxide for Highly Potent Synergistic Anticancer Treatment. 2016 , 6, 32808	67
314	A highly flexible and conductive graphene-wrapped carbon nanofiber membrane for high-performance electrocatalytic applications. 2016 , 3, 969-976	12
313	Biosensors based on graphene oxide and its biomedical application. 2016 , 105, 275-287	218
312	A novel sensitive and selective nanocomposite sensor for Doxorubicin based on Graphene Oxide and fluorescent [2]Rotaxane. 2016 , 237, 380-386	8
311	Applications of graphene and its derivatives in intracellular biosensing and bioimaging. 2016 , 141, 4541-53	50
310	Fundamentals of Electronic Modication of Graphene by Si and H. 2016 , 371-388	
309	Graphene-Based DNA Sensors. 2016 , 13-26	2
308	Biomedical Applications of Graphene. 2016 , 41-56	
307	DNA-stabilized silver nanoclusters and carbon nanoparticles oxide: A sensitive platform for label-free fluorescence turn-on detection of HIV-DNA sequences. <i>Biosensors and Bioelectronics</i> , 11.8 2016 , 85, 837-843	7 ²

306	A self-assembling RNA aptamer-based graphene oxide sensor for the turn-on detection of theophylline in serum. <i>Biosensors and Bioelectronics</i> , 2016 , 86, 8-13	11.8	45
305	Aptamers in analytics. 2016 , 141, 1551-68		145
304	Solution processed graphene structures for perovskite solar cells. 2016 , 4, 2605-2616		62
303	A novel aptamer-mediated CuInS2 quantum dots@graphene oxide nanocomposites-based fluorescence Eurn offBnIhanosensor for highly sensitive and selective detection of kanamycin. 2016 , 6, 10205-10214		26
302	Interfacial nano-biosensing in microfluidic droplets for high-sensitivity detection of low-solubility molecules. 2016 , 52, 3470-3		39
301	Graphene oxide enhanced specificity at aptamer and its application to multiplexed enzymatic activity sensing. 2016 , 6, 11815-11821		6
300	Label-free and sensitive aptasensor based on dendritic gold nanostructures on functionalized SBA-15 for determination of chloramphenicol. 2016 , 408, 2557-65		29
299	A fluorescent graphitic carbon nitride nanosheet biosensor for highly sensitive, label-free detection of alkaline phosphatase. 2016 , 8, 4727-32		82
298	Energy Transfer from Quantum Dots to Graphene and MoS2: The Role of Absorption and Screening in Two-Dimensional Materials. 2016 , 16, 2328-33		140
297	Aptamers-based sandwich assay for silver-enhanced fluorescence multiplex detection. <i>Analytica Chimica Acta</i> , 2016 , 905, 149-55	5.6	26
296	Aptasensor based on fluorescence resonance energy transfer for the analysis of adenosine in urine samples of lung cancer patients. <i>Biosensors and Bioelectronics</i> , 2016 , 79, 334-40	11.8	37
295	Graphene for Biomedical Applications. 2016 , 241-267		
294	Carbon nanomaterials-based electrochemical aptasensors. <i>Biosensors and Bioelectronics</i> , 2016 , 79, 136-45	2 1.8	123
293	A highly sensitive strategy for base excision repair enzyme activity detection based on graphene oxide mediated fluorescence quenching and hybridization chain reaction. 2016 , 141, 96-9		21
292	Interaction of nucleobases with silicon doped and defective silicon doped graphene and optical properties. 2016 , 18, 295-309		27
291	Magnetism of aniline modified graphene-based materials. 2016 , 415, 45-50		4
290	A universal strategy for the facile synthesis of a sandwich-structured Ptgraphene P t nanocomposite for salbutamol sensing. 2016 , 40, 302-309		5
289	Label-free and enzyme-free detection of transcription factors with graphene oxide fluorescence switch-based multifunctional G-quadruplex-hairpin probe. <i>Biosensors and Bioelectronics</i> , 2016 , 75, 155-60	11.8	28

288	Simple synthesis of carboxyl-functionalized upconversion nanoparticles for biosensing and bioimaging applications. 2016 , 147, 207-12	25
287	An efficient strategy to assemble water soluble histidine-perylene diimide and graphene oxide for the detection of PPi in physiological conditions and in vitro. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 636- 644	25
286	The application of graphene for in vitro and in vivo electrochemical biosensing. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 224-233	54
285	Graphene and graphene-like two-denominational materials based fluorescence resonance energy transfer (FRET) assays for biological applications. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 123-135	116
284	Determination of Lysozyme by Graphene Oxide P olyethylene Glycol-Based Fluorescence Resonance Energy Transfer. 2017 , 50, 148-160	10
283	Fluorescent biosensors enabled by graphene and graphene oxide. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 96-106	155
282	A sub-picomolar assay for protein by using cubic CuO nanocages loaded with Au nanoparticles as robust redox probes and efficient non-enzymatic electrocatalysts. 2017 , 142, 794-799	9
281	Development of a single-step immunoassay microdevice based on a graphene oxide-containing hydrogel possessing fluorescence quenching and size separation functions. 2017 , 142, 472-477	5
2 80	Topotactic Conversion of FeO Nanowires into FeP as a Superior Fluorosensor for Nucleic Acid Detection: Insights from Experiment and Theory. <i>Analytical Chemistry</i> , 2017 , 89, 2191-2195	34
279	A novel fluorescent concanavalin A detection platform using an anti-concanavalin A aptamer and graphene oxide. 2017 , 9, 744-747	5
278	Graphene Oxide-Modified Electrode Coated with in-situ Antimony Film for the Simultaneous Determination of Heavy Metals by Sequential Injection-Anodic Stripping Voltammetry. 2017 , 29, 1022-1030	19
277	Development of aflatoxin B aptasensor based on wide-range fluorescence detection using graphene oxide quencher. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 154, 27-32	25
276	Graphene based sensors and biosensors. 2017 , 91, 53-66	307
275	Optical biosensors utilizing graphene and functional DNA molecules. 2017 , 32, 2973-2983	6
274	Highly-sensitive aptasensor based on fluorescence resonance energy transfer between l-cysteine capped ZnS quantum dots and graphene oxide sheets for the determination of edifenphos 11.8 fungicide. <i>Biosensors and Bioelectronics</i> , 2017 , 96, 324-331	48
273	Inhibition of Human Serum Albumin Fibrillation by Two-Dimensional Nanoparticles. 2017 , 121, 5474-5482	25
272	An Optically Modulated Self-Assembled Resonance Energy Transfer Pass Gate. 2017 , 17, 3775-3781	9
271	Reinforcing nanomedicine using graphene family nanomaterials. 2017 , 255, 218-230	34

270	Energy transfer from InSb quantum dot to graphene. 2017 , 109, 71-80	2
269	Development of FRET biosensor based on aptamer/functionalized graphene for ultrasensitive detection of bisphenol A and discrimination from analogs. 2017 , 10, 131-140	14
268	Aptamer-involved fluorescence amplification strategy facilitated by directional enzymatic hydrolysis for bioassays based on a metal-organic framework platform: Highly selective and sensitive determination of thrombin and oxytetracycline. <i>Mikrochimica Acta</i> , 2017 , 184, 2365-2373	40
267	Nanotechnology-Enhanced No-Wash Biosensors for in Vitro Diagnostics of Cancer. 2017 , 11, 5238-5292	156
266	Ultrasensitive electrochemical detection of H2O2 in living cells based on ultrathin MnO2 nanosheets. 2017 , 252, 72-78	63
265	Luminescent Zn(II) Coordination Polymers for Highly Selective Sensing of Cr(III) and Cr(VI) in Water. 2017 , 56, 4669-4679	172
264	Graphene based biosensorsAccelerating medical diagnostics to new-dimensions. 2017, 32, 2860-2882	71
263	Exfoliated graphene nanosheets: pH-sensitive drug carrier and anti-cancer activity. 2017 , 498, 364-377	32
262	Ionic liquid modified N-doped graphene as a potential platform for the electrochemical discrimination of DNA sequences. 2017 , 247, 556-563	15
261	Nanoparticles Modified ITO Based Biosensor. 2017 , 46, 2254-2268	14
260	Single-probe multistate detection of DNA via aggregation-induced emission on a graphene oxide platform. 2017 , 50, 334-343	25
259	Construction of iron-polymer-graphene nanocomposites with low nonspecific adsorption and strong quenching ability for competitive immunofluorescent detection of biomarkers in GM crops. 11.8 Biosensors and Bioelectronics, 2017 , 90, 321-328	11
258	In vitro selection of DNA aptamers targeting Elactoglobulin and their integration in graphene-based biosensor for the detection of milk allergen. <i>Biosensors and Bioelectronics</i> , 2017 , 91, 169-174	72
257	DNA covalently linked to graphene oxide for biotin-streptavidin interaction assay. 2017 , 163, 140-145	16
256	Structural Disruption of an Adenosine-Binding DNA Aptamer on Graphene: Implications for Aptasensor Design. 2017 , 2, 1602-1611	14
255	A new two-mode fluorescence signal amplification strategy for protease activity assay based on graphene oxide. 2017 , 7, 47983-47989	2
254	A novel, rapid, and sensitive homogeneous sandwich detection method of Glypican-3 as a serum marker for hepatocellular carcinoma. 2017 , 53, 12209-12212	5
253	Aptamer-based zearalenone assay based on the use of a fluorescein label and a functional graphene oxide as a quencher. <i>Mikrochimica Acta</i> , 2017 , 184, 4401-4408	42

252	N implantation induce cytocompatibility of shape-controlled three-dimensional self-assembly graphene. 2017 , 12, 2245-2255		4
251	Aptamer-based fluorometric determination of norovirus using a paper-based microfluidic device. <i>Mikrochimica Acta</i> , 2017 , 184, 4545-4552	5.8	50
250	Dual signal amplification strategy for amperometric aptasensing using hydroxyapatite nanoparticles. Application to the sensitive detection of the cancer biomarker platelet-derived growth factor BB. <i>Mikrochimica Acta</i> , 2017 , 184, 4375-4381	5.8	27
249	Graphene oxide@gold nanorods for chemo-photothermal treatment and controlled release of doxorubicin in mice Tumor. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 160, 543-552	6	20
248	Site-Selective Labeling of Chromium(III) as a Quencher on DNA for Molecular Beacons. 2017 , 82, 1224-1	230	6
247	WS and MoS biosensing platforms using peptides as probe biomolecules. 2017 , 7, 10290		26
246	Noncovalent functionalization of graphene oxide and reduced graphene oxide with Schiff bases as antibacterial agents. 2017 , 242, 812-821		21
245	Novel application of fluorescence coupled capillary electrophoresis to resolve the interaction between the G-quadruplex aptamer and thrombin. 2017 , 40, 3161-3167		7
244	Highly Sensitive Fluorometric Turn-On Detection of Lysozyme Based on a Graphene Oxide/ssDNA Assembly. 2017 , 17, 5431-5436		9
243	Molecular Self-Assembly for Nanobiomaterial Fabrication. 2017 , 107-141		
242	Polyethylenimine-coated FeO nanoparticles effectively quench fluorescent DNA, which can be developed as a novel platform for protein detection. 2017 , 9, 17699-17703		12
241	A colorimetric aptamer biosensor based on cationic polythiophene derivative as peroxidase mimetics for the ultrasensitive detection of thrombin. 2017 , 175, 224-228		28
240	Reduced graphene oxide as a resonance light-scattering probe for thrombin detection using dual-aptamer-based dsDNA. <i>Analytica Chimica Acta</i> , 2017 , 985, 141-147	6.6	13
239	Chemical functionalization and characterization of graphene-based materials. 2017 , 46, 4464-4500		285
238	A Fluorescence Quenching Study of Naphthalimide Dye by Graphene: Mechanism and Thermodynamic Properties. 2017 , 27, 1877-1883		10
237	Enhanced fluorescence of tetrasulfonated zinc phthalocyanine by graphene quantum dots and its application in molecular sensing/imaging. 2017 , 32, 573-580		7
236	Emerging Approaches for Graphene Oxide Biosensor. <i>Analytical Chemistry</i> , 2017 , 89, 232-248	7.8	84
235	A graphene oxide-based multiplexed fluorescence assay for the detection of protein kinase activity in cell lysates and the evaluation of protein kinase inhibition. 2017 , 238, 908-916		9

234 Biosensing Based on Surface- Enhanced Raman Spectroscopy. **2017**, 111-156

233	Novel single-stranded DNA binding protein-assisted fluorescence aptamer switch based on FRET for homogeneous detection of antibiotics. <i>Biosensors and Bioelectronics</i> , 2017 , 87, 508-513	11.8	41
232	Aptamer-assembled nanomaterials for fluorescent sensing and imaging. <i>Nanophotonics</i> , 2017 , 6, 109-1	26.3	33
231	A novel fluorescent DNA sensor for ultrasensitive detection of Helicobacter pylori. <i>Biosensors and Bioelectronics</i> , 2017 , 87, 66-72	11.8	48
230	Fast and Single-step Fluorescence-based Competitive Bioassay Microdevice Combined PDMS Microchannel Arrays Separately Immobilizing Graphene Oxide-Analyte Conjugates and Fluorescently-labelled Receptor Proteins. 2017 , 33, 969-972		7
229	Luminescence-Based Optical Sensors Fabricated by Means of the Layer-by-Layer Nano-Assembly Technique. 2017 , 17,		14
228	Fluorescence Sensing Using DNA Aptamers in Cancer Research and Clinical Diagnostics. 2017, 9,		51
227	Graphene composites with proteins and biologics. 2017 , 155-186		1
226	Fluorescence Sensing With Functional Nucleic Acids. 2017 , 227-236		
225	Graphene-based aptasensors: from molecule-interface interactions to sensor design and biomedical diagnostics. 2018 , 143, 1526-1543		64
224	Unveiling the Interaction of Duplex DNA with Graphene Oxide in the Presence of Two Diverse Binders: A Detailed Photophysical Study. 2018 , 122, 6876-6888		15
223	Controlled synthesis of lithium doped tin dioxide nanoparticles by a polymeric precursor method and analysis of the resulting defect structure. 2018 , 6, 6299-6308		18
222	Design, fabrication and characterization of multi-layer graphene reinforced nanostructured functionally graded cemented carbides. 2018 , 750, 972-979		16
221	Truncated aptamers for total and glycated hemoglobin, and their integration into a graphene oxide-based fluorometric method for high-throughput screening for diabetes. <i>Mikrochimica Acta</i> , 2018 , 185, 256	5.8	17
220	Development and characterization of DNA aptamers against florfenicol: Fabrication of a sensitive fluorescent aptasensor for specific detection of florfenicol in milk. 2018 , 182, 193-201		35
219	Evaluation of the osteogenesis and osseointegration of titanium alloys coated with graphene: an in vivo study. 2018 , 8, 1843		41
218	Target binding and DNA hybridization-induced gold nanoparticle aggregation for colorimetric detection of thrombin. 2018 , 262, 733-738		26
217	DNA-hosted copper nanoclusters/graphene oxide based fluorescent biosensor for protein kinase activity detection. <i>Analytica Chimica Acta</i> , 2018 , 1012, 66-73	6.6	36

216	Fluorometric graphene oxide-based detection of Salmonella enteritis using a truncated DNA aptamer. <i>Mikrochimica Acta</i> , 2017 , 185, 61	5.8	43
215	Highly sensitive sensing of glutathione based on FEster resonance energy transfer between MoS2 donors and Rhodamine 6G acceptors and its insight. 2018 , 259, 980-989		13
214	Fluorescent and colorimetric dual-mode aptasensor for thrombin detection based on target-induced conjunction of split aptamer fragments. 2018 , 180, 76-80		28
213	Making graphene luminescent by adsorption of an amphiphilic europium complex. 2018 , 112, 173103		7
212	The aptamer-thrombin-aptamer sandwich complex-bridged gold nanoparticle oligomers for high-precision profiling of thrombin by dark field microscopy. <i>Analytica Chimica Acta</i> , 2018 , 1028, 66-76	6.6	12
211	Colorimetric Detection of Carcinogenic Aromatic Amine Using Layer-by-Layer Graphene Oxide/Cytochrome c Composite. 2018 , 10, 11350-11360		5
210	A high-sensitivity electrochemical aptasensor of carcinoembryonic antigen based on graphene quantum dots-ionic liquid-nafion nanomatrix and DNAzyme-assisted signal amplification strategy. <i>Biosensors and Bioelectronics</i> , 2018 , 99, 28-33	11.8	99
209	When stem cells meet graphene: Opportunities and challenges in regenerative medicine. 2018 , 155, 236-250		181
208	Aptamer-functionalized carbon nanomaterials electrochemical sensors for detecting cancer relevant biomolecules. 2018 , 129, 380-395		100
207	A graphene oxide nanosensor enables the co-delivery of aptamer and peptide probes for fluorescence imaging of a cascade reaction in apoptotic signaling. 2017 , 143, 208-214		4
206	Ultrasensitive detection of thrombin based on MoS2-aptamer biosensors by resonance light scattering technique. 2018 , 258, 402-407		10
205	An evaluation of the effect of graphene oxide on Saccharomyces cerevisiae. 2018 , 12, 1050-1055		
204	Hierarchical Porous Fluorinated Graphene Oxide@Metal-Organic Gel Composite: Label-Free Electrochemical Aptasensor for Selective Detection of Thrombin. 2018 , 10, 41089-41097		31
203	Quenched Stochastic Optical Reconstruction Microscopy (qSTORM) with Graphene Oxide. 2018 , 8, 1692	.8	4
202	Reduced Graphene Oxide-Oligonucleotide Interfaces: Understanding Based on Electrochemical Oxidation of Guanines. 2018 , 3, 15464-15470		2
201	A Label-free Resonance Rayleigh Scattering Sensor for Detection of Thrombin Based on Aptamer Recognizing. 2018 , 34, 881-886		5
200	A fluorometric aptasensor for patulin based on the use of magnetized graphene oxide and DNase I-assisted target recycling amplification. <i>Mikrochimica Acta</i> , 2018 , 185, 487	5.8	24
199	Universal TiC MXenes Based Self-Standard Ratiometric Fluorescence Resonance Energy Transfer Platform for Highly Sensitive Detection of Exosomes. <i>Analytical Chemistry</i> , 2018 , 90, 12737-12744	7.8	156

198	An Ultrasensitive IDn-Off-OnIPhotoelectrochemical Thrombin Aptasensor Based on Perylene Tetracarboxylic Acid/Gold Nanoparticles/Cadmium Sulfide Quantum Dots Amplified Matrix. 2018 , 165, B679-B685		4
197	Role of advanced nanomaterials in biosensing. 2018 , 201-227		
196	5. Energy Transfer in Liquid and Solid Nanoobjects: Application in Luminescent Analysis. 2018 , 131-162		
195	Bioinspired Synergy Sensor Chip of Photonic Crystals-Graphene Oxide for Multiamines Recognition. <i>Analytical Chemistry</i> , 2018 , 90, 6371-6375	7.8	11
194	Substrate effect on electrical conductance at a nanoasperity-graphene contact. 2018, 137, 118-124		13
193	A turn-on fluorescent sensor for Hg2+ detection based on graphene oxide and DNA aptamers. 2018 , 42, 11147-11152		23
192	Biomedical Applications of Graphene Nanomaterials and Beyond. 2018, 4, 2653-2703		123
191	Aptamer proximity recognition-dependent strand translocation for enzyme-free and amplified fluorescent detection of thrombin via catalytic hairpin assembly. <i>Analytica Chimica Acta</i> , 2018 , 1038, 126-131	6.6	21
190	A peptide-WS nanosheet based biosensing platform for determination of Becretase and screening of its inhibitors. 2018 , 143, 4585-4591		12
189	Optoelectronics Based Dynamic Advancement of Graphene: Characteristics and Applications. 2018 , 8, 171		5
188	Supercapacitor study of reduced graphene oxide/Zn nanoparticle/polycarbazole electrode active materials and equivalent circuit models. 2018 , 22, 3261-3271		16
187	Detection of Thrombin Based on Fluorescence Energy Transfer between Semiconducting Polymer Dots and BHQ-Labelled Aptamers. 2018 , 18,		9
186	Phospholipid-Tailored Titanium Carbide Nanosheets as a Novel Fluorescent Nanoprobe for Activity Assay and Imaging of Phospholipase D. <i>Analytical Chemistry</i> , 2018 , 90, 6742-6748	7.8	35
185	A Label-free Fluorescent Aptasensor for Turn-on Monitoring Ochratoxin A Based on AIE-active Probe and Graphene Oxide. 2018 , 34, 363-368		15
184	A dual-channel homogeneous aptasensor combining colorimetric with electrochemical strategy for thrombin. <i>Biosensors and Bioelectronics</i> , 2018 , 120, 15-21	11.8	23
183	Electrochemiluminescent aptasensor for thrombin using nitrogen-doped graphene quantum dots. <i>Mikrochimica Acta</i> , 2018 , 185, 430	5.8	13
182	Resonant energy transfer in a van der Waals stacked MoS - functionalized graphene quantum dot composite with ab initio validation. 2018 , 10, 16822-16829		6
181	Voltammetric aptasensor for thrombin by using a gold microelectrode modified with graphene oxide decorated with silver nanoparticles. <i>Mikrochimica Acta</i> , 2018 , 185, 407	5.8	8

180	A fluorescent biosensor based on molybdenum disulfide nanosheets and protein aptamer for sensitive detection of carcinoembryonic antigen. 2018 , 273, 185-190	50
179	Dual-stimuli-responsive TiO /DOX nanodrug system for lung cancer synergistic therapy 2018 , 8, 21975-2198	4 15
178	Biomedical Applications of Graphene. 2018 , 215-232	10
177	Graphene and graphene oxide as nanomaterials for medicine and biology application. 2018 , 8, 123-137	201
176	Stability, Cellular Uptake, and in Vivo Tracking of Zwitterion Modified Graphene Oxide as a Drug Carrier. 2019 , 35, 1495-1502	12
175	Doped Graphene Quantum Dots for Intracellular Multicolor Imaging and Cancer Detection. 2019 , 5, 4671-468	238
174	Two-Dimensional Graphene Family Material: Assembly, Biocompatibility and Sensors Applications. 2019 , 19,	18
173	Molecularly imprinted mesoporous silica incorporating CN dots and CdTe quantum dots as ratiometric fluorescent probe for determination of Malachite Green. <i>Mikrochimica Acta</i> , 2019 , 186, 556 $^{5.8}$	9
172	Two-dimensional nanomaterials for biosensing applications. 2019 , 119, 115610	59
171	Detection of BRCA1 gene on partially reduced graphene oxide biosensors. 2019 , 216, 111093	11
170	Electrochemical Sensing Platform Based on Graphene-Metal/Metal Oxide Hybrids for Detection of Metal Ions Contaminants. 2019 , 301-327	2
169	G-Quadruplex-Based Fluorescent Turn-On Ligands and Aptamers: From Development to Applications. 2019 , 24,	36
168	Mn-Assisted DNA Oligonucleotide Adsorption on TiC MXene Nanosheets. 2019 , 35, 9858-9866	21
167	An Enzyme- and Label-Free Fluorescence Aptasensor for Detection of Thrombin Based on Graphene Oxide and G-Quadruplex. 2019 , 19,	6
166	State-of-the-art advancements in studies and applications of graphene: a comprehensive review. 2019 , 6, 100026	5
165	Millisecond-Timescale, High-Efficiency Modulation of Upconversion Luminescence by Photochemically Derived Graphene. 2019 , 7, 1901345	3
164	Graphene-Based Electrochemical Aptasensors. 2019 , 465-482	1
163	Self-Assembled Thin Films of Graphene Materials for Sensors. 2019 , 569-602	

162	Graphene-Based Materials for Implants. 2019 , 143-175	0
161	Laser Direct-Writing Graphene Oxide to Graphene Mechanisms to Applications. 2019 , 237-287	О
160	Self- and Directed-Assembly of Metallic and Nonmetallic Fluorophors: Considerations into Graphene and Graphene Oxides for Sensing and Imaging Applications. 2019 , 469-505	1
159	Perspective on the Future Role of Aptamers in Analytical Chemistry. <i>Analytical Chemistry</i> , 2019 , 91, 15335ুপ্ত চ	34 ₄
158	A turn-on graphene quantum dot and graphene oxide based fluorometric aptasensor for the determination of telomerase activity. <i>Mikrochimica Acta</i> , 2019 , 186, 785	6
157	Competitive aptasensor with gold nanoparticle dimers and magnetite nanoparticles for SERS-based determination of thrombin. <i>Mikrochimica Acta</i> , 2019 , 186, 747	13
156	A review on exfoliation, characterization, environmental and energy applications of graphene and graphene-based composites. 2019 , 273, 102036	41
155	Graphenedye hybrid optical sensors. 2019 , 17, 194-217	17
154	Nanomaterials for Use in Apta-Assays. 2019 , 243-271	1
153	Duplexed aptamers: history, design, theory, and application to biosensing. 2019 , 48, 1390-1419	89
152	Graphene Oxide as a Multifunctional Platform for Intracellular Delivery, Imaging, and Cancer Sensing. 2019 , 9, 416	63
151	An "off-on" phosphorescent aptasensor for the detection of thrombin based on PRET. 2018 , 144, 161-171	13
150	Coumaringraphene turn-on fluorescent probe for femtomolar level detection of copper(II). 2019 , 43, 1001-1008	11
149	Optical Nanosensors for Pharmaceutical Detection. 2019 , 119-140	2
148	A graphene oxide-based fluorescent sensor for recognition of glutamate in aqueous solutions and bovine serum. 2019 , 221, 117204	1
147	Biosensor technologies based on nanomaterials. 2019 , 181-242	7
146	Application of FEster Resonance Energy Transfer (FRET) technique to elucidate intracellular and In Vivo biofate of nanomedicines. 2019 , 143, 177-205	58
145	Eriochrome Black T sensing using silver nanoparticle-reduced graphene oxide composite via luminescent Burn-offImechanism and its biosorption on guava (Psidium guajava) leaf powder.	2

144	Opto-thermally Excited Fabry-Perot Resonance Frequency Behaviors of Clamped Circular Graphene Membrane. 2019 , 9,		1
143	Systematic truncating of aptamers to create high-performance graphene oxide (GO)-based aptasensors for the multiplex detection of mycotoxins. 2019 , 144, 3826-3835		9
142	A FRET assay for the quantitation of inhibitors of exonuclease EcoRV by using parchment paper inkjet-printed with graphene oxide and FAM-labelled DNA. <i>Mikrochimica Acta</i> , 2019 , 186, 211	5.8	6
141	Biomedical application of graphenes. 2019 , 319-339		4
140	Proximity ligation assay induced hairpin to DNAzyme structure switching for entropy-driven amplified detection of thrombin. <i>Analytica Chimica Acta</i> , 2019 , 1064, 104-111	6.6	9
139	Fluorescent DNA Biosensor for Single-Base Mismatch Detection Assisted by Cationic Comb-Type Copolymer. 2019 , 24,		4
138	An aptamer-based four-color fluorometic method for simultaneous determination and imaging of alpha-fetoprotein, vascular endothelial growth factor-165, carcinoembryonic antigen and human epidermal growth factor receptor 2 in living cells. <i>Mikrochimica Acta</i> , 2019 , 186, 204	5.8	19
137	The synthesis of rGO, rGO/RuO2 and rGO/RuO2/PVK nanocomposites, and their supercapacitors. 2019 , 787, 851-864		16
136	Functionalized nanographene oxide in biomedicine applications: bioinspired surface modifications, multidrug shielding, and site-specific trafficking. 2019 , 24, 749-762		6
135	Precisely Defined Conjugated Oligoelectrolytes for Biosensing and Therapeutics. 2019 , 31, e1806701		36
134	Plasmon-Enhanced Fluorescence Resonance Energy Transfer. 2019 , 19, 818-842		15
133	The synergistic effect of Au-COF nanosheets and artificial peroxidase Au@ZIF-8(NiPd) rhombic dodecahedra for signal amplification for biomarker detection. 2019 , 11, 20221-20227		18
132	Research Progress of the Liquid-Phase Exfoliation and Stable Dispersion Mechanism and Method of Graphene. 2019 , 6,		15
131	Carbon Nanomaterials. 2019 , 3-38		3
130	A split aptamer-labeled ratiometric fluorescent biosensor for specific detection of adenosine in human urine. <i>Mikrochimica Acta</i> , 2018 , 186, 43	5.8	11
129	An ultrasensitive homogeneous aptasensor for carcinoembryonic antigen based on upconversion fluorescence resonance energy transfer. 2019 , 195, 33-39		33
128	Wet Functionalization of Graphene and Its Applications in Rubber Composites. 2019 , 285-322		1
127	Ultrasensitive DNA biosensor based on electrochemical atom transfer radical polymerization. <i>Biosensors and Bioelectronics</i> , 2019 , 131, 193-199	11.8	22

126	Aptamer based nanobiosensors: Promising healthcare devices. 2019 , 27, 312-319	20
125	Graphene-based nanomaterials in biosystems. 2019 , 12, 247-264	37
124	Energy transfer in liquid and solid nanoobjects: application in luminescent analysis. 2019, 4,	1
123	Covalent coupling of tuberculostatic agents and graphene oxide: A promising approach for enhancing and extending their antimicrobial applications. 2019 , 471, 553-565	14
122	Development of a ssDNA aptamer system with reduced graphene oxide (rGO) to detect nonylphenol ethoxylate in domestic detergent. 2019 , 32, e2764	7
121	Advances in dermatology using DNA aptamer "Aptamin C" innovation: Oxidative stress prevention and effect maximization of vitamin C through antioxidation. 2020 , 19, 970-976	4
120	Decorations of graphene oxide with cisplatin toward investigation of fluorescence quencher on regulatory sequence of BRCA1 and BRCA2. 2020 , 17, 127-134	1
119	A simple aptasensor for Albligomers based on tunable mismatched base pairs of dsDNA and graphene oxide. <i>Biosensors and Bioelectronics</i> , 2020 , 149, 111840	16
118	Graphene-nucleic acid biointerface-engineered biosensors with tunable dynamic range. 2020 , 8, 3623-3630	7
117	Fluorescent Aptamer-Polyethylene Glycol Functionalized Graphene Oxide Biosensor for Profenofos Detection in Food. 2020 , 36, 787-794	12
116	Determination of Bisphenol A by High-Performance Liquid Chromatography Based on Graphene Magnetic Dispersion Solid Phase Extraction. 2020 , 58, 280-286	5
115	Advances in oligonucleotide-based detection coupled with fluorescence resonance energy transfer. 2020 , 123, 115756	2
114	Detection of Nonylphenol with a Gold-Nanoparticle-Based Small-Molecule Sensing System Using an ssDNA Aptamer. 2019 , 21,	6
113	Graphene/gold nanoparticle composites for ultrasensitive and versatile biomarker assay using single-particle inductively-coupled plasma/mass spectrometry. 2021 , 145, 7932-7940	6
112	Graphene based sensors. 2020 , 175-199	15
111	Development of a Novel ssDNA Sequence for a Glycated Human Serum Albumin and Construction of a Simple Aptasensor System Based on Reduced Graphene Oxide (rGO). 2020 , 10,	2
110	An aptasensor for the label-free detection of thrombin based on turn-on fluorescent DNA-templated Cu/Ag nanoclusters 2020 , 10, 35374-35380	7
109	Engineering the surface of graphene oxide with bovine serum albumin for improved biocompatibility in Caenorhabditis elegans. 2020 , 2, 5219-5230	9

108	Selective sensing of Mn2+ based on ZnCdS/ZnS QD/carboxymethyl chitosan/g-C3N4 nanosheet nanocomposite film by the conformational regulation of polymer chain. 2020 , 530, 147255	6
107	Laser induced graphene for biosensors. 2020 , 25, e00205	19
106	Highly sensitive and specific detection of small molecules using advanced aptasensors based on split aptamers: A review. 2020 , 133, 116069	30
105	Glucose sensing by a glassy carbon electrode modified with glucose oxidase/chitosan/graphene oxide nanofibers. 2020 , 109, 108073	13
104	Functional graphene-based nanodevices: emerging diagnostic tool. 2020 , 85-112	6
103	Resonance Energy Transfer in Hybrid Systems of Photoactive Dye Molecules and Layered Inorganics. 2020 , 205-250	3
102	Toxicity Studies on Graphene-Based Nanomaterials in Aquatic Organisms: Current Understanding. 2020 , 25,	14
101	Application of 2D Nanomaterials as Fluorescent Biosensors. 2020 , 117-141	4
100	Self-assembled perylenetetracarboxylic acid-reduced graphene oxide film for high-sensitive impedimetric determination of thrombin. 2020 , 402, 126491	2
99	Detection and become dealers and advanced in a second biometric 2020 1 2002 2007	
99	Detection and beyond: challenges and advances in aptamer-based biosensors. 2020 , 1, 2663-2687	40
98	. 2020,	0
98	. 2020 , Selective oxidation of benzyl alcohol by reduced graphene oxide supported platinum nanoparticles.	О
98 97	. 2020, Selective oxidation of benzyl alcohol by reduced graphene oxide supported platinum nanoparticles. 2020, 1664, 012074 Signal-off photoelectrochemical biosensing platform based on hybridization chain-doped manganese porphyrin quenching on CdSe signal coupling with cyclic amplification for thrombin	9
98 97 96	. 2020, Selective oxidation of benzyl alcohol by reduced graphene oxide supported platinum nanoparticles. 2020, 1664, 012074 Signal-off photoelectrochemical biosensing platform based on hybridization chain-doped manganese porphyrin quenching on CdSe signal coupling with cyclic amplification for thrombin detection. 2020, 879, 114803 Stronger Adsorption of Phosphorothioate DNA Oligonucleotides on Graphene Oxide by van der	9 3
98 97 96 95	. 2020, Selective oxidation of benzyl alcohol by reduced graphene oxide supported platinum nanoparticles. 2020, 1664, 012074 Signal-off photoelectrochemical biosensing platform based on hybridization chain-doped manganese porphyrin quenching on CdSe signal coupling with cyclic amplification for thrombin detection. 2020, 879, 114803 Stronger Adsorption of Phosphorothioate DNA Oligonucleotides on Graphene Oxide by van der Waals Forces. 2020, 36, 13708-13715	o 9 3 6
98 97 96 95 94	. 2020, Selective oxidation of benzyl alcohol by reduced graphene oxide supported platinum nanoparticles. 2020, 1664, 012074 Signal-off photoelectrochemical biosensing platform based on hybridization chain-doped manganese porphyrin quenching on CdSe signal coupling with cyclic amplification for thrombin detection. 2020, 879, 114803 Stronger Adsorption of Phosphorothioate DNA Oligonucleotides on Graphene Oxide by van der Waals Forces. 2020, 36, 13708-13715 Graphene Quantum Dot Oxidation Governs Noncovalent Biopolymer Adsorption. 2020, 10, 7074 Ultrasensitive DNA electrochemical biosensor based on MnTBAP biomimetic catalyzed AGET ATRP	93615

(2021-2020)

90	Chimeric Peptides Self-Assembling on Titanium Carbide MXenes as Biosensing Interfaces for Activity Assay of Post-translational Modification Enzymes. <i>Analytical Chemistry</i> , 2020 , 92, 8819-8826	7.8	10
89	Topochemical assembly of levodopa nanoparticles network as a high-performance biosensing platform coupling with Estacking and electrostatic repulsion interactions. 2020 , 219, 121285		2
88	Label-free liquid crystal-based biosensor for detection of dopamine using DNA aptamer as a recognition probe. 2020 , 605, 113807		12
87	Self-assembly of DNA walker with biosensing application assisted by chemoselective ligation. 2020 , 321, 128537		3
86	CoAl-layered double hydroxide nanosheet-based fluorescence assay for fast DNA detection. 2020 , 240, 118618		5
85	Cytotoxicity of Formulated Graphene and Its Natural Rubber Nanocomposite Thin Film in Human Vaginal Epithelial Cells: An Influence of Noncovalent Interaction. 2020 , 6, 2007-2019		10
84	Two-dimensional nanomaterial-based plasmonic sensing applications: Advances and challenges. 2020 , 410, 213218		36
83	A fluorometric assay of thrombin using magnetic nanoparticles and enzyme-free hybridization chain reaction. <i>Mikrochimica Acta</i> , 2020 , 187, 295	5.8	4
82	Label-free liquid crystal-based detection of As(III) ions using ssDNA as a recognition probe. 2020 , 156, 104834		23
81	Rapid and sensitive detection of prostate-specific antigen via label-free frequency shift Raman of sensing graphene. <i>Biosensors and Bioelectronics</i> , 2020 , 158, 112184	11.8	9
81 80		11.8	9
	sensing graphene. <i>Biosensors and Bioelectronics</i> , 2020 , 158, 112184	11.8	
80	Sensing graphene. <i>Biosensors and Bioelectronics</i> , 2020 , 158, 112184 Nanoscale Optical Logic Circuits by Single-Step FRET. 2020 , 12, 1-12 A Fluorescence Resonance Energy Transfer Probe Based on DNA-Modified Upconversion and Gold	11.8	2
80 79	Nanoscale Optical Logic Circuits by Single-Step FRET. 2020 , 12, 1-12 A Fluorescence Resonance Energy Transfer Probe Based on DNA-Modified Upconversion and Gold Nanoparticles for Detection of Lead Ions. 2020 , 8, 238 Confined Reduced Graphene Oxides as a Platform for DNA Sensing in Solutions Crowded with	11.8	2
80 79 78	Nanoscale Optical Logic Circuits by Single-Step FRET. 2020, 12, 1-12 A Fluorescence Resonance Energy Transfer Probe Based on DNA-Modified Upconversion and Gold Nanoparticles for Detection of Lead Ions. 2020, 8, 238 Confined Reduced Graphene Oxides as a Platform for DNA Sensing in Solutions Crowded with Biomolecules 2020, 3, 3210-3216	11.8	2 12 6
80 79 78 77	Nanoscale Optical Logic Circuits by Single-Step FRET. 2020, 12, 1-12 A Fluorescence Resonance Energy Transfer Probe Based on DNA-Modified Upconversion and Gold Nanoparticles for Detection of Lead Ions. 2020, 8, 238 Confined Reduced Graphene Oxides as a Platform for DNA Sensing in Solutions Crowded with Biomolecules 2020, 3, 3210-3216 Introducing a biomimetic coating for graphene neuroelectronics: towardapplications 2020, 7,	11.8	2 12 6
80 79 78 77 76	Nanoscale Optical Logic Circuits by Single-Step FRET. 2020, 12, 1-12 A Fluorescence Resonance Energy Transfer Probe Based on DNA-Modified Upconversion and Gold Nanoparticles for Detection of Lead Ions. 2020, 8, 238 Confined Reduced Graphene Oxides as a Platform for DNA Sensing in Solutions Crowded with Biomolecules 2020, 3, 3210-3216 Introducing a biomimetic coating for graphene neuroelectronics: towardapplications 2020, 7, Green synthesis of carbon nanoparticles: characterization and their biocidal properties. 2021, 277-306 Ultrasensitive Fe3+ ion detection based on pH-insensitive fluorescent graphene nanosensors in	11.8	2 12 6

72 Classification and application of nanomaterials for foodborne pathogens analysis. **2021**, 79-99

71	A Cationic Surfactant-Decorated Liquid Crystal-Based Aptasensor for Label-Free Detection of Malathion Pesticides in Environmental Samples. 2021 , 11,	7
70	Aptamer Switches Regulated by Post-Transition/Transition Metal Ions. 2021, 60, 12346-12350	7
69	Graphene-on-Glass Preparation and Cleaning Methods Characterized by Single-Molecule DNA Origami Fluorescent Probes and Raman Spectroscopy. 2021 , 15, 6430-6438	3
68	Cu(II) monitoring at attomolar level assisted by rGO mediated PET. 2021 , 289, 129397	2
67	Aptamer Switches Regulated by Post-Transition/Transition Metal Ions. 2021 , 133, 12454-12458	1
66	Innovations in nanoscience for the sustainable development of food and agriculture with implications on health and environment. 2021 , 768, 144990	36
65	Synthesis of GO and rGO@Fe3O4@Ni as remarkable nanocatalyst systems for solvent-free and chemoselective coupling reactions of dimedone with aromatic aldehydes. 2021 , 35, e6321	2
64	A critical review on multifunctional smart materials flanographenelemerging avenue: nano-imaging and biosensor applications. 1-17	17
63	Graphene Oxide-Based Simple and Rapid Detection of Antibiotic Resistance Gene via Quantum Dot-Labeled Zinc Finger Proteins. <i>Analytical Chemistry</i> , 2021 , 93, 8459-8466	3
62	Towards the development of antioxidant-wrapped graphene-based fluorescent nanomaterials having theranostic potentials: A combined experimental and theoretical study. 2021 , 4, 100042	
61	Three-Dimensional Quantitative Intracellular Visualization of Graphene Oxide Nanoparticles by Tomographic Flow Cytometry. 2021 , 21, 5958-5966	8
60	Synthesis and fluorescence quenching mechanism of novel naphthalimide derivative by nanographene oxide. 2021 , 780, 138895	1
59	Selective prototropism of lumichrome in the liposome/graphene oxide interface: A detailed spectroscopic study. 2021 , 339, 116738	
58	Adsorption behavior of uracil on external surface of MgO nanotubes: A new class of hybrid nano-bio materials. 2021 , 339, 116732	О
57	Detection of exosomes via an electrochemical biosensor based on C60-Au-Tb composite. 2021 , 170, 106772	1
56	Emerging biosensing platforms for quantitative detection of exosomes as diagnostic biomarkers. 2021 , 446, 214111	6
55	Utilization of carbon allotropes with special reference to carbon nanotubes and graphene for the high performance of natural rubber. 2021 , 203-246	1

(2021-2021)

54	Graphene Oxide Derivatives and Their Nanohybrid Structures for Laser Desorption/Ionization Time-of-Flight Mass Spectrometry Analysis of Small Molecules. 2021 , 11,	6
53	Functionalized graphene-based nanocomposites for smart optoelectronic applications. 2021 , 10, 605-635	7
52	An ultrasensitive, homogeneous fluorescence quenching immunoassay integrating separation and detection of aflatoxin M based on magnetic graphene composites. <i>Mikrochimica Acta</i> , 2021 , 188, 59	3
51	Graphene: Synthesis, Properties and Application. 139-193	1
50	Functional DNA-Integrated Nanomaterials for Biosensing. 2013, 277-305	5
49	Amplified Electrochemical Biosensing of Thrombin Activity by RAFT Polymerization. <i>Analytical Chemistry</i> , 2020 , 92, 3470-3476	17
48	Graphene-Like Layers from Unconventional Carbon Sources: New Perspectives on Hybrid Materials and Exystem Synergisms. 2017 , 18, 263	2
47	Impedimetric Hg2+Detection on Multilayered Reduced Graphene Oxide-Modified Electrode. 2012 , 33, 4219-4222	5
46	Graphene oxide-controlled neutral cationic form of a red emitting dye: enhancement of fluorescence by graphene oxide. 2021 , 57, 11855-11858	О
45	NEMS Sensors Based on Novel Nanomaterials. 2022 , 133-185	
44	Aptamer-Functionalized Nanomaterials for Biological and Biomedical Applications. 2014, 1159-1175	
43	Upconversion Nanoparticles for Biosensing. 2015 , 255-284	1
42	References. 257-276	
41	Aptasensor Technologies Developed for Detection of Toxins. 2016 , 249-259	
40	Aptamer: A Futuristic Approach in Diagnosis Rivaling Antibodies. 2019 , 37-57	
39	Graphene Quantum Dot Oxidation Governs Noncovalent Biopolymer Adsorption.	1
38	Fluorescent Carbon Nanostructures. 2020 , 357-399	
37	A facile nanozyme based catalytic platform for the selective and sensitive detection of thrombin. 2021 , 106965	4

Graphene: An Insight Into Electrochemical Sensing Technology. **2020**, 169-233

35	Fluorogenic "on-off" nanosensor based on dual-quenching effect for imaging intracellular metabolite of various microalgae. <i>Biosensors and Bioelectronics</i> , 2021 , 198, 113839	11.8	O
34	Target-Activating and Toehold Displacement Ag NCs/GO Biosensor-Mediating Signal Shift and Enhancement for Simultaneous Multiple Detection. <i>Analytical Chemistry</i> , 2021 , 93, 16025-16034	7.8	1
33	Insights into the Role of Graphene/Graphene-hybrid Nanocomposites in Antiviral Therapy. 2021 , 8, 549		Ο
32	A Fluorescence Kinetic-Based Aptasensor Employing Stilbene Isomerization for Detection of Thrombin. 2021 , 14,		1
31	Direct observation of adsorption and desorption of ds-DNA on graphene oxide and graphene oxide-gold nanoparticle hybrid material: A kineto-mechanistic investigation. 2021 , 577, 151696		O
30	Recent Progress in Microneedles-mediated Diagnosis, Therapy, and Theranostic Systems 2022 , e21025	547	5
29	Rapid, amplification-free and high-throughput SARS-CoV-2 RNA detection via a reduced-graphene-oxide based fluorescence assay.		O
28	Rapid electrochemical detection of COVID-19 genomic sequence with dual-function graphene nanocolloids based biosensor. <i>FlatChem</i> , 2022 , 32, 100336	5.1	6
27	Applications of graphene-based electrochemical and optical biosensors in early detection of cancer biomarkers <i>Colloids and Surfaces B: Biointerfaces</i> , 2022 , 212, 112356	6	3
26	Carbon and carbon paste electrodes. 2022 , 79-114		1
25	Simultaneous probing of dual intracellular metabolites (ATP and paramylon) in live microalgae using graphene oxide/aptamer nanocomplex <i>Mikrochimica Acta</i> , 2022 , 189, 88	5.8	O
24	Principles and Biomedical Application of Graphene Family Nanomaterials <i>Advances in Experimental Medicine and Biology</i> , 2022 , 1351, 3-22	3.6	
23	Hybrid organic or inorganic nanomaterials for healthcare diagnostics. 2022 , 275-312		
22	Paper-Based Devices for the Detection of Food-Related Analyte. 2022 , 89-108		
21	An excimer IDN OFFIs witch based on telomeric G-quadruplex and rGO for trace thrombin detection. Chinese Chemical Letters, 2022,	8.1	O
20	An electrochemical aptasensor for detection of Prostate specific antigen based on carbon quantum dots-gold nanoparticles <i>Biotechnology and Applied Biochemistry</i> , 2022 ,	2.8	2
19	Regulation of the Structure of Zirconium-Based Porphyrinic Metal-Organic Framework as Highly Electrochemiluminescence Sensing Platform for Thrombin <i>Analytical Chemistry</i> , 2022 ,	7.8	3

18	Highly Sensitive Fluorescent Biosensor Based on Acetylcholinesterase and Carbon Dots@raphene Oxide Quenching Test for Analytical and Commercial Organophosphate Pesticide Detection. <i>Frontiers in Environmental Science</i> , 10,	4.8	2
17	Detection of small molecules by fluorescence intensity using single dye labeled aptamers and quencher transition metal ions <i>Biosensors and Bioelectronics</i> , 2022 , 205, 114091	11.8	1
16	Multifunctional aptamer-conjugated magnetite graphene oxide/chlorin e6 nanocomposite for combined chemo-phototherapy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 645, 128841	5.1	3
15	A Simple and Ultrasensitive Colorimetric Biosensor for Anatoxin-a Based on Aptamer and Gold Nanoparticles <i>Micromachines</i> , 2021 , 12,	3.3	1
14	Signaling Kinetics of DNA and Aptamer Biosensors Revealing Graphene Oxide Surface Heterogeneity. <i>Journal of Analysis and Testing</i> , 2022 , 6, 20-27	3.2	1
13	Graphene Oxide-Based Nanocomposite and Their Biomedical Applications. 2022, 427-456		O
12	Table_1.DOCX. 2020 ,		
11	Aptamer-based signal amplification strategies coupled with microchips for high-sensitivity bioanalytical applications: A review <i>Analytica Chimica Acta</i> , 2022 , 1209, 339893	6.6	1
10	Spectral analysis on the acceptor concentration-dependent fluorescence resonance energy transfer process in CuInS2@ZnS-SQ complexes. <i>Optics Express</i> , 2022 , 30, 23695	3.3	1
9	Electrical control of Fister resonant energy transfer across single-layer graphene. <i>Nanophotonics</i> , 2022 , 11, 3247-3256	6.3	
8	Optical and Electrochemical Aptasensors Developed for the Detection of Alpha-Fetoprotein. 1-15		
7	Sensitive electrochemical detection of A549 exosomes based on DNA/ferrocene-modified single-walled carbon nanotube complex. 2022 , 114971		2
6	Role of nanotechnology in food supply chain. 2023 , 415-434		0
5	Comparison of Optical and Electrical Sensor Characteristics for Efficient Analysis of Attachment and Detachment of Aptamer. 2022 , 12, 979		O
4	An offBn fluorescence aptasensor for trace thrombin detection based on FRET between CdS QDs and AuNPs. 2022 , 12, 35763-35769		O
3	Oxidation of alcohols to carbonyl compounds over graphene oxide functionalized with copper-thiazole as a catalyst.		O
2	Developing a novel nano-drug delivery system for delivery of quinapril according to experimental and chemometrical evidence. 2023 , 81, 104271		0
1	Label-free 3D visualization and quantification of endogenous and exogenous intracellular particles in single cells by phase-contrast holographic flow tomography. 2023 ,		O