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Fluorescent aptamer-functionalized graphene oxide biosensor for label-free detection of mercury(II)

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#	Paper	IF	Citations
204	Sensitive and selective detection of Hg ²⁺ and Cu ²⁺ ions by fluorescent Ag nanoclusters synthesized via a hydrothermal method. 2013 , 5, 10022-8		82
203	Advances in Graphene-Based Fluorescent Sensors for Heavy Metals. 2013 , 791-793, 998-1001		
202	Nanostructured Sensors for Detection of Heavy Metals: A Review. 2013 , 1, 713-723		372
201	Photoluminescent graphene oxide microarray for multiplex heavy metal ion analysis. 2013 , 9, 3410-4		33
200	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	11.8	192
199	Highly tunable aptasensing microarrays with graphene oxide multilayers. 2013 , 3, 3367		36
198	Polyethylene glycol-coated graphene oxide attenuates antigen-specific IgE production and enhanced antigen-induced T-cell reactivity in ovalbumin-sensitized BALB/c mice. 2014 , 9, 4257-66		15
197	Identification of multifunctional graphene-gold nanocomposite for environment-friendly enriching, separating, and detecting Hg ²⁺ simultaneously. 2014 , 6, 22761-8		56
196	Graphene for Biosensor Applications. 2014 , 83-145		
195	Dual fluorescence resonance energy transfer assay between tunable upconversion nanoparticles and controlled gold nanoparticles for the simultaneous detection of Pb ²⁺ and Hg ²⁺ . 2014 , 128, 327-36		72
194	Graphene oxide-DNA based sensors. <i>Biosensors and Bioelectronics</i> , 2014 , 60, 22-9	11.8	153
193	Ultrasensitive detection of lead (II) based on fluorescent aptamer-functionalized carbon nanotubes. 2014 , 37, 1236-42		42
192	Novel pyrazoline-based selective fluorescent sensor for Hg ²⁺ . 2014 , 24, 657-63		13
191	Ultrasensitive, rapid, and selective detection of mercury using graphene assisted laser desorption/ionization mass spectrometry. 2014 , 25, 861-8		46
190	Sensitive Pb(2+) probe based on the fluorescence quenching by graphene oxide and enhancement of the leaching of gold nanoparticles. 2014 , 6, 2568-75		47
189	Functional nucleic acid-based sensors for heavy metal ion assays. 2014 , 139, 6326-42		70
188	Graphene quantum dots sensor for the determination of graphene oxide in environmental water samples. 2014 , 86, 12279-84		59

187	An upconversion fluorescence based turn-on probe for detecting lead(II) ions. 2014 , 6, 9073-9077	20
186	Layered MnO ₂ nanosheet as a label-free nanoplatfor for rapid detection of mercury(II). 2014 , 139, 4445-8	21
185	Biomimetic nanopore for sensitive and selective detection of Hg(II) in conjunction with single-walled carbon nanotubes. 2014 , 2, 6371-6377	21
184	Selective and sensitive biosensors based on metal-enhanced fluorescence. 2014 , 202, 1148-1153	38
183	Fluorescent sensors using DNA-functionalized graphene oxide. 2014 , 406, 6885-902	102
182	One-pot green synthesis of high quantum yield oxygen-doped, nitrogen-rich, photoluminescent polymer carbon nanoribbons as an effective fluorescent sensing platform for sensitive and selective detection of silver(I) and mercury(II) ions. 2014 , 86, 7436-45	117
181	DNA as sensors and imaging agents for metal ions. 2014 , 53, 1925-42	120
180	Femtomole level photoelectrochemical aptasensing for mercury ions using quercetin-copper(II) complex as the DNA intercalator. <i>Biosensors and Bioelectronics</i> , 2014 , 54, 317-22	11.8 48
179	Sensitive pseudobienzyme electrocatalytic DNA biosensor for mercury(II) ion by using the autonomously assembled hemin/G-quadruplex DNAzyme nanowires for signal amplification. 2014 , 811, 23-8	34
178	SERS detection and removal of mercury(II)/silver(I) using oligonucleotide-functionalized core/shell magnetic silica sphere@Au nanoparticles. 2014 , 6, 7371-9	128
177	Graphene oxide-based amplified fluorescent biosensor for Hg(2+) detection through hybridization chain reactions. 2014 , 86, 3209-15	199
176	Organic liquids-responsive β -cyclodextrin-functionalized graphene-based fluorescence probe: label-free selective detection of tetrahydrofuran. 2014 , 19, 7459-79	33
175	Fluorescence off-on probe for drug sensing based on graphene oxide's inherent fluorescence. 2015 , 1, 045013	1
174	Nanomaterial-enabled Rapid Detection of Water Contaminants. 2015 , 11, 5336-59	90
173	Simple and signal-off electrochemical biosensor for mercury(II) based on thymine-mercury-thymine hybridization directly on graphene. 2015 , 170, 210-217	25
172	A novel aptasensor based on single-molecule force spectroscopy for highly sensitive detection of mercury ions. 2015 , 140, 5243-50	23
171	A label-free fluorescent probe for Hg ²⁺ and biothiols based on graphene oxide and Ru-complex. 2014 , 4, 5320	41
170	A non-aggregation spectrometric determination for mercury ions based on gold nanoparticles and thiocyanuric acid. 2015 , 134, 603-606	25

169	Graphene for Detection of Adenosine Triphosphate, Nicotinamide Adenine Dinucleotide, Other Molecules, Gas, and Ions. 2015 , 81-102		
168	An integrated microfluidic system for measurement of glycated hemoglobin levels by using an aptamer-antibody assay on magnetic beads. <i>Biosensors and Bioelectronics</i> , 2015 , 68, 397-403	11.8	56
167	Amino-functionalized silica-encapsulated Mn/ZnS quantum dots for the room-temperature phosphorescence determination of graphene oxide in environmental water samples. 2015 , 7, 7874-7878		2
166	The graphene/nucleic acid nanobiointerface. 2015 , 44, 6954-80		153
165	Label free Detection of Vitamin B12 Based on Fluorescence Quenching of Graphene Oxide Nanolayer. 2015 , 23, 878-884		14
164	Photoluminescent materials for highly toxic metals sensing: From downconversion to upconversion. 2015 , 6-7, 1-9		4
163	Reduced graphene oxide conjugate thymine as a new probe for ultrasensitive and selective fluorometric determination of mercury(II) ions. 2015 , 182, 1609-1617		45
162	Highly sensitive DNA-based fluorometric mercury(II) bioassay based on graphene oxide and exonuclease III-assisted signal amplification. 2015 , 182, 1535-1541		27
161	A dual functional electrochemical on/off switch sensor for the detection of mercury(II) and melamine. 2015 , 212, 446-450		16
160	Platinum(II)-Oligonucleotide Coordination Based Aptasensor for Simple and Selective Detection of Platinum Compounds. 2015 , 87, 10542-6		22
159	Guanine chemiluminescent biosensor capable of rapidly sensing mercury in a sample. 2015 , 5, 94629-94634		8
158	Refinements to the structure of graphite oxide: absolute quantification of functional groups via selective labelling. 2015 , 7, 20256-66		61
157	Biocompatible Graphene for Bioanalytical Applications. 2015 ,		8
156	Detection of mercury ions (II) based on non-cross-linking aggregation of double-stranded DNA modified gold nanoparticles by resonance Rayleigh scattering method. <i>Biosensors and Bioelectronics</i> , 2015 , 65, 360-5	11.8	53
155	A rapid and label-free dual detection of Hg (II) and cysteine with the use of fluorescence switching of graphene quantum dots. 2015 , 207, 490-497		104
154	Label-free electrochemical DNA biosensor for rapid detection of multidrug resistance gene based on Au nanoparticles/toluidine blue/graphene oxide nanocomposites. 2015 , 207, 269-276		113
153	Ethynyl and stacked thymine-Hg ²⁺ -thymine base pairs enhanced fluorescence quenching via photoinduced electron transfer and simple and sensitive mercury ion sensing. <i>Biosensors and Bioelectronics</i> , 2015 , 64, 597-604	11.8	27
152	A direct competitive assay-based aptasensor for sensitive determination of tetracycline residue in honey. 2015 , 131, 562-9		80

151	Fluorescent mesoporous silica nanoparticles functionalized graphene oxide: A facile FRET-based ratiometric probe for Hg ²⁺ . 2015 , 206, 181-189		23
150	Recent advances in aptasensors based on graphene and graphene-like nanomaterials. <i>Biosensors and Bioelectronics</i> , 2015 , 64, 373-85	11.8	148
149	Trends on Biosensing Systems for Heavy Metal Detection. 2016 , 74, 33-71		10
148	Progress in graphene-based optical and electrochemical aptasensors. 2016 , 393-431		1
147	Ultra-sensitive "turn-on" detection method for Hg(2+) based on mispairing biosensor and emulsion PCR. 2016 , 155, 168-74		15
146	Target-induced structure switching of a hairpin aptamer for the fluorescence detection of zeatin. 2016 , 8, 5957-5961		7
145	N-butylamine functionalized graphene oxide for detection of iron(III) by photoluminescence quenching. 2016 , 31, 229-35		9
144	Nanoparticles application in high sensitive aptasensor design. 2016 , 85, 85-97		46
143	When biomolecules meet graphene: from molecular level interactions to material design and applications. 2016 , 8, 19491-19509		159
142	A highly selective fluorescent probe for Cd ²⁺ and Zn ²⁺ based on a new diarylethene with quinolinebenzimidazole conjugated system. 2016 , 57, 5205-5210		20
141	Fluorescent nanoprobe for sensing and imaging of metal ions: recent advances and future perspectives. 2016 , 11, 309-329		173
140	Paper-based fluorescence resonance energy transfer assay for directly detecting nucleic acids and proteins. <i>Biosensors and Bioelectronics</i> , 2016 , 80, 79-83	11.8	38
139	Nanomaterial-based strategies for enhanced mercury trace analysis in environmental and drinking waters. 2016 , 80, 280-292		46
138	PtW/MoS ₂ hybrid nanocomposite for electrochemical sensing of H ₂ O ₂ released from living cells. <i>Biosensors and Bioelectronics</i> , 2016 , 80, 601-606	11.8	78
137	Ultrasensitive electrochemical sensor for Hg(2+) by using hybridization chain reaction coupled with Ag@Au core-shell nanoparticles. <i>Biosensors and Bioelectronics</i> , 2016 , 80, 339-343	11.8	50
136	Covalent linking DNA to graphene oxide and its comparison with physisorbed probes for Hg ²⁺ detection. <i>Biosensors and Bioelectronics</i> , 2016 , 79, 244-50	11.8	38
135	In-depth investigation of the interaction between DNA and nano-sized graphene oxide. 2016 , 97, 92-98		46
134	A highly selective and sensitive fluorescent sensor for the rapid detection of Hg ²⁺ based on phenylamine-oligothiophene derivative. 2016 , 153, 143-6		39

133	Aptamer-based nanobiosensors. <i>Biosensors and Bioelectronics</i> , 2016 , 76, 2-19	11.8	255
132	The application of graphene for in vitro and in vivo electrochemical biosensing. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 224-233	11.8	54
131	A high sensitivity field effect transistor biosensor for methylene blue detection utilize graphene oxide nanoribbon. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 511-517	11.8	22
130	The development of a graphene oxide-based aptasensor used for the detection of tetracycline in honey. 2017 , 9, 1133-1140		11
129	Ultrasensitive SERS aptasensor for the detection of oxytetracycline based on a gold-enhanced nano-assembly. 2017 , 165, 412-418		40
128	A diarylethene-based fluorescence sensor for the sequential recognition of mercury and cysteine. 2017 , 7, 20591-20596		16
127	Conjugated cationic polymer-assisted amplified fluorescent biosensor for protein detection via terminal protection of small molecule-linked DNA and graphene oxide. 2017 , 249, 8-13		21
126	Metal ion detection using functional nucleic acids and nanomaterials. <i>Biosensors and Bioelectronics</i> , 2017 , 96, 127-139	11.8	35
125	Label-free detection of Hg ²⁺ based on Hg ²⁺ -triggered toehold binding, Exonuclease III assisted target recycling and hybridization chain reaction. 2017 , 248, 411-418		25
124	A recyclable silver ions-specific surface-enhanced Raman scattering (SERS) sensor. 2017 , 171, 159-165		6
123	Recent Progress in Nanomaterial-Based Optical Aptamer Assay for the Detection of Food Chemical Contaminants. 2017 , 9, 23287-23301		87
122	Target-induced duplex-triplex transition for ratiometric detection of adenosine triphosphate. 2017 , 9, 3244-3248		1
121	Synthesis of charge transfer complex of chloranilic acid as acceptor with p-nitroaniline as donor: Crystallographic, UV-visible spectrophotometric and antimicrobial studies. 2017 , 1141, 687-697		38
120	Bienzyme-based visual and spectrophotometric aptamer assay for quantitation of nanomolar levels of mercury(II). 2017 , 184, 541-546		11
119	Visible detection of copper ions using a fluorescent probe based on red carbon dots and zirconium metal-organic frameworks. 2017 , 46, 15080-15086		19
118	Field-Effect Biosensors for On-Site Detection: Recent Advances and Promising Targets. 2017 , 6, 1700796		32
117	Fluorescence and Sensing Applications of Graphene Oxide and Graphene Quantum Dots: A Review. 2017 , 12, 2343-2353		171
116	Development of carbon-graphene-based aptamer biosensor for EN2 protein detection. 2017 , 534, 99-107		30

115	Functionalized graphene quantum dots as a fluorescent biosensor for detection of mercury and ethyl xanthate. 2017 , 43, 7457-7470	13
114	A review: Aptamer-based analytical strategies using the nanomaterials for environmental and human monitoring of toxic heavy metals. 2017 , 174, 619-627	119
113	The aptamers generated from HepG2 cells. 2017 , 60, 786-792	21
112	β -Cyclodextrin protected Cu nanoclusters as a novel fluorescence sensor for graphene oxide in environmental water samples. 2017 , 32, 596-601	8
111	Mercury detection based on label-free and isothermal enzyme-free amplified fluorescence platform. 2017 , 162, 368-373	12
110	A "turn-off" fluorescent biosensor for the detection of mercury (II) based on graphite carbon nitride. 2017 , 162, 46-51	43
109	A fluorescent DNA based probe for Hg(II) based on thymine-Hg(II)-thymine interaction and enrichment via magnetized graphene oxide. 2018 , 185, 207	12
108	Graphene-based optical nanosensors for detection of heavy metal ions. 2018 , 102, 280-289	63
107	Multifunctional fluorescent sensors for independent detection of multiple metal ions based on Ag nanoclusters. 2018 , 264, 184-192	35
106	A novel polymer probe for Zn(II) detection with ratiometric fluorescence signal. 2018 , 196, 274-280	18
105	Sandwich Assays for Small Molecule and Ion Detection. 2018 , 167-182	
104	Preparation, single-crystal investigation and spectrophotometric studies of proton transfer complex of 2,6-diaminopyridine with oxalic acid in various polar solvents. 2018 , 250, 150-161	51
103	Heating enhanced sensitive and selective electrochemical detection of Hg based on T-Hg-T structure and exonuclease III-assisted target recycling amplification strategy at heated gold disk electrode. <i>Biosensors and Bioelectronics</i> , 2018 , 104, 145-151	11.8 41
102	Biosensors Based on Sandwich Assays. 2018 ,	4
101	Polydopamine nanotube mediated fluorescent biosensor for Hg(ii) determination through exonuclease III-assisted signal amplification. 2018 , 143, 2623-2631	14
100	2-Hydroxy benzothiazole modified rhodol: aggregation-induced emission and dual-channel fluorescence sensing of Hg ²⁺ and Ag ⁺ ions. 2018 , 255, 2086-2094	52
99	State of the art: Lateral flow assay (LFA) biosensor for on-site rapid detection. 2018 , 29, 1567-1577	28
98	Fluorometric determination of lead(II) and mercury(II) based on their interaction with a complex formed between graphene oxide and a DNAzyme. 2017 , 185, 2	34

97	Phantom membrane microfluidic cross-flow filtration device for the direct optical detection of water pollutants. 2018 , 257, 924-930	13
96	Robust Covalent Coupling Scheme for the Development of FRET Aptasensor based on Amino-Silane-Modified Graphene Oxide. 2018 , 34, 14586-14596	4
95	Two-dimensional nanomaterial based sensors for heavy metal ions. 2018 , 185, 478	37
94	Bio-hybrid inorganic microparticles derived from CO for highly efficient and selective removal of antibiotics. 2018 , 12, 16	1
93	Graphene Quantum Dots Integrated in Ionophore-Based Fluorescent Nanosensors for Na and K. 2018 , 3, 2408-2414	28
92	Structure-Switching Electrochemical Aptasensor for Single-Step and Specific Detection of Trace Mercury in Dairy Products. 2018 , 66, 10106-10112	34
91	A turn-on fluorescent sensor for Hg ²⁺ detection based on graphene oxide and DNA aptamers. 2018 , 42, 11147-11152	23
90	Smart app-based on-field colorimetric quantification of mercury via analyte-induced enhancement of the photocatalytic activity of TiO ₂ -Au nanospheres. 2018 , 410, 4555-4564	13
89	Novel SERS labels: Rational design, functional integration and biomedical applications. 2018 , 371, 11-37	79
88	Theoretical studies of charge transfer and proton transfer complex formation between 3,5-dinitrobenzoic acid and 1,2-dimethylimidazole. 2018 ,	1
87	Label-free fluorescent aptasensor berberine-based strategy for ultrasensitive detection of Hg ion. 2018 , 204, 301-307	13
86	Chemical sensing with 2D materials. 2018 , 47, 4860-4908	317
85	Functional Nucleic Acid Based Biosensors for Transition Metal Ion Detection. 2018 , 125-159	
84	A novel fluorescent aptasensor for the highly sensitive and selective detection of cardiac troponin I based on a graphene oxide platform. 2018 , 410, 4285-4291	32
83	Mercury ion-DNA specificity triggers a distinctive photoluminescence depression in organic semiconductor probes guided with a thymine-rich oligonucleotide sequence. 2018 , 10, 17540-17545	6
82	Ultrasensitive and highly selective FRET aptasensor for Hg ²⁺ measurement in fish samples using carbon dots/AuNPs as donor/acceptor platform. 2018 , 42, 16027-16035	18
81	Ultrasensitive determination of mercury ions (II) by analysis of the degree of quantum dots aggregation. 2018 , 188, 644-650	7
80	Amperometric Biosensors for Tyramine Determination Based on Graphene Oxide and Polyvinylferrocene Modified Screen-printed Electrodes. 2019 , 31, 2368-2378	10

79	Nanocarbons for Biology and Medicine: Sensing, Imaging, and Drug Delivery. 2019 , 119, 9559-9656		219
78	An ultrasensitive competitive chemiluminescence immunosensor coupled flow injection cell modified by oxidized graphene-chitosan for the detection of Hg ²⁺ . 2019 , 149, 103997		2
77	Aptamers. 2019 ,		2
76	Graphene Structures: From Preparations to Applications. 2019 , 323-357		2
75	A graphene oxide-gold nanostar hybrid based-paper biosensor for label-free SERS detection of serum bilirubin for diagnosis of jaundice. <i>Biosensors and Bioelectronics</i> , 2019 , 145, 111713	11.8	54
74	Fluorescent Sensors for the Detection of Heavy Metal Ions in Aqueous Media. 2019 , 19,		102
73	Coordination-induced structural changes of DNA-based optical and electrochemical sensors for metal ions detection. 2019 , 48, 5879-5891		9
72	Photoelectrochemical Nanosensors. 2019 , 197-229		1
71	Sensing of Water Contaminants: From Traditional to Modern Strategies Based on Nanotechnology. 2019 , 109-150		3
70	A perspective of advanced biosensors for environmental monitoring. 2019 , 19-51		0
69	Future Perspectives and Review on Organic Carbon Dots in Electronic Applications. 2019 , 13, 6224-6255		149
68	Selective and rapid detection of mercury ion based on DNA assembly and nicking endonuclease-assisted signal amplification. 2019 , 11, 3073-3078		5
67	New Strategy for Ultrasensitive Aptasensor Fabrication: D-A-D Constitution as a Charge Transfer Platform and Recognition Element. 2019 , 11, 17894-17901		9
66	Systematic truncating of aptamers to create high-performance graphene oxide (GO)-based aptasensors for the multiplex detection of mycotoxins. 2019 , 144, 3826-3835		9
65	A review on graphene-based nanocomposites for electrochemical and fluorescent biosensors.. 2019 , 9, 8778-8881		342
64	Recent advances in sensitive and rapid mercury determination with graphene-based sensors. 2019 , 7, 6616-6630		51
63	Progress in rapid optical assays for heavy metal ions based on the use of nanoparticles and receptor molecules. 2019 , 186, 172		40
62	Aggregation-based determination of mercury(II) using DNA-modified single gold nanoparticle, T-Hg(II)-T interaction, and single-particle ICP-MS. 2019 , 187, 56		7

61	Impedimetric aptamer based determination of the tumor marker MUC1 by using electrospun core-shell nanofibers. 2019 , 187, 5	9
60	A review on nanostructure-based mercury (II) detection and monitoring focusing on aptamer and oligonucleotide biosensors. 2020 , 220, 121437	16
59	Synthesis and spectrophotometric studies of CT complex between 1,2-dimethylimidazole and picric acid in different polar solvents: exploring antimicrobial activities and molecular (DNA) docking. 2020 , 1-17	16
58	. 2020 ,	0
57	Application of fluorescent biosensors in the detection of Hg(II) based on T-Hg(II)-T base pairs. 2020 , 159, 105562	5
56	Magnetically separable and recyclable bamboo-like carbon nanotube-based FRET assay for sensitive and selective detection of Hg. 2020 , 412, 3779-3786	6
55	Fluorescent, colourimetric, and ratiometric probes based on diverse fluorophore motifs for mercuric(II) ion (Hg) sensing: highlights from 2011 to 2019. 2020 , 74, 1-38	10
54	Graphene Quantum Dot Oxidation Governs Noncovalent Biopolymer Adsorption. 2020 , 10, 7074	15
53	Methods of inorganic pollutants detection in water. 2020 , 115-134	
52	Reduced Graphene OxideThioguanine Composites for the Selective Detection of Inorganic and Organic Mercury in Aqueous Media. 2020 , 3, 3071-3079	9
51	Label-free and immobilization-free electrochemiluminescent sensing platform for highly sensitive detection of As(III) by combining target-induced strand displacement amplification with polydopamine nanospheres. 2020 , 311, 127818	8
50	Synthesis, spectroscopic, thermal, structural characterization and DFT/TD-DFT computational studies for charge transfer complexes of 2,4-diamino pyrimidine with some benzoquinone acceptors. 2020 , 309, 113210	22
49	Functionalized graphene and targeted applications [Highlighting the road from chemistry to applications. 2020 , 114, 100683	38
48	A low-cost paper-based aptasensor for simultaneous trace-level monitoring of mercury (II) and silver (I) ions. 2020 , 597, 113689	27
47	Molecularly imprinted polymer functionalized flower-like BiOBr microspheres for photoelectrochemical sensing of chloramphenicol. 2020 , 344, 136161	13
46	Development of an Aptamer Based Luminescent Optical Fiber Sensor for the Continuous Monitoring of Hg in Aqueous Media. 2020 , 20,	8
45	Charge transfer complexes: Emerging and promising colorimetric real-time chemosensors for hazardous materials. 2021 , 403, 123537	24
44	CoS ₂ /GO nanocomposites for highly efficient and ppb level adsorption of Hg(II) from wastewater. 2021 , 322, 114899	3

43	A novel sensitive aptamer-based nanosensor using rQDs and MWCNTs for rapid detection of diazinon pesticide. 2021 , 9, 104878	20
42	Engineered two-dimensional nanomaterials: an emerging paradigm for water purification and monitoring. 2021 , 8, 758-802	42
41	Graphene and its Derivatives-Based Optical Sensors. 2021 , 9, 615164	19
40	Ionic liquid modified graphene oxide supported Mo-complex: A novel, efficient and highly stable catalyst. 2021 , 23, 100946	5
39	Development of a novel label-free impedimetric electrochemical sensor based on hydrogel/chitosan for the detection of ochratoxin A. 2021 , 226, 122183	18
38	Graphene-Based Hybrid Functional Materials. 2021 , 17, e2100514	8
37	Highly selective fluorescence probe with peptide backbone for imaging mercury ions in living cells based on aggregation-induced emission effect. 2021 , 415, 125712	5
36	Graphene and graphene oxide for bio-sensing: General properties and the effects of graphene ripples. 2021 , 131, 62-79	21
35	Emerging biosensing platforms for quantitative detection of exosomes as diagnostic biomarkers. 2021 , 446, 214111	6
34	Relevance of Biosensor in Climate Smart Organic Agriculture and Their Role in Environmental Sustainability: What Has Been Done and What We Need to Do?. 2021 , 115-136	10
33	A Turn OFF Fluorescent Probe For Selective Detection Of Hg ²⁺ Ions. 483-490	3
32	An Electrochemical Aptasensor for Pb Detection Based on Metal-Organic-Framework-Derived Hybrid Carbon. 2020 , 11,	4
31	Biosensors and their Applications in Food Safety: A Review. 2016 , 41, 240-254	18
30	Aptasensor-Possible Design and Strategy for Aptamer Based Sensor. 2019 , 133-154	1
29	Graphene Quantum Dot Oxidation Governs Noncovalent Biopolymer Adsorption.	1
28	Graphene: An Insight Into Electrochemical Sensing Technology. 2020 , 169-233	
27	Graphene and Graphene Oxide as a Support for Biomolecules in the Development of Biosensors. 2021 , 14, 197-220	11
26	Fabrication of eco-friendly hydrogel strips for the simultaneous quantification of heavy metal ions in aqueous environment. 2022 , 199, 110045	0

25	Recent Advances in Biosensors for Detection of Chemical Contaminants in Food  Review. 1	4
24	Visible-light and near-infrared fluorescence and surface-enhanced Raman scattering point-of-care sensing and bio-imaging: a review.. 2021 ,	10
23	Synthesis, functionalization, and optical sensing applications of graphene oxide. 2022 , 79-118	
22	Label-free biosensing of mercury(II) in milk using an aptamer-gated graphene field-effect transistor. 2022 , 904, 115931	0
21	Functional graphene paper from smart building to sensor application.. <i>Biosensors and Bioelectronics</i> , 2022 , 203, 114031	11.8 0
20	Mercury Fractionation, Bioavailability, and the Major Factors Predicting its Transfer and Accumulation in Soil/Wheat Systems.	
19	Signal Transduction Strategies for Analyte Detection using DNA-Based Nanostructures.. 2022 ,	4
18	Signal Transduction Strategies for Analyte Detection using DNA-Based Nanostructures.	
17	Isolation and Characterization of a ssDNA Aptamer against Major Soluble Antigen of .. 2022 , 27,	1
16	Functional nucleic acid-based fluorescent probes for metal ion detection. 2022 , 459, 214453	2
15	2D Materials-Based Aptamer Biosensors: Present Status and Way Forward.. 2021 ,	1
14	Carbon nanomaterial-based sensors: An efficient tool in the environmental sectors. 2022 , 149-165	
13	A Simple and Rapid  Fluorescent Sensor for Detecting Mercury (II) Based on the Molecular Beacon Aptamer. 2022 , 11, 1847	1
12	A natural fluorescent protein for ciprofloxacin sensing and mechanism study using molecular docking and circular dichroism. 2022 , 340082	
11	A FRET-based aptasensor for detection of α -synuclein oligomers as biomarkers of Parkinson's disease.	
10	Research trends in biomedical applications of two-dimensional nanomaterials over the last decade  bibliometric analysis. 2022 , 114420	3
9	A Fluorescent Polymer Coated Sensor Chip for Mercury Ion (Hg ²⁺) Determination in Lake Water. 2022 , 7,	0
8	Selective detection of metal ions, sulfites and glutathione with fluorescent pyrazolines: a review.	1

- 7 Aptamer-based NanoBioSensors for seafood safety. **2022**, 114771
- 6 Smart nano-architectures as potential sensing tools for detecting heavy metal ions in aqueous matrices. **2022**, 36, e00179
- 5 A highly sensitive and selective "on-off-on" fluorescent aptamer sensor based on tea residues carbon quantum dots for the detection of sulfadiazine in honey.
- 4 Aryl-Phenanthro[9,10-d]imidazole: A Versatile Scaffold for the Design of Optical-Based Sensors. **2022**, 7, 2865-2919
- 3 DNA-enabled fluorescent-based nanosensors monitoring tumor-related RNA toward advanced cancer diagnosis: A review. 10,
- 2 Evaluation of a biosensor-based graphene oxide-DNA nanohybrid for lung cancer. **2023**, 13, 2487-2500
- 1 Nanosensors and nanomaterials Solution to treat heavy metal ions. **2023**,