Metal Sensing by DNA

Chemical Reviews 117, 8272-8325

DOI: 10.1021/acs.chemrev.7b00063

Citation Report

#	Article	IF	CITATIONS
3	Nanoscale Zeolitic Imidazolate Framework-8 for Ratiometric Fluorescence Imaging of MicroRNA in Living Cells. Analytical Chemistry, 2017, 89, 12351-12359.	3.2	122
4	Selective Heavy Element Sensing with a Simple Host–Guest Fluorescent Array. Analytical Chemistry, 2017, 89, 11113-11121.	3.2	33
5	Local conformational changes in the 8–17 deoxyribozyme core induced by activating and inactivating divalent metal ions. Organic and Biomolecular Chemistry, 2017, 15, 8802-8809.	1.5	8
6	Enzymeâ€Free Colorimetric Detection of Cu ²⁺ by Utilizing Targetâ€Triggered DNAzymes and Toeholdâ€Mediated DNA Strand Displacement Events. Chemistry - A European Journal, 2017, 23, 17379-17383.	1.7	17
7	A Target-Lighted dsDNA-Indicator for High-Performance Monitoring of Mercury Pollution and Its Antagonists Screening. Environmental Science & Technology, 2017, 51, 11884-11890.	4.6	15
8	DNA Aptamer-Based Activatable Probes for Photoacoustic Imaging in Living Mice. Journal of the American Chemical Society, 2017, 139, 17225-17228.	6.6	136
9	Rapid Enrichment and Sensitive Detection of Multiple Metal Ions Enabled by Macroporous Graphene Foam. Analytical Chemistry, 2017, 89, 11758-11764.	3.2	34
10	Programming Enzyme-Initiated Autonomous DNAzyme Nanodevices in Living Cells. ACS Nano, 2017, 11, 11908-11914.	7.3	89
11	DNA mimics of red fluorescent proteins (RFP) based on G-quadruplex-confined synthetic RFP chromophores. Nucleic Acids Research, 2017, 45, 10380-10392.	6.5	70
12	Site‣elective Labeling of Chromium(III) as a Quencher on DNA for Molecular Beacons. ChemPlusChem, 2017, 82, 1224-1230.	1.3	9
13	Three Cadmium Coordination Polymers with Carboxylate and Pyridine Mixed Ligands: Luminescent Sensors for Fe ^{III} and Cr ^{VI} lons in an Aqueous Medium. Inorganic Chemistry, 2017, 56, 11768-11778.	1.9	167
14	Modulation of Ribozyme and Deoxyribozyme Activities Using Tetraalkylammonium Ions. ChemPhysChem, 2017, 18, 3614-3619.	1.0	6
15	Selfâ€Assembly of Nucleobase, Nucleoside and Nucleotide Coordination Polymers: From Synthesis to Applications. ChemNanoMat, 2017, 3, 670-684.	1.5	54
16	Splitting a DNAzyme enables a Na ⁺ -dependent FRET signal from the embedded aptamer. Organic and Biomolecular Chemistry, 2017, 15, 6959-6966.	1.5	11
17	Adaptively Recognizing Parallel-Stranded Duplex Structure for Fluorescent DNA Polarity Analysis. Analytical Chemistry, 2017, 89, 8604-8608.	3.2	12
18	Differential Effects of Strand Asymmetry on the Energetics and Structural Flexibility of DNA Internal Loops. Biochemistry, 2017, 56, 6448-6459.	1.2	7
19	Gold nanoparticle-based nano-probe for the colorimetric sensing of Cr ³⁺ and Cr ₂ O ₇ ^{2â^'} by the coordination strategy. Nanoscale, 2017, 9, 19139-19144.	2.8	30
20	Binding of divalent and higher valent metal ions to surfactants and polyelectrolytes. Current Opinion in Colloid and Interface Science, 2017, 32, 76-83.	3.4	3

#	Article	IF	CITATIONS
21	Two Completely Different Mechanisms for Highly Specific Na ⁺ Recognition by DNAzymes. ChemBioChem, 2017, 18, 1828-1835.	1.3	22
22	Enzyme-free, signal-amplified nucleic acid circuits for biosensing and bioimaging analysis. Analyst, The, 2017, 142, 3048-3061.	1.7	42
23	Freezing Directed Construction of Bio/Nano Interfaces: Reagentless Conjugation, Denser Spherical Nucleic Acids, and Better Nanoflares. Journal of the American Chemical Society, 2017, 139, 9471-9474.	6.6	303
24	Thioflavin T binds dimeric parallel-stranded GA-containing non-G-quadruplex DNAs: a general approach to lighting up double-stranded scaffolds. Nucleic Acids Research, 2017, 45, 12080-12089.	6.5	39
25	Gold nanoparticles functionalized with 2,6-dimercaptopurine for sensitive and selective colorimetric determination of cadmium(<scp>ii</scp>) in food, biological and environmental samples. Analytical Methods, 2017, 9, 5598-5603.	1.3	14
26	Filling in the Gaps between Nanozymes and Enzymes: Challenges and Opportunities. Bioconjugate Chemistry, 2017, 28, 2903-2909.	1.8	290
27	DNA Nanotechnology-Enabled Drug Delivery Systems. Chemical Reviews, 2019, 119, 6459-6506.	23.0	768
28	Design of Modular Gâ€quadruplex Ligands. ChemMedChem, 2018, 13, 869-893.	1.6	97
29	Fluorescent aptasensor for detection of four tetracycline veterinary drugs in milk based on catalytic hairpin assembly reaction and displacement of G-quadruplex. Analytical and Bioanalytical Chemistry, 2018, 410, 2981-2989.	1.9	24
30	Panoply of Fluorescence Polarization/Anisotropy Signaling Mechanisms for Functional Nucleic Acid-Based Sensing Platforms. Analytical Chemistry, 2018, 90, 4236-4248.	3.2	38
31	Liposome Crosslinked Polyacrylamide/DNA Hydrogel: a Smart Controlledâ€Release System for Small Molecular Payloads. Small, 2018, 14, e1704039.	5.2	88
32	Electrochemical Biosensor Using DNA Embedded Phosphorothioate Modified RNA for Mercury Ion Determination. ACS Sensors, 2018, 3, 624-631.	4.0	37
33	Hybridization chain reaction and DNAzyme-based dual signal amplification strategy for sensitive colorimetric sensing of acetylcholinesterase activity and inhibitor screening in rat blood. Sensors and Actuators B: Chemical, 2018, 267, 272-278.	4.0	12
34	Robust Hydrogels from Lanthanide Nucleotide Coordination with Evolving Nanostructures for a Highly Stable Protein Encapsulation. ACS Applied Materials & Interfaces, 2018, 10, 14321-14330.	4.0	40
35	Simultaneous detection of trace toxic metal ions, Pb2+ and Ag+, in water and food using a novel single-labeled fluorescent oligonucleotide probe. Sensors and Actuators B: Chemical, 2018, 261, 58-65.	4.0	30
36	Highly sensitive and selective detection of Pb2+ using a turn-on fluorescent aptamer DNA silver nanoclusters sensor. Talanta, 2018, 182, 125-130.	2.9	87
37	DNA Encountering Terbium(III): A Smart "Chemical Nose/Tongue―for Large-Scale Time-Gated Luminescent and Lifetime-Based Sensing. Analytical Chemistry, 2018, 90, 3443-3451.	3.2	53
38	Programmable DNA switches and their applications. Nanoscale, 2018, 10, 4607-4641.	2.8	101

#	Article	IF	CITATIONS
39	An engineered one-site aptamer with higher sensitivity for label-free detection of adenosine on graphene oxide. Canadian Journal of Chemistry, 2018, 96, 957-963.	0.6	10
40	Optical nano-biosensing interface <i>via</i> nucleic acid amplification strategy: construction and application. Chemical Society Reviews, 2018, 47, 1996-2019.	18.7	139
41	DNAzymes: Selected for Applications. Small Methods, 2018, 2, 1700319.	4.6	116
42	Evidence of a General Acid–Base Catalysis Mechanism in the 8–17 DNAzyme. Biochemistry, 2018, 57, 1517-1522.	1.2	29
43	Multifunctional Polyâ€≺i>Nâ€Isopropylacrylamide/DNAzyme Microgels as Highly Efficient and Recyclable Catalysts for Biosensing. Advanced Functional Materials, 2018, 28, 1705876.	7.8	62
44	The Design and Characterization of Multifunctional Aptamer Nanopore Sensors. ACS Nano, 2018, 12, 4844-4852.	7.3	66
45	Coordination of GMP ligand with Cu to enhance the multiple enzymes stability and substrate specificity by co-immobilization process. Biochemical Engineering Journal, 2018, 136, 102-108.	1.8	31
46	An RNAâ€Cleaving Catalytic DNA Accelerated by Freezing. ChemBioChem, 2018, 19, 1012-1017.	1.3	12
47	Switchable Triggered Interconversion and Reconfiguration of DNA Origami Dimers and Their Use for Programmed Catalysis. Nano Letters, 2018, 18, 2718-2724.	4.5	26
48	Colorimetric determination of uranyl (<mml:math)="" etqq<="" td="" tj="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td>1 1 0.784 2.9</td><td>314 rgBT /O\ 35</td></mml:math>	1 1 0.784 2.9	314 rgBT /O\ 35
49	Studies of Functional Nucleic Acids Modified Light Addressable Potentiometric Sensors: X-ray Photoelectron Spectroscopy, Biochemical Assay, and Simulation. Analytical Chemistry, 2018, 90, 5153-5161.	3.2	17
50	Screening of DNAzyme mutants for highly sensitive and selective detection of calcium in milk. Analytical Methods, 2018, 10, 1740-1746.	1.3	13
51	Folding of the silver aptamer in a DNAzyme probed by 2-aminopurine fluorescence. Biochimie, 2018, 145, 145-150.	1.3	14
52	Multi-metal-dependent nucleic acid enzymes. Metallomics, 2018, 10, 30-48.	1.0	40
53	Ultrasensitive DNAzymeâ€Based Ca ²⁺ Detection Boosted by Ethanol and a Solvent ompatible Scaffold for Aptazyme Design. ChemBioChem, 2018, 19, 31-36.	1.3	32
54	Peptide nucleic acid as a selective recognition element for electrochemical determination of Hg2+. Bioelectrochemistry, 2018, 119, 189-195.	2.4	17
55	Length-Dependent Diblock DNA with Poly-cytosine (Poly-C) as High-Affinity Anchors on Graphene Oxide. Langmuir, 2018, 34, 1171-1177.	1.6	40
56	Ligandâ€Induced Dimerization of a Truncated Parallel MYC Gâ€Quadruplex. ChemBioChem, 2018, 19, 505-512.	1.3	21

#	Article	IF	CITATIONS
57	Interfacing DNA Oligonucleotides with Calcium Phosphate and Other Metal Phosphates. Langmuir, 2018, 34, 14975-14982.	1.6	19
58	DNAzyme Feedback Amplification: Relaying Molecular Recognition to Exponential DNA Amplification. Chemistry - A European Journal, 2018, 24, 4473-4479.	1.7	21
59	DNAzyme-Mediated Assays for Amplified Detection of Nucleic Acids and Proteins. Analytical Chemistry, 2018, 90, 190-207.	3.2	176
60	Selection and Screening of DNA Aptamers for Inorganic Nanomaterials. Chemistry - A European Journal, 2018, 24, 2525-2532.	1.7	38
61	New insights into the structure–performance relationships of mesoporous materials in analytical science. Chemical Society Reviews, 2018, 47, 8766-8803.	18.7	136
62	Temperature-Robust DNAzyme Biosensors Confirming Ultralow Background Detection. ACS Sensors, 2018, 3, 2660-2666.	4.0	31
63	Mitochondria-Targeted DNA Nanoprobe for Real-Time Imaging and Simultaneous Quantification of Ca ²⁺ and pH in Neurons. ACS Nano, 2018, 12, 12357-12368.	7.3	115
64	Reselection Yielding a Smaller and More Active Silver-Specific DNAzyme. ACS Omega, 2018, 3, 15174-15181.	1.6	6
65	Designing DNAzymeâ€Powered Nanomachines Simultaneously Responsive to Multiple MicroRNAs. Chemistry - A European Journal, 2018, 24, 19024-19031.	1.7	16
66	Electrochemical Methods. , 2018, , .		0
66	Electrochemical Methods. , 2018, , . Controlling the Two-Dimensional Self-Assembly of Functionalized Porphyrins via Adenine–Thymine Quartet Formation. Journal of Physical Chemistry C, 2018, 122, 26070-26079.	1.5	0 8
66 67 68	Electrochemical Methods. , 2018, , . Controlling the Two-Dimensional Self-Assembly of Functionalized Porphyrins via Adenine–Thymine Quartet Formation. Journal of Physical Chemistry C, 2018, 122, 26070-26079. Copper signalling: causes and consequences. Cell Communication and Signaling, 2018, 16, 71.	1.5	0 8 128
66 67 68 69	Electrochemical Methods., 2018, ,. Controlling the Two-Dimensional Self-Assembly of Functionalized Porphyrins via Adenine–Thymine Quartet Formation. Journal of Physical Chemistry C, 2018, 122, 26070-26079. Copper signalling: causes and consequences. Cell Communication and Signaling, 2018, 16, 71. Misfolding of a DNAzyme for ultrahigh sodium selectivity over potassium. Nucleic Acids Research, 2018, 46, 10262-10271.	1.5 2.7 6.5	0 8 128 21
 66 67 68 69 70 	Electrochemical Methods., 2018, , . Controlling the Two-Dimensional Self-Assembly of Functionalized Porphyrins via Adenine–Thymine Quartet Formation. Journal of Physical Chemistry C, 2018, 122, 26070-26079. Copper signalling: causes and consequences. Cell Communication and Signaling, 2018, 16, 71. Misfolding of a DNAzyme for ultrahigh sodium selectivity over potassium. Nucleic Acids Research, 2018, 46, 10262-10271. Rational design of sequestered DNAzyme beacons to enable flexible control of catalytic activities. RSC Advances, 2018, 8, 29338-29343.	1.5 2.7 6.5 1.7	0 8 128 21 2
 66 67 68 69 70 71 	Electrochemical Methods., 2018, , . Controlling the Two-Dimensional Self-Assembly of Functionalized Porphyrins via Adenine–Thymine Quartet Formation. Journal of Physical Chemistry C, 2018, 122, 26070-26079. Copper signalling: causes and consequences. Cell Communication and Signaling, 2018, 16, 71. Misfolding of a DNAzyme for ultrahigh sodium selectivity over potassium. Nucleic Acids Research, 2018, 46, 10262-10271. Rational design of sequestered DNAzyme beacons to enable flexible control of catalytic activities. RSC Advances, 2018, 8, 29338-29343. DNAâ€Mediated Proximityâ€Based Assembly Circuit for Actuation of Biochemical Reactions. Angewandte Chemie, 2018, 130, 13270-13274.	1.5 2.7 6.5 1.7 1.6	0 8 128 21 2 1
 66 67 68 69 70 71 72 	Electrochemical Methods., 2018, , . Controlling the Two-Dimensional Self-Assembly of Functionalized Porphyrins via Adenine–Thymine Quartet Formation. Journal of Physical Chemistry C, 2018, 122, 26070-26079. Copper signalling: causes and consequences. Cell Communication and Signaling, 2018, 16, 71. Misfolding of a DNAzyme for ultrahigh sodium selectivity over potassium. Nucleic Acids Research, 2018, 46, 10262-10271. Rational design of sequestered DNAzyme beacons to enable flexible control of catalytic activities. RSC Advances, 2018, 8, 29338-29343. DNAâ€Mediated Proximityâ€Based Assembly Circuit for Actuation of Biochemical Reactions. Angewandte Chemie, 2018, 130, 13270-13274. Biocompatible G-Quadruplex/Hemin for Enhancing Antibacterial Activity of Hxsub>2x/sub>. AcS Applied Bio Materials, 2018, 1, 1019-1027.	1.5 2.7 6.5 1.7 1.6 2.3	0 8 128 21 2 1
 66 67 68 69 70 71 72 73 	Electrochemical Methods., 2018, , . Controlling the Two-Dimensional Self-Assembly of Functionalized Porphyrins via Adenine–Thymine Quartet Formation. Journal of Physical Chemistry C, 2018, 122, 26070-26079. Copper signalling: causes and consequences. Cell Communication and Signaling, 2018, 16, 71. Misfolding of a DNAzyme for ultrahigh sodium selectivity over potassium. Nucleic Acids Research, 2018, 46, 10262-10271. Rational design of sequestered DNAzyme beacons to enable flexible control of catalytic activities. RSC Advances, 2018, 8, 29338-29343. DNAâ€Mediated Proximityâ€Based Assembly Circuit for Actuation of Biochemical Reactions. Angewandte Chemie, 2018, 130, 13270-13274. Biocompatible C-Quadruplex/Hemin for Enhancing Antibacterial Activity of H H Sub>O Construction of five zinc coordination polymers with 4-substituted bis(trizole) and multicarboxylate ligands: Syntheses, structures and properties. Polyhedron, 2018, 155, 223-231.	1.5 2.7 6.5 1.7 1.6 2.3 1.0	0 8 128 21 2 1 1 12

#	Article	IF	CITATIONS
75	Terpyridine Functionalized Oligothiophene: Cadmium(II) Ion Sensing <i>via</i> Visualization and Fluorescence. ChemistrySelect, 2018, 3, 5559-5565.	0.7	5
76	Graphene oxide-assisted Au nanoparticle strip biosensor based on GR-5 DNAzyme for rapid lead ion detection. Colloids and Surfaces B: Biointerfaces, 2018, 169, 305-312.	2.5	30
77	Metal–Polydopamine Framework as an Effective Fluorescent Quencher for Highly Sensitive Detection of Hg(II) and Ag(I) Ions through Exonuclease III Activity. ACS Applied Materials & Interfaces, 2018, 10, 20550-20558.	4.0	61
78	Retraining and Optimizing DNA-Hydrolyzing Deoxyribozymes for Robust Single- and Multiple-Turnover Activities. ACS Catalysis, 2018, 8, 5996-6005.	5.5	17
79	Redefining Molecular Amphipathicity in Reversing the "Coffee-Ring Effect― Implications for Single Base Mutation Detection. Langmuir, 2018, 34, 6777-6783.	1.6	16
80	The Remarkable Effect of Halogen Substitution on the Membrane Transport of Fluorescent Molecules in Living Cells. Angewandte Chemie - International Edition, 2018, 57, 8989-8993.	7.2	33
81	The Remarkable Effect of Halogen Substitution on the Membrane Transport of Fluorescent Molecules in Living Cells. Angewandte Chemie, 2018, 130, 9127-9131.	1.6	13
82	Mixâ€andâ€match nanobiosensor design: Logical and spatial programming of biosensors using selfâ€assembled DNA nanostructures. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2018, 10, e1518.	3.3	15
83	DNA Oligonucleotide-Functionalized Liposomes: Bioconjugate Chemistry, Biointerfaces, and Applications. Langmuir, 2018, 34, 15000-15013.	1.6	41
84	Visually multiplexed quantitation of heavy metal ions in water using volumetric bar-chart chip. Biosensors and Bioelectronics, 2018, 117, 644-650.	5.3	47
85	Probing the propeller-like loops of DNA G-quadruplexes with looped-out 2-aminopurine for label-free switchable molecular sensing. Analyst, The, 2018, 143, 3814-3820.	1.7	4
86	High-Yield Method To Fabricate and Functionalize DNA Nanoparticles from the Products of Rolling Circle Amplification. ACS Applied Bio Materials, 2018, 1, 511-519.	2.3	13
87	Silver-Stabilized Guanine Duplex: Structural and Optical Properties. Journal of Physical Chemistry Letters, 2018, 9, 4789-4794.	2.1	15
88	A DNA as a Substrate and an Enzyme: Direct Profiling of Methyltransferase Activity by Cytosine Methylation of a DNAzyme. Chemistry - A European Journal, 2018, 24, 14500-14505.	1.7	12
89	Rox-DNA Functionalized Silicon Nanodots for Ratiometric Detection of Mercury lons in Live Cells. Analytical Chemistry, 2018, 90, 9796-9804.	3.2	33
91	An ultrasensitive signal-on electrochemical aptasensor for ochratoxin A determination based on DNA controlled layer-by-layer assembly of dual gold nanoparticle conjugates. Biosensors and Bioelectronics, 2018, 117, 845-851.	5.3	61
92	Highly Stable and Multiemissive Silver Nanoclusters Synthesized in Situ in a DNA Hydrogel and Their Application for Hydroxyl Radical Sensing. ACS Applied Materials & Interfaces, 2018, 10, 26075-26083.	4.0	64
93	An â€~â€~off-on'' phosphorescent aptasensor switch for the detection of ATP. Talanta, 2018, 190, 226-23	342.9	19

#	Article	IF	Citations
94	Tetrahedral DNAzymes for enhanced intracellular gene-silencing activity. Chemical Communications, 2018, 54, 9410-9413.	2.2	10
95	Hg(<scp>ii</scp>) interactions with T-rich regions in oligonucleotides: effects of positional variations on the electrochemical properties. Analyst, The, 2018, 143, 2844-2850.	1.7	3
96	Advances in the cellular structural biology of nucleic acids. FEBS Letters, 2018, 592, 1997-2011.	1.3	25
97	An electrochemical biosensor based on nucleic acids enzyme and nanochannels for detecting copper (II) ion. Biosensors and Bioelectronics, 2018, 120, 168-174.	5.3	42
98	Colorimetric Detection of Uranyl Using a Litmus Test. Frontiers in Chemistry, 2018, 6, 332.	1.8	14
99	The Chemistry of Europium(III) Encountering DNA: Sprouting Unique Sequence-Dependent Performances for Multifunctional Time-Resolved Luminescent Assays. Analytical Chemistry, 2018, 90, 10614-10620.	3.2	28
100	Optical Properties of Silver-Mediated DNA from Molecular Dynamics and Time Dependent Density Functional Theory. International Journal of Molecular Sciences, 2018, 19, 2346.	1.8	7
101	Structuring polarity-inverted TBA to C-quadruplex for selective recognition of planarity of natural isoquinoline alkaloids. Analyst, The, 2018, 143, 4907-4914.	1.7	9
102	Fluorescence Spectroscopic Insight into the Supramolecular Interactions in DNAâ€Based Enantioselective Sulfoxidation. ChemBioChem, 2018, 19, 2233-2240.	1.3	5
103	Highly Stable Conjugates of Carbon Nanoparticles with DNA Aptamers. Langmuir, 2018, 34, 10321-10332.	1.6	4
104	DNAâ€Mediated Proximityâ€Based Assembly Circuit for Actuation of Biochemical Reactions. Angewandte Chemie - International Edition, 2018, 57, 13086-13090.	7.2	21
105	Bioorthogonal DNA Adsorption on Polydopamine Nanoparticles Mediated by Metal Coordination for Highly Robust Sensing in Serum and Living Cells. ACS Nano, 2018, 12, 9070-9080.	7.3	107
106	Polyvalent Spherical Nucleic Acids for Universal Display of Functional DNA with Ultrahigh Stability. Angewandte Chemie - International Edition, 2018, 57, 9439-9442.	7.2	53
107	Bioinspired Copolymers Based Nose/Tongue-Mimic Chemosensor for Label-Free Fluorescent Pattern Discrimination of Metal Ions in Biofluids. Analytical Chemistry, 2018, 90, 8248-8253.	3.2	54
108	Surface-Guided Chemical Processes on Self-Assembled DNA Nanostructures. Langmuir, 2018, 34, 14954-14962.	1.6	4
109	Bifacial Nucleobases for Hexaplex Formation in Aqueous Solution. Journal of the American Chemical Society, 2018, 140, 8456-8462.	6.6	21
110	Polyvalent Spherical Nucleic Acids for Universal Display of Functional DNA with Ultrahigh Stability. Angewandte Chemie, 2018, 130, 9583-9586.	1.6	16
111	Molecular Sensors for NMR-Based Detection. Chemical Reviews, 2019, 119, 195-230.	23.0	82

#	Article	IF	CITATIONS
112	Two zinc(II) coordination polymers for selective luminescence sensing of iron(III) ions and photocatalytic degradation of methylene blue. Journal of Molecular Structure, 2019, 1175, 253-260.	1.8	49
113	An in Vitro–Selected DNAzyme Mutant Highly Specific for Na + under Slightly Acidic Conditions. ChemBioChem, 2019, 20, 537-542.	1.3	17
114	Freezing promoted hybridization of very short DNA oligonucleotides. Chemical Communications, 2019, 55, 10300-10303.	2.2	11
115	Robust Colorimetric Detection of Cu2+ by Excessed Nucleotide Coordinated Nanozymes. Journal of Analysis and Testing, 2019, 3, 260-268.	2.5	13
116	Efficient DNA-Catalyzed Porphyrin Metalation for Fluorescent Ratiometric Pb ²⁺ Detection. Analytical Chemistry, 2019, 91, 11403-11408.	3.2	74
117	Biominerals Formed by DNA and Calcium Oxalate or Hydroxyapatite: A Comparative Study. Langmuir, 2019, 35, 11912-11922.	1.6	4
118	Bio-Recognition in Spectroscopy-Based Biosensors for *Heavy Metals-Water and Waterborne Contamination Analysis. Biosensors, 2019, 9, 96.	2.3	18
119	Orthogonal Activation of RNAâ€Cleaving DNAzymes in Live Cells by Reactive Oxygen Species. Angewandte Chemie, 2019, 131, 14305-14310.	1.6	17
120	Regulating Transitionâ€Metal Catalysis through Interference by Short RNAs. Angewandte Chemie - International Edition, 2019, 58, 16400-16404.	7.2	4
121	Orthogonal Activation of RNAâ€Cleaving DNAzymes in Live Cells by Reactive Oxygen Species. Angewandte Chemie - International Edition, 2019, 58, 14167-14172.	7.2	65
122	From general base to general acid catalysis in a sodium-specific DNAzyme by a guanine-to-adenine mutation. Nucleic Acids Research, 2019, 47, 8154-8162.	6.5	25
123	The Arsenic-Binding Aptamer Cannot Bind Arsenic: Critical Evaluation of Aptamer Selection and Binding. Analytical Chemistry, 2019, 91, 10887-10893.	3.2	79
124	An aptamer-tethered, DNAzyme-embedded molecular beacon for simultaneous detection and regulation of tumor-related genes in living cells. Analyst, The, 2019, 144, 5098-5107.	1.7	13
125	Metal-Dependent DNAzymes for the Quantitative Detection of Metal Ions in Living Cells: Recent Progress, Current Challenges, and Latest Results on FRET Ratiometric Sensors. Inorganic Chemistry, 2019, 58, 13696-13708.	1.9	62
126	DNAzyme-Functionalized R-Phycoerythrin as a Cost-Effective and Environment-Friendly Fluorescent Biosensor for Aqueous Pb2+ Detection. Sensors, 2019, 19, 2732.	2.1	13
127	Click-Type Protein–DNA Conjugation for Mn ²⁺ Imaging in Living Cells. Analytical Chemistry, 2019, 91, 10180-10187.	3.2	7
128	[2 + 2] cycloaddition reaction and luminescent sensing of Fe ³⁺ and Cr ₂ O ₇ ^{2â^'} ions by a cadmium-based coordination polymer. Dalton Transactions, 2019, 48, 12159-12167.	1.6	18
129	Hysteresis energy based low cycle fatigue properties analysis in extruded Al-7Zn-2Mg-1.5Cu-0.2Sc-0.1Zr alloy at low temperature. Materials Research Express, 2019, 6, 116568.	0.8	3

#	Δρτιςι ε	IF	CITATIONS
[™] 130	Cationic copolymer-chaperoned DNAzyme sensor for microRNA detection. Biomaterials, 2019, 225,	5.7	19
100		0.7	17
131	A Universal Electrochemical Biosensor Using Nick-HCR Nanostructure as Molecular Gate of Nanochannel for Detecting Chromium(III) Ions and MicroRNA. Analytical Chemistry, 2019, 91, 14992-14999.	3.2	47
132	Polarity inversion sensitized G-quadruplex metal sensors with K+ tolerance. Biosensors and Bioelectronics, 2019, 145, 111703.	5.3	13
133	Sensors and biosensors based on metal oxide nanomaterials. TrAC - Trends in Analytical Chemistry, 2019, 121, 115690.	5.8	78
134	Detection of IL-8 in human serum using surface-enhanced Raman scattering coupled with highly-branched gold nanoparticles and gold nanocages. New Journal of Chemistry, 2019, 43, 1733-1742.	1.4	16
135	Interfacial synthesis of ultrathin two-dimensional 2PbCO ₃ ·Pb(OH) ₂ nanosheets with high enzyme mimic catalytic activity. Inorganic Chemistry Frontiers, 2019, 6, 498-503.	3.0	1
136	DNA: From Carrier of Genetic Information to Polymeric Materials. Transactions of Tianjin University, 2019, 25, 301-311.	3.3	5
137	Active generation of nanoholes in DNA origami scaffolds for programmed catalysis in nanocavities. Nature Communications, 2019, 10, 4963.	5.8	43
138	Fluorescent Terpolymers via In Situ Allocation of Aliphatic Fluorophore Monomers: Fe(III) Sensor, Highâ€Performance Removals, and Bioimaging. Advanced Healthcare Materials, 2019, 8, 1900980.	3.9	28
139	Enzymatic Synthesis of Cu(II)-Responsive Deoxyribozymes through Polymerase Incorporation of Artificial Ligand-Type Nucleotides. Journal of the American Chemical Society, 2019, 141, 19342-19350.	6.6	58
140	Spectrum-Quantified Morphological Evolution of Enzyme-Protected Silver Nanotriangles by DNA-Guided Postshaping. Journal of the American Chemical Society, 2019, 141, 19533-19537.	6.6	11
141	DNAzymes as Activity-Based Sensors for Metal Ions: Recent Applications, Demonstrated Advantages, Current Challenges, and Future Directions. Accounts of Chemical Research, 2019, 52, 3275-3286.	7.6	185
142	Regulating Transitionâ€Metal Catalysis through Interference by Short RNAs. Angewandte Chemie, 2019, 131, 16552-16556.	1.6	0
143	A novel colorimetric aptasensor for detection of chloramphenicol based on lanthanum ion–assisted gold nanoparticle aggregation and smartphone imaging. Analytical and Bioanalytical Chemistry, 2019, 411, 7511-7518.	1.9	37
144	Nucleic acid-based fluorescent methods for the determination of DNA repair enzyme activities: A review. Analytica Chimica Acta, 2019, 1060, 30-44.	2.6	12
145	Interface-Driven Hybrid Materials Based on DNA-Functionalized Gold Nanoparticles. Matter, 2019, 1, 825-847.	5.0	147
146	An enzyme-free DNA circuit for the amplified detection of Cd ²⁺ based on hairpin probe-mediated toehold binding and branch migration. Chemical Communications, 2019, 55, 11932-11935.	2.2	18
147	Fabrication and Biomedical Applications of "Polymer-Like―Nucleic Acids Enzymatically Produced by Rolling Circle Amplification. ACS Applied Bio Materials, 2019, 2, 4106-4120.	2.3	33

#	Article	IF	CITATIONS
148	Adsorption of DNA Oligonucleotides by Boronic Acid-Functionalized Hydrogel Nanoparticles. Langmuir, 2019, 35, 13727-13734.	1.6	14
149	Aptasensors for environmental monitoring of contaminants in water and soil. Current Opinion in Environmental Science and Health, 2019, 10, 9-21.	2.1	14
150	Rationally Engineered Nucleic Acid Architectures for Biosensing Applications. Chemical Reviews, 2019, 119, 11631-11717.	23.0	207
151	Zinc-based CPs for effective detection of Fe3+ and Cr2O72â^ ions. New Journal of Chemistry, 2019, 43, 1494-1504.	1.4	26
152	Dynamic split G-quadruplex programmed reversible nanodevice. Chemical Communications, 2019, 55, 389-392.	2.2	17
153	Programmable intracellular DNA biocomputing circuits for reliable cell recognitions. Chemical Science, 2019, 10, 2989-2997.	3.7	78
154	Multistage dynamics of Hg ²⁺ –DNA interactions: a single-molecule study. Physical Chemistry Chemical Physics, 2019, 21, 2919-2928.	1.3	6
155	Juvenile myoclonic epilepsy has hyper dynamic functional connectivity in the dorsolateral frontal cortex. NeuroImage: Clinical, 2019, 21, 101604.	1.4	20
156	Coordination-induced structural changes of DNA-based optical and electrochemical sensors for metal ions detection. Dalton Transactions, 2019, 48, 5879-5891.	1.6	16
157	Cluster-based Call, MgII and CdII coordination polymers based on amino-functionalized tri-phenyl tetra-carboxylate: Bi-functional photo-luminescent sensing for Fe3+ and antibiotics. Dyes and Pigments, 2019, 170, 107631.	2.0	28
158	Controlling Matter at the Molecular Scale with DNA Circuits. Annual Review of Biomedical Engineering, 2019, 21, 469-493.	5.7	45
159	Synthesis and Enzymatic Incorporation of a Responsive Ribonucleoside Probe That Enables Quantitative Detection of Metallo-Base Pairs. Organic Letters, 2019, 21, 4646-4650.	2.4	7
160	Metal-Ion Modulated Structural Transformation of Amyloid-Like Dipeptide Supramolecular Self-Assembly. ACS Nano, 2019, 13, 7300-7309.	7.3	121
161	Inkjet printed electrochemical aptasensor for detection of Hg2+ in organic solvents. Electrochimica Acta, 2019, 316, 33-42.	2.6	30
162	Growing prospects of DNA nanomaterials in novel biomedical applications. RSC Advances, 2019, 9, 16479-16491.	1.7	21
163	Aqueous Phase Sensing of Fe ³⁺ and Ascorbic Acid by a Metal–Organic Framework and Its Implication in the Construction of Multiple Logic Gates. Chemistry - an Asian Journal, 2019, 14, 2822-2830.	1.7	44
164	Functional nucleic acids tailoring and its application. TrAC - Trends in Analytical Chemistry, 2019, 118, 138-157.	5.8	49
165	Selection of DNAzymes for Sensing Aquatic Bacteria: <i>Vibrio Anguillarum</i> . Analytical Chemistry, 2019, 91, 7887-7893.	3.2	34

#	Article	IF	CITATIONS
166	DNA Nanotechnology as an Emerging Tool to Study Mechanotransduction in Living Systems. Small, 2019, 15, e1900961.	5.2	67
167	Biocompatible gold nanoclusters: synthetic strategies and biomedical prospects. Nanotechnology, 2019, 30, 352001.	1.3	34
168	Coordination polymers of Tb3+/Nucleotide as smart chemical nose/tongue toward pattern-recognition-based and time-resolved fluorescence sensing. Biosensors and Bioelectronics, 2019, 139, 111335.	5.3	25
169	Enhancing Catalytic Activity of Uranyl-Dependent DNAzyme by Flexible Linker Insertion for More Sensitive Detection of Uranyl Ion. Analytical Chemistry, 2019, 91, 6608-6615.	3.2	21
171	A microRNA-triggered self-powered DNAzyme walker operating in living cells. Biosensors and Bioelectronics, 2019, 136, 31-37.	5.3	63
172	Phosphorothioate DNA Mediated Sequence-Insensitive Etching and Ripening of Silver Nanoparticles. Frontiers in Chemistry, 2019, 7, 198.	1.8	5
173	Nucleic Acid Amplification Strategies for In Vitro and In Vivo Metal Ion Detection. , 2019, , 265-287.		0
174	A ribose modification of Spinach aptamer accelerates lead(ii) cation association in vitro. Chemical Communications, 2019, 55, 5882-5885.	2.2	4
175	An investigation of solid-state nanopores on label-free metal-ion signalling <i>via</i> the transition of RNA-cleavage DNAzyme and the hybridization chain reaction. Nanoscale, 2019, 11, 10339-10347.	2.8	27
176	Use of rhodizonic acid for rapid detection of root border cell trapping of lead and reversal of trapping with DN ase. Applications in Plant Sciences, 2019, 7, e01240.	0.8	6
177	Probing Local Folding Allows Robust Metal Sensing Based on a Na + â€Specific DNAzyme. ChemBioChem, 2019, 20, 2241-2247.	1.3	4
178	A review on nanomaterial-based electrochemical, optical, photoacoustic and magnetoelastic methods for determination of uranyl cation. Mikrochimica Acta, 2019, 186, 289.	2.5	31
179	Label-Free and Enzyme-Free Colorimetric Detection of Pb ²⁺ Based on RNA Cleavage and Annealing-Accelerated Hybridization Chain Reaction. Analytical Chemistry, 2019, 91, 4806-4813.	3.2	84
180	Expanding DNA nanomachine functionality through binding-induced DNA output for application in clinical diagnosis. Chemical Communications, 2019, 55, 3610-3613.	2.2	12
181	Engineering of Nucleic Acids and Synthetic Cofactors as Holo Sensors for Probing Signaling Molecules in the Cellular Membrane Microenvironment. Angewandte Chemie - International Edition, 2019, 58, 6590-6594.	7.2	76
182	Sites of high local frustration in DNA origami. Nature Communications, 2019, 10, 1061.	5.8	26
183	Ultrasensitive Detection of Pb ²⁺ Based on a DNAzyme and Digital PCR. Journal of Analytical Methods in Chemistry, 2019, 2019, 1-6.	0.7	7
184	Singleâ€gap Microelectrode Functionalized with Singleâ€walled Carbon Nanotubes and Pbzyme for the Determination of Pb 2+. Electroanalysis, 2019, 31, 1174-1181.	1.5	12

# 185	ARTICLE DNA-mediated coordinative assembly of upconversion hetero-nanostructures for targeted dual-modality imaging of cancer cells. Chinese Chemical Letters, 2019, 30, 899-902.	IF 4.8	CITATIONS
186	Imaging Observations of Chromospheric Evaporation in a Circular-ribbon Flare. Astrophysical Journal, 2019, 870, 109.	1.6	11
187	Handheld, low-cost electronic device for rapid, real-time fluorescence-based detection of Hg2+, using aptamer-templated ZnO quantum dots. Sensors and Actuators B: Chemical, 2019, 290, 73-78.	4.0	55
188	Engineering of Nucleic Acids and Synthetic Cofactors as Holo Sensors for Probing Signaling Molecules in the Cellular Membrane Microenvironment. Angewandte Chemie, 2019, 131, 6662-6666.	1.6	12
189	Microfluidic Technology for Nucleic Acid Aptamer Evolution and Application. Advanced Biology, 2019, 3, e1900012.	3.0	24
190	En Route Activity of Hydration Water Allied with Uranyl (UO ₂ ²⁺) Salts Amid Complexation Reactions with an Organothio-Based (O, N, S) Donor Base. Inorganic Chemistry, 2019, 58, 4972-4978.	1.9	3
192	Graphene-Based Steganographically Aptasensing System for Information Computing, Encryption and Hiding, Fluorescence Sensing and in Vivo Imaging of Fish Pathogens. ACS Applied Materials & Interfaces, 2019, 11, 8904-8914.	4.0	26
193	Target-induced structure switching of aptamers facilitates strand displacement for DNAzyme recycling amplification detection of thrombin in human serum. Analyst, The, 2019, 144, 2430-2435.	1.7	23
194	Heating promoted fluorescent recognition of Cu2+ with high selectivity and sensitivity based on spiropyran derivative. Analytica Chimica Acta, 2019, 1061, 161-168.	2.6	14
195	The literature of heterocyclic chemistry, part XVII, 2017. Advances in Heterocyclic Chemistry, 2019, 129, 337-418.	0.9	5
196	Nucleotide and DNA coordinated lanthanides: From fundamentals to applications. Coordination Chemistry Reviews, 2019, 387, 235-248.	9.5	54
197	Molecular Imprinting with Functional DNA. Small, 2019, 15, e1805246.	5.2	53
198	Progress in rapid optical assays for heavy metal ions based on the use of nanoparticles and receptor molecules. Mikrochimica Acta, 2019, 186, 172.	2.5	55
199	Colorimetric Technique for Antimony Detection Based on the Use of Gold Nanoparticles Conjugated with Poly-A Oligonucleotide. Applied Sciences (Switzerland), 2019, 9, 4782.	1.3	8
200	Colorimetric determination of nine metal ions based on the de-aggregation of papain-functionalized gold nanoparticles and using three chelating agents. Mikrochimica Acta, 2019, 186, 854.	2.5	5
201	Multivalent Cation-Induced Actuation of DNA-Mediated Colloidal Superlattices. Journal of the American Chemical Society, 2019, 141, 19973-19977.	6.6	23
202	Origin of Luminescenceâ€Based Detection of Metal Ions by Mn–Doped ZnS Quantum Dots. ChemistrySelect, 2019, 4, 13551-13557.	0.7	3
203	Freezingâ€directed Stretching and Alignment of DNA Oligonucleotides. Angewandte Chemie - International Edition, 2019, 58, 2109-2113.	7.2	42

-			_	
\mathbf{C}		ION	DEDC	דתר
	IIAI		NEPU	ואכ

#	Article	IF	CITATIONS
204	Freezingâ€directed Stretching and Alignment of DNA Oligonucleotides. Angewandte Chemie, 2019, 131, 2131-2135.	1.6	16
205	Amplified MicroRNA Detection and Intracellular Imaging Based on an Autonomous and Catalytic Assembly of DNAzyme. ACS Sensors, 2019, 4, 110-117.	4.0	88
206	Global Folding of a Na ⁺ â€Specific DNAzyme Studied by FRET. ChemBioChem, 2019, 20, 385-393.	1.3	3
207	Re-engineering 10–23 core DNA- and MNAzymes for applications at standard room temperature. Analytical and Bioanalytical Chemistry, 2019, 411, 205-215.	1.9	9
208	Ultrasensitive DNA biosensor based on electrochemical atom transfer radical polymerization. Biosensors and Bioelectronics, 2019, 131, 193-199.	5.3	34
209	Influence of Linker Length on Ligase atalyzed Oligonucleotide Polymerization. ChemBioChem, 2019, 20, 793-799.	1.3	2
210	Task-specific ionic liquid-enabled mercury sensor for sensitive detection of total mercury in food digestion solution. Sensors and Actuators B: Chemical, 2019, 285, 62-67.	4.0	16
211	Nucleobase carbonyl groups are poor Mg ²⁺ inner-sphere binders but excellent monovalent ion binders—a critical PDB survey. Rna, 2019, 25, 173-192.	1.6	31
212	DNA-Based Scaffolds for Sensing Applications. Analytical Chemistry, 2019, 91, 44-59.	3.2	80
213	Engineering Multifunctional DNA Hybrid Nanospheres through Coordinationâ€Driven Selfâ€Assembly. Angewandte Chemie, 2019, 131, 1364-1368.	1.6	26
214	Engineering Multifunctional DNA Hybrid Nanospheres through Coordinationâ€Driven Selfâ€Assembly. Angewandte Chemie - International Edition, 2019, 58, 1350-1354.	7.2	149
215	Instantaneous Iodine-Assisted DNAzyme Cleavage of Phosphorothioate RNA. Biochemistry, 2019, 58, 422-429.	1.2	5
216	G-quadruplex-assisted enzyme strand recycling for amplified label-free fluorescent detection of UO22+. Chinese Chemical Letters, 2019, 30, 58-62.	4.8	26
217	Three dimensional DNA nanotracks: A novel method for ultrasensitive and visible mercury (II) detection. Sensors and Actuators B: Chemical, 2020, 303, 126988.	4.0	14
218	Cationic copolymer-chaperoned short-armed 10–23 DNAzymes. Nucleosides, Nucleotides and Nucleic Acids, 2020, 39, 156-169.	0.4	4
219	Gâ€Quadruplexâ€Based Photooxidase Driven by Visible Light. ChemCatChem, 2020, 12, 169-174.	1.8	7
220	Biodegradable MnO2 nanosheet based DNAzyme-recycling amplification towards: Sensitive detection of intracellular MicroRNAs. Talanta, 2020, 206, 120199.	2.9	13
221	Nucleicâ€Acid Structures as Intracellular Probes for Live Cells. Advanced Materials, 2020, 32, e1901743.	11.1	112

#	Article	IF	CITATIONS
222	Replacing Mg ²⁺ by Fe ²⁺ for RNA leaving DNAzymes. ChemBioChem, 2020, 21, 401-407.	1.3	11
223	A label-free colorimetric aptasensor based on controllable aggregation of AuNPs for the detection of multiplex antibiotics. Food Chemistry, 2020, 304, 125377.	4.2	109
224	A DNA-based biosensor for aqueous Hg(II): Performance under variable pH, temperature and competing ligand composition. Journal of Hazardous Materials, 2020, 385, 121572.	6.5	20
225	Signal Amplification in Living Cells: A Review of microRNA Detection and Imaging. Analytical Chemistry, 2020, 92, 292-308.	3.2	148
226	A portable device enabling fluorescent-to-electric resistant transduction for selective Cr3+ detection based on its slow ligand bind kinetics. Sensors and Actuators B: Chemical, 2020, 304, 127283.	4.0	8
227	A stable multifunctional cadmium-organic framework based on 2D stacked layers: Effective gas adsorption, and excellent detection of Cr3+, CrO42â^', and Cr2O72 Dyes and Pigments, 2020, 174, 108011.	2.0	23
228	Nucleic Acid Catalysis under Potential Prebiotic Conditions. Chemistry - an Asian Journal, 2020, 15, 214-230.	1.7	19
229	Catalytic hairpin assembly-based double-end DNAzyme cascade-feedback amplification for sensitive fluorescence detection of HIV-1 DNA. Analytica Chimica Acta, 2020, 1096, 159-165.	2.6	30
230	Biosensors Made of Synthetic Functional Nucleic Acids Toward Better Human Health. Analytical Chemistry, 2020, 92, 327-344.	3.2	60
231	Nanomaterials for molecular signal amplification in electrochemical nucleic acid biosensing: recent advances and future prospects for point-of-care diagnostics. Molecular Systems Design and Engineering, 2020, 5, 49-66.	1.7	53
232	Engineering DNAzyme cascade for signal transduction and amplification. Analyst, The, 2020, 145, 1925-1932.	1.7	3
233	Nucleoside-based fluorescent carbon dots for discrimination of metal ions. Journal of Materials Chemistry B, 2020, 8, 3640-3646.	2.9	18
234	Characterization and application of fluidic properties of trinucleotide repeat sequences by wax-on-plastic microfluidics. Journal of Materials Chemistry B, 2020, 8, 743-751.	2.9	9
235	A portable visual capillary sensor based on functional DNA crosslinked hydrogel for point-of-care detection of lead ion. Sensors and Actuators B: Chemical, 2020, 307, 127625.	4.0	49
236	Target Selfâ€Enhanced Selectivity in Metalâ€ S pecific DNAzymes. Angewandte Chemie, 2020, 132, 3601-3605.	1.6	10
237	Target Selfâ€Enhanced Selectivity in Metalâ€Specific DNAzymes. Angewandte Chemie - International Edition, 2020, 59, 3573-3577.	7.2	43
238	Translating inÂvitro diagnostics from centralized laboratories to point-of-care locations using commercially-available handheld meters. TrAC - Trends in Analytical Chemistry, 2020, 124, 115782.	5.8	52
239	Does jasmonic acid regulate photosynthesis, clastogenecity, and phytochelatins in Brassica juncea L. in response to Pb-subcellular distribution?. Chemosphere, 2020, 243, 125361.	4.2	42

#	Article	IF	Citations
240	Dual-target electrochemical aptasensor based on co-reduced molybdenum disulfide and Au NPs (rMoS2-Au) for multiplex detection of mycotoxins. Biosensors and Bioelectronics, 2020, 150, 111894.	5.3	78
241	DNAzymeâ€Mediated Genetically Encoded Sensors for Ratiometric Imaging of Metal Ions in Living Cells. Angewandte Chemie, 2020, 132, 1907-1912.	1.6	11
242	DNAzymeâ€Mediated Genetically Encoded Sensors for Ratiometric Imaging of Metal Ions in Living Cells. Angewandte Chemie - International Edition, 2020, 59, 1891-1896.	7.2	59
243	Design of smart chemical â€~tongue' sensor arrays for pattern-recognition-based biochemical sensing applications. TrAC - Trends in Analytical Chemistry, 2020, 124, 115794.	5.8	39
244	Encapsulation and Release of Recognition Probes Based on a Rigid Three-Dimensional DNA "Nanosafe-box―for Construction of a Electrochemical Biosensor. Analytical Chemistry, 2020, 92, 1811-1817.	3.2	11
245	A new bivalent fluorescent fusion protein for differential Cu(II) and Zn(II) ion detection in aqueous solution. Analytica Chimica Acta, 2020, 1101, 120-128.	2.6	13
246	Incorporation of Boronic Acid into Aptamer-Based Molecularly Imprinted Hydrogels for Highly Specific Recognition of Adenosine. ACS Applied Bio Materials, 2020, 3, 2568-2576.	2.3	20
247	Extended GR-5 DNAzyme-based Autonomous isothermal Cascade machine: An efficient and sensitive one-tube colorimetric platform for Pb2+ detection. Sensors and Actuators B: Chemical, 2020, 304, 127366.	4.0	24
248	Improved performances of catalytic G-quadruplexes (G4-DNAzymes) via the chemical modifications of the DNA backbone to provide G-quadruplexes with double 3′-external G-quartets. International Journal of Biological Macromolecules, 2020, 151, 976-983.	3.6	11
249	Catalytic Nucleic Acids for Bioanalysis. ACS Applied Bio Materials, 2020, 3, 2674-2685.	2.3	15
250	The Two Classic Pb ²⁺ â€Selective DNAzymes Are Related: Rational Evolution for Understanding Metal Selectivity. ChemBioChem, 2020, 21, 1293-1297.	1.3	16
251	A 2D lanthanum coordination polymer as a multiresponsive luminescent chemosensor with fast response and high sensitivity. Journal of Solid State Chemistry, 2020, 283, 121173.	1.4	4
252	Recent development of amorphous metal coordination polymers for cancer therapy. Acta Biomaterialia, 2020, 116, 16-31.	4.1	30
253	Conjugation of antibodies and aptamers on nanozymes for developing biosensors. Biosensors and Bioelectronics, 2020, 168, 112537.	5.3	113
254	Suppressing the background activity of hemin for boosting the sensitivity of DNAzyme-based biosensors by SYBR Green I. Biosensors and Bioelectronics, 2020, 169, 112603.	5.3	16
255	Smart Bilayer Polyacrylamide/DNA Hybrid Hydrogel Film Actuators Exhibiting Programmable Responsive and Reversible Macroscopic Shape Deformations. Small, 2020, 16, e1906998.	5.2	43
256	Direct Measurement of Aqueous Mercury(II): Combining DNA-Based Sensing with Diffusive Gradients in Thin Films. Environmental Science & amp; Technology, 2020, 54, 13680-13689.	4.6	16
257	Fluorescence resonance energy transfer-based DNA framework assembled split G-quadruplex nanodevices for microRNA sensing. Chemical Communications, 2020, 56, 13583-13586.	2.2	9

#	Article	IF	CITATIONS
258	Biological, biomolecular, and bio-inspired strategies for detection, extraction, and separations of lanthanides and actinides. Chemical Society Reviews, 2020, 49, 8315-8334.	18.7	34
259	Interfacing Catalytic DNA with Nanomaterials. Advanced Materials Interfaces, 2020, 7, 2001017.	1.9	22
260	G-quadruplex DNA for construction of biosensors. TrAC - Trends in Analytical Chemistry, 2020, 132, 116060.	5.8	60
261	Opposite Effects of Flexible Single-Stranded DNA Regions and Rigid Loops in DNAzyme on Colloidal Nanoparticle Stability for "Turn-On―Plasmonic Detection of Lead Ions. ACS Applied Bio Materials, 2020, 3, 7003-7010.	2.3	29
262	A poly(thymine)–melamine duplex for the assembly of DNA nanomaterials. Nature Materials, 2020, 19, 1012-1018.	13.3	62
263	Four-in-One: Advanced Copper Nanocomposites for Multianalyte Assays and Multicoding Logic Gates. ACS Nano, 2020, 14, 9107-9116.	7.3	10
264	DNA Functional Materials Assembled from Branched DNA: Design, Synthesis, and Applications. Chemical Reviews, 2020, 120, 9420-9481.	23.0	313
265	A DNAzyme cascade for amplified detection of intracellular miRNA. Chemical Communications, 2020, 56, 10163-10166.	2.2	17
266	Core–Shell Nanosystems for Self-Activated Drug–Gene Combinations against Triple-Negative Breast Cancer. ACS Applied Materials & Interfaces, 2020, 12, 53654-53664.	4.0	43
267	Cooperative Metal Ion-Mediated Adsorption of Spherical Nucleic Acids with a Large Hysteresis. Langmuir, 2020, 36, 14324-14332.	1.6	6
268	Rapid and selective electrochemical detection of pb2+ ions using aptamer-conjugated alloy nanoparticles. SN Applied Sciences, 2020, 2, 1.	1.5	19
269	In vitro Selection of Chemically Modified DNAzymes. ChemistryOpen, 2020, 9, 1046-1059.	0.9	28
270	Bioinspired Supramolecular Catalysts from Designed Self-Assembly of DNA or Peptides. ACS Catalysis, 2020, 10, 14937-14958.	5.5	48
271	Sensing guanine and its derivatives: From molecular recognition to applications. Sensors and Actuators Reports, 2020, 2, 100020.	2.3	3
272	Interfacing DNA with Gold Nanoparticles for Heavy Metal Detection. Biosensors, 2020, 10, 167.	2.3	24
273	A Smart Theranostic Nanocapsule for Spatiotemporally Programmable Photoâ€Gene Therapy. Angewandte Chemie, 2020, 132, 21832-21839.	1.6	19
274	A Smart Theranostic Nanocapsule for Spatiotemporally Programmable Photoâ€Gene Therapy. Angewandte Chemie - International Edition, 2020, 59, 21648-21655.	7.2	82
275	Sharp Switching of DNAzyme Activity through the Formation of a Cu ^{II} â€Mediated Carboxyimidazole Base Pair. Angewandte Chemie - International Edition, 2020, 59, 21488-21492.	7.2	45

#	Article	IF	CITATIONS
276	Nanopore Detection of Metal Ions: Current Status and Future Directions. Small Methods, 2020, 4, 2000266.	4.6	48
277	Sharp Switching of DNAzyme Activity through the Formation of a Cu II â€Mediated Carboxyimidazole Base Pair. Angewandte Chemie, 2020, 132, 21672-21676.	1.6	5
278	A DNAzyme-mediated logic gate system based on Ag(i)–cysteine. Analyst, The, 2020, 145, 6572-6578.	1.7	3
279	Heating Drives DNA to Hydrophobic Regions While Freezing Drives DNA to Hydrophilic Regions of Graphene Oxide for Highly Robust Biosensors. Journal of the American Chemical Society, 2020, 142, 14702-14709.	6.6	34
280	Novel alkaline earth metal–organic frameworks with thiophene groups for selective detection of Fe ³⁺ . CrystEngComm, 2020, 22, 5970-5979.	1.3	7
281	Discrimination of copper and silver ions based on the label-free quantum dots. Talanta, 2020, 220, 121430.	2.9	17
282	Facile Approach to Fabricate a Chemical Sensor Array Based on Nanocurcumin–Metal Ions Aggregates: Detection and Identification of DNA Nucleobases. ACS Omega, 2020, 5, 19331-19341.	1.6	8
283	Highly selective and sensitive dual-fluorescent probe for cationic Pb2+ and anionic Cr2O72â´', CrO42â´' contaminants via a powerful indiumâ´organic framework. Journal of Solid State Chemistry, 2020, 291, 121672.	1.4	17
284	Sulfadiazine hosted in MIL-53(Al) as a biocide topical delivery system. RSC Advances, 2020, 10, 25645-25651.	1.7	8
285	Metalloenzyme-mimic innate G-quadruplex DNAzymes using directly coordinated metal ions as active centers. Dalton Transactions, 2020, 49, 13160-13166.	1.6	2
286	Interfacing DNA and Polydopamine Nanoparticles and Its Applications. Particle and Particle Systems Characterization, 2020, 37, 2000208.	1.2	20
287	Highly-sensitive mercury ion sensor based on DNA modified micro-nano fiber. , 2020, , .		0
288	Salacia mulbarica leaf extract mediated synthesis of silver nanoparticles for antibacterial and ctâ€DNA damage via releasing of reactive oxygen species. IET Nanobiotechnology, 2020, 14, 485-490.	1.9	4
289	Hierarchically Structured DNAâ€Based Hydrogels Exhibiting Enhanced Enzymeâ€Responsive and Mechanical Properties. Advanced Functional Materials, 2020, 30, 2006305.	7.8	25
290	DNA Nanotechnology. Topics in Current Chemistry Collections, 2020, , .	0.2	0
291	Promoting DNA Adsorption by Acids and Polyvalent Cations: Beyond Charge Screening. Langmuir, 2020, 36, 11183-11195.	1.6	35
292	Kanamycin Adsorption on Gold Nanoparticles Dominates Its Label-Free Colorimetric Sensing with Its Aptamer. Langmuir, 2020, 36, 11490-11498.	1.6	42
293	DNAzyme–gold nanoparticle-based probes for biosensing and bioimaging. Journal of Materials Chemistry B, 2020, 8, 9449-9465.	2.9	29

#	Article	IF	CITATIONS
294	Covalent and Noncovalent Functionalization of Graphene Oxide with DNA for Smart Sensing. Advanced Intelligent Systems, 2020, 2, 2000123.	3.3	58
295	Application of 2D Nanomaterials as Fluorescent Biosensors. ACS Symposium Series, 2020, , 117-141.	0.5	10
296	Detection and beyond: challenges and advances in aptamer-based biosensors. Materials Advances, 2020, 1, 2663-2687.	2.6	133
297	Mechanical Flexibility of DNA: A Quintessential Tool for DNA Nanotechnology. Sensors, 2020, 20, 7019.	2.1	20
298	Nucleic Acid Based Constitutional Dynamic Networks: From Basic Principles to Applications. Journal of the American Chemical Society, 2020, 142, 21577-21594.	6.6	56
299	DNAzyme Sensor for the Detection of Ca2+ Using Resistive Pulse Sensing. Sensors, 2020, 20, 5877.	2.1	5
300	Insight into an Oxidative DNA-Cleaving DNAzyme: Multiple Cofactors, the Catalytic Core Map and a Highly Efficient Variant. IScience, 2020, 23, 101555.	1.9	3
301	A pH-triggered G-triplex switch with K ⁺ tolerance. Chemical Communications, 2020, 56, 7349-7352.	2.2	4
302	Allosteric Regulation of DNAzyme Activities through Intrastrand Transformation Induced by Cu(II)-Mediated Artificial Base Pairing. Journal of the American Chemical Society, 2020, 142, 10153-10162.	6.6	76
303	Aptamer-Based Biosensors for Environmental Monitoring. Frontiers in Chemistry, 2020, 8, 434.	1.8	138
304	Naked eye Y amelogenin gene fragment detection using DNAzymes on a paper-based device. Analytica Chimica Acta, 2020, 1123, 1-8.	2.6	11
305	Co-delivery of doxorubicin and DNAzyme using ZnO@polydopamine core-shell nanocomposites for chemo/gene/photothermal therapy. Acta Biomaterialia, 2020, 110, 242-253.	4.1	48
306	QM/MM-MD dissociation of Ag+ and H+ mediated cytosine pairs: Monomers and dimers. Journal of Organometallic Chemistry, 2020, 919, 121333.	0.8	6
307	Selection of a metal ligand modified DNAzyme for detecting Ni2+. Biosensors and Bioelectronics, 2020, 165, 112285.	5.3	34
308	Divalent metal ions and intermolecular interactions facilitate DNA network formation. Colloids and Surfaces B: Biointerfaces, 2020, 194, 111117.	2.5	13
309	Cationic copolymer enhances 8–17 DNAzyme and MNAzyme activities. Biomaterials Science, 2020, 8, 3812-3818.	2.6	11
310	Metal organic framework coated MnO2 nanosheets delivering doxorubicin and self-activated DNAzyme for chemo-gene combinatorial treatment of cancer. International Journal of Pharmaceutics, 2020, 585, 119513.	2.6	36
312	DNA thermotropic liquid crystals controlled by positively charged catanionic bilayer vesicles. Chemical Communications, 2020, 56, 3484-3487.	2.2	13

#	Article	IF	Citations
313	Transition Metal-Mediated DNA Adsorption on Polydopamine Nanoparticles. Langmuir, 2020, 36, 3260-3267.	1.6	25
314	Pb ²⁺ as a Substrate and a Cofactor of a Porphyrin Metalation DNAzyme. ChemBioChem, 2020, 21, 2259-2263.	1.3	9
315	Versatile Sensing Platform for Cd ²⁺ Detection in Rice Samples and Its Applications in Logic Gate Computation. Analytical Chemistry, 2020, 92, 6173-6180.	3.2	46
316	Ionic amplifying circuits inspired by electronics and biology. Nature Communications, 2020, 11, 1568.	5.8	45
317	Nanosensors for better diagnosis of health. , 2020, , 187-228.		2
318	Recent progress on electrochemical biosensing of aflatoxins: A review. TrAC - Trends in Analytical Chemistry, 2020, 133, 115966.	5.8	53
319	Insights into DNA catalysis from structural and functional studies of the 8-17 DNAzyme. Organic and Biomolecular Chemistry, 2020, 18, 1697-1709.	1.5	36
320	Aptamer-Functionalized DNA Nanostructures for Biological Applications. Topics in Current Chemistry, 2020, 378, 21.	3.0	27
321	Subtle sequence variations alter tripartite complex kinetics and G-quadruplex dynamics in RNA aptamer Broccoli. Chemical Communications, 2020, 56, 2634-2637.	2.2	5
322	Sequential Ag ⁺ /biothiol and synchronous Ag ⁺ /Hg ²⁺ biosensing with zwitterionic Cu ²⁺ -based metal–organic frameworks. Analyst, The, 2020, 145, 2779-2788.	1.7	22
323	Cu2+-based distance measurements by pulsed EPR provide distance constraints for DNA backbone conformations in solution. Nucleic Acids Research, 2020, 48, e49-e49.	6.5	28
324	Light-Emitting Multifunctional Maleic Acid- <i>co</i> -2-(<i>N</i> (hydroxymethyl)acrylamido)succinic Acid- <i>co</i> - <i>N</i> (hydroxymethyl)acrylamide for Fe(III) Sensing, Removal, and Cell Imaging. ACS Omega, 2020, 5, 3333-3345.	1.6	20
325	DNA branched junctions induced the enhanced fluorescence recovery of FAM-labeled probes on rGO for detecting Pb2+. Analytical and Bioanalytical Chemistry, 2020, 412, 2455-2463.	1.9	14
326	Molecular dynamics simulations of alkaline earth metal ions binding to DNA reveal ion size and hydration effects. Physical Chemistry Chemical Physics, 2020, 22, 5584-5596.	1.3	20
327	Titanium Carbide MXenes Mediated <i>In Situ</i> Reduction Allows Label-Free and Visualized Nanoplasmonic Sensing of Silver Ions. Analytical Chemistry, 2020, 92, 4623-4629.	3.2	57
328	"Apollo Program―in Nanoscale: Landing and Exploring Cell-Surface with DNA Nanotechnology. ACS Applied Bio Materials, 2020, 3, 2723-2742.	2.3	22
329	Ultrasensitive Visualization of Virus via Explosive Catalysis of an Enzyme Muster Triggering Gold Nano-aggregate Disassembly. ACS Applied Materials & Interfaces, 2020, 12, 12525-12532.	4.0	14
330	Photoactivatable fluorescent probes for spatiotemporal-controlled biosensing and imaging. TrAC - Trends in Analytical Chemistry, 2020, 125, 115811.	5.8	33

#	Article	IF	CITATIONS
331	Catalytic Nucleic Acids: Biochemistry, Chemical Biology, Biosensors, and Nanotechnology. IScience, 2020, 23, 100815.	1.9	117
332	A Smart, Autocatalytic, DNAzyme Biocircuit for inâ€Vivo, Amplified, MicroRNA Imaging. Angewandte Chemie, 2020, 132, 6021-6027.	1.6	31
333	Yttrium Oxide as a Strongly Adsorbing but Nonquenching Surface for DNA Oligonucleotides. Langmuir, 2020, 36, 1034-1042.	1.6	7
334	Sensitivity of a classic DNAzyme for Pb ²⁺ modulated by cations, anions and buffers. Analyst, The, 2020, 145, 1384-1388.	1.7	14
335	Simultaneous detection of mercury (II), lead (II) and silver (I) based on fluorescently labelled aptamer probes and graphene oxide. Environmental Technology (United Kingdom), 2021, 42, 3065-3072.	1.2	22
336	Tailoring and optimization of hybrid ZnO:TiO2:CdO nanomaterials for advance oxidation process under visible light. Applied Surface Science, 2020, 509, 145326.	3.1	52
337	A Smart, Autocatalytic, DNAzyme Biocircuit for inâ€Vivo, Amplified, MicroRNA Imaging. Angewandte Chemie - International Edition, 2020, 59, 5965-5971.	7.2	155
338	Reduced texaphyrin: A ratiometric optical sensor for heavy metals in aqueous solution. Frontiers of Chemical Science and Engineering, 2020, 14, 19-27.	2.3	3
339	Syntheses and crystal structures of new aurate salts of adenine or guanine nucleobases. Acta Crystallographica Section C, Structural Chemistry, 2020, 76, 139-147.	0.2	1
340	High-performance biosensing based on autonomous enzyme-free DNA circuits. Topics in Current Chemistry, 2020, 378, 20.	3.0	29
341	An intelligent nanodevice based on the synergistic effect of telomerase-triggered photodynamic therapy and gene-silencing for precise cancer cell therapy. Nanoscale, 2020, 12, 10380-10389.	2.8	19
342	Tailoring pillararene-based receptors for specific metal ion binding: From recognition to supramolecular assembly. Coordination Chemistry Reviews, 2020, 415, 213313.	9.5	55
343	DNA hydrogel-based gene editing and drug delivery systems. Advanced Drug Delivery Reviews, 2021, 168, 79-98.	6.6	155
344	Zn ²⁺ â€Dependent DNAzymes: From Solution Chemistry to Analytical, Materials and Therapeutic Applications. ChemBioChem, 2021, 22, 779-789.	1.3	32
345	Rational Control of the Activity of a Cu ²⁺ -Dependent DNAzyme by Re-engineering Purely Entropic Intrinsically Disordered Domains. ACS Applied Materials & Interfaces, 2021, 13, 9300-9305.	4.0	5
346	Ligand reduction and cation exchange on nanostructures for an elegant design of copper ions photoelectrochemical sensing. Sensors and Actuators B: Chemical, 2021, 328, 129032.	4.0	14
347	DNA Triplex and Quadruplex Assembled Nanosensors for Correlating K + and pH in Lysosomes. Angewandte Chemie, 2021, 133, 5513-5518.	1.6	43
348	Label-free DNAzyme assays for dually amplified and one-pot detection of lead pollution. Journal of Hazardous Materials, 2021, 406, 124790.	6.5	31

#	Article	IF	CITATIONS
349	Surfactant assemblies encapsulating fluorescent probes as selective and discriminative sensors for metal ions. Coordination Chemistry Reviews, 2021, 432, 213696.	9.5	21
350	Enzyme-free dual-DNA walker based on catalytic hairpin assembled DNAzyme for sensing telomerase activity. Sensors and Actuators B: Chemical, 2021, 329, 129078.	4.0	20
351	DNA Triplex and Quadruplex Assembled Nanosensors for Correlating K ⁺ and pH in Lysosomes. Angewandte Chemie - International Edition, 2021, 60, 5453-5458.	7.2	61
352	Sensing of inorganic ions in microfluidic devices. Sensors and Actuators B: Chemical, 2021, 329, 129171.	4.0	28
353	Nucleic Acids Analysis. Science China Chemistry, 2021, 64, 171-203.	4.2	88
354	Enzymatical biomineralization of DNA nanoflowers mediated by manganese ions for tumor site activated magnetic resonance imaging. Biomaterials, 2021, 268, 120591.	5.7	51
355	Efficient Screening of Glycan-Specific Aptamers Using a Glycosylated Peptide as a Scaffold. Analytical Chemistry, 2021, 93, 956-963.	3.2	21
356	Visual detection of different metal ions based on the tug of war between triangular Au nanoparticles and metal ions against mercaptans. Analytical Methods, 2021, 13, 227-231.	1.3	0
357	AIE-based luminescence probes for metal ion detection. Coordination Chemistry Reviews, 2021, 429, 213693.	9.5	157
358	DNA Nanomachines for Identifying Cancer Biomarkers in Body Fluids and Cells. Analytical Chemistry, 2021, 93, 1855-1865.	3.2	31
359	Metal-induced G-quadruplex polymorphism for ratiometric and label-free detection of lead pollution in tea. Food Chemistry, 2021, 343, 128425.	4.2	33
360	Biopolymerâ€based Carriers for DNA Vaccine Design. Angewandte Chemie - International Edition, 2021, 60, 13225-13243.	7.2	35
361	Biopolymerâ€based Carriers for DNA Vaccine Design. Angewandte Chemie, 2021, 133, 13333-13351.	1.6	5
362	Funktionelle Nukleinsäreâ€Nanomaterialien: Entwicklung, Eigenschaften und Anwendungen. Angewandte Chemie, 2021, 133, 6966-6995.	1.6	4
363	Functional Nucleic Acid Nanomaterials: Development, Properties, and Applications. Angewandte Chemie - International Edition, 2021, 60, 6890-6918.	7.2	122
364	Nanozymes for Environmental Pollutant Monitoring and Remediation. Sensors, 2021, 21, 408.	2.1	44
365	Biosensing with DNAzymes. Chemical Society Reviews, 2021, 50, 8954-8994.	18.7	193
366	Metal Ion Interactions With DNA, RNA, and Nucleic Acid Enzymes. , 2021, , 968-993.		4

#	Article	IF	CITATIONS
367	Selection of a self-cleaving ribozyme activated in a chemically and thermally denaturing environment. Chemical Communications, 2021, 57, 7641-7644.	2.2	3
368	Limitations for colorimetric aggregation assay of metal ions and ways of their overcoming. Analytical Methods, 2021, 13, 250-257.	1.3	1
369	Mn–DNA coordination of nanoparticles for efficient chemodynamic therapy. Chemical Communications, 2021, 57, 1734-1737.	2.2	27
370	Mixed matrix membranes containing fluorescent coordination polymers for detecting Cr ₂ O ₇ ^{2â^²} with high sensitivity, stability and recyclability. Dalton Transactions, 2021, 50, 7944-7948.	1.6	9
371	Porphyrin metalation catalyzed by DNAzymes and nanozymes. Inorganic Chemistry Frontiers, 2021, 8, 2183-2199.	3.0	18
372	Chemosensors Development for Selective Detection of Biologically Relevant Small Molecules and Biomolecules. Studies in Systems, Decision and Control, 2021, , 229-251.	0.8	0
373	DNAzyme-Au nanoprobe coupled with graphene-oxide–loaded hybridization chain reaction signal amplification for fluorometric determination of alkaline phosphatase. Mikrochimica Acta, 2021, 188, 7.	2.5	17
374	An Enzymeâ€Activatable Engineered DNAzyme Sensor for Cellâ€5elective Imaging of Metal Ions. Angewandte Chemie - International Edition, 2021, 60, 6300-6304.	7.2	85
375	Rationally Programming Nanomaterials with DNA for Biomedical Applications. Advanced Science, 2021, 8, 2003775.	5.6	51
376	An Enzymeâ€Activatable Engineered DNAzyme Sensor for Cellâ€5elective Imaging of Metal Ions. Angewandte Chemie, 2021, 133, 6370-6374.	1.6	16
377	Scalable Logic Circuits with Multiple Outputs and an Automatic Reset Function Based on DNAzyme-Mediated Branch Migration. Analytical Chemistry, 2021, 93, 3273-3279.	3.2	16
378	Review of recent progress on DNA-based biosensors for Pb2+ detection. Analytica Chimica Acta, 2021, 1147, 124-143.	2.6	54
379	Ultrasensitive ratiometric detection of Pb2+ using DNA tetrahedron-mediated hyperbranched hybridization chain reaction. Analytica Chimica Acta, 2021, 1147, 170-177.	2.6	21
380	Polyadenine-based fluorescent probe for high-selective determination of copper ion in freshwater. International Journal of Environmental Analytical Chemistry, 0, , 1-13.	1.8	0
381	Direct Detection of DNA and RNA on Carbon Fiber Microelectrodes Using Fast-Scan Cyclic Voltammetry. ACS Omega, 2021, 6, 6571-6581.	1.6	10
382	Detection and Quantification of Tightly Bound Zn ²⁺ in Blood Serum Using a Photocaged Chelator and a DNAzyme Fluorescent Sensor. Analytical Chemistry, 2021, 93, 5856-5861.	3.2	19
383	Differentiating a Least-Stable Single Nucleotide Mismatch in DNA Via Metal Ion-Mediated Base Pairing and Using Thioflavin T as an Extrinsic Fluorophore. Journal of Physical Chemistry Letters, 2021, 12, 2547-2554.	2.1	9
384	Biosensors for wastewater-based epidemiology for monitoring public health. Water Research, 2021, 191, 116787.	5.3	45

# 385	ARTICLE Enzymatic construction of metal-mediated nucleic acid base pairs. Metallomics, 2021, 13, .	IF 1.0	CITATIONS
386	Constructing Large 2D Lattices Out of DNA-Tiles. Molecules, 2021, 26, 1502.	1.7	15
387	Theoretical studies on the electronic and optoelectronic properties of DNA/RNA hybrid-metal complexes. Polyhedron, 2021, 196, 115015.	1.0	2
388	A DNA tetraplex composed of two continuously hydrogen-bonded helical arrays of isoguanine (isoG). Chemical Physics Letters, 2021, 767, 138348.	1.2	0
389	One-Step Synthesis of Single-Stranded DNA-Bridged Iron Oxide Supraparticles as MRI Contrast Agents. Nano Letters, 2021, 21, 2793-2799.	4.5	19
390	G-quadruplex: Flexible conformational changes by cations, pH, crowding and its applications to biosensing. Biosensors and Bioelectronics, 2021, 178, 113030.	5.3	66
391	Aptamer Switches Regulated by Postâ€Transition/Transition Metal Ions. Angewandte Chemie - International Edition, 2021, 60, 12346-12350.	7.2	19
392	DNAzymes as key components of biosensing systems for the detection of biological targets. Biosensors and Bioelectronics, 2021, 177, 112972.	5.3	44
393	A Multifunctional N-Doped Cu–MOFs (N–Cu–MOF) Nanomaterial-Driven Electrochemical Aptasensor for Sensitive Detection of Deoxynivalenol. Molecules, 2021, 26, 2243.	1.7	27
394	Nucleobase, nucleoside, nucleotide, and oligonucleotide coordinated metal ions for sensing and biomedicine applications. Nano Research, 2022, 15, 71-84.	5.8	22
395	A general configurational strategy to quencher-free aptasensors. Biosensors and Bioelectronics, 2021, 178, 113025.	5.3	6
396	Highly Selective Detection of K ⁺ Based on a Dimerized G-Quadruplex DNAzyme. Analytical Chemistry, 2021, 93, 6907-6912.	3.2	11
397	Aptamer Switches Regulated by Postâ€Transition/Transition Metal Ions. Angewandte Chemie, 2021, 133, 12454-12458.	1.6	8
398	Nucleic Acids-based Functional Nanomaterials for Bioimaging. Journal of Analysis and Testing, 2021, 5, 142-154.	2.5	13
399	Organometallic nucleosides—Synthesis, transformations, and applications. Coordination Chemistry Reviews, 2021, 432, 213705.	9.5	25
400	A unified computational view of DNA duplex, triplex, quadruplex and their donor–acceptor interactions. Nucleic Acids Research, 2021, 49, 4919-4933.	6.5	10
401	A Syringeâ€Based DNAzyme Sensor for Bacterial Detection. Analysis & Sensing, 2021, 1, 95-100.	1.1	4
402	Selfâ€Assembly of Copper–DNAzyme Nanohybrids for Dualâ€Catalytic Tumor Therapy. Angewandte Chemie, 2021, 133, 14445-14449	1.6	16

#	Article	IF	CITATIONS
403	Extended magnesium and calcium force field parameters for accurate ion–nucleic acid interactions in biomolecular simulations. Journal of Chemical Physics, 2021, 154, 171102.	1.2	31
404	Synthesis, characterization and molecular docking studies of new indol(1 <i>H</i> -3-yl)pyrimidine derivatives: Insights into their role in DNA interaction. Nucleosides, Nucleotides and Nucleic Acids, 2021, 40, 619-634.	0.4	1
405	Synthesis and DNA binding study of Co (II) and V(IV) complexes with O, N, O tridentate 3-methoxysalicylaldehyde-semicarbazide based ligand. Journal of Physics: Conference Series, 2021, 1879, 022059.	0.3	3
406	Wavelength-Selective Activation of Photocaged DNAzymes for Metal Ion Sensing in Live Cells. ACS Omega, 2021, 6, 13153-13160.	1.6	9
407	DNA Technology-assisted Signal Amplification Strategies in Electrochemiluminescence Bioanalysis. Journal of Analysis and Testing, 2021, 5, 95-111.	2.5	23
408	Selfâ€Assembly of Copper–DNAzyme Nanohybrids for Dualâ€Catalytic Tumor Therapy. Angewandte Chemie - International Edition, 2021, 60, 14324-14328.	7.2	100
409	Portable microfluidic device with thermometer-like display for real-time visual quantitation of Cadmium(II) contamination in drinking water. Analytica Chimica Acta, 2021, 1160, 338444.	2.6	12
410	Paper-Based Fluorescence Chemosensors for Metal Ion Detection in Biological and Environmental Samples. Biochip Journal, 2021, 15, 216-232.	2.5	34
411	PNA-Assisted DNAzymes to Cleave Double-Stranded DNA for Genetic Engineering with High Sequence Fidelity. Journal of the American Chemical Society, 2021, 143, 9724-9728.	6.6	27
412	Activation of catalytic DNAzyme by bindingâ€induced DNA displacement for homogeneous assay. Luminescence, 2021, 36, 1498-1506.	1.5	2
413	Advances in aptamer screening and aptasensors' detection of heavy metal ions. Journal of Nanobiotechnology, 2021, 19, 166.	4.2	128
414	Bioinspired Selfâ€Assembling Materials for Modulating Enzyme Functions. Advanced Functional Materials, 2021, 31, 2104819.	7.8	21
415	Probing Metal-Dependent Phosphate Binding for the Catalysis of the 17E DNAzyme. Biochemistry, 2021, 60, 1909-1918.	1.2	6
416	Pulling G-quadruplex out of dilemma for better colorimetric performance. Sensors and Actuators B: Chemical, 2021, 338, 129830.	4.0	2
417	DNAzyme Sensor Uses Chemiluminescence Resonance Energy Transfer for Rapid, Portable, and Ratiometric Detection of Metal Ions. Analytical Chemistry, 2021, 93, 10834-10840.	3.2	38
418	Biomineralized DNA nanospheres by metal organic framework for enhanced chemodynamic therapy. Chemical Engineering Journal, 2021, 415, 129036.	6.6	37
419	Temperature-robust and ratiometric G-quadruplex proximate DNAzyme assay for robustly monitoring of uranium pollution and its microbial biosorbents screening. Journal of Hazardous Materials, 2021, 413, 125383.	6.5	19
420	Metal-Doped Polydopamine Nanoparticles for Highly Robust and Efficient DNA Adsorption and Sensing. Langmuir, 2021, 37, 8953-8960.	1.6	15

#	Article	IF	CITATIONS
421	Polyethyleneimine-Functionalized Carbon Nanotube/Graphene Oxide Composite: A Novel Sensing Platform for Pb(II) Acetate in Aqueous Solution. ACS Omega, 2021, 6, 18190-18199.	1.6	9
422	Anti-Fouling Magnetic Beads Combined with Signal Amplification Strategies for Ultra-Sensitive and Selective Electrochemiluminescence Detection of MicroRNAs in Complex Biological Media. Analytical Chemistry, 2021, 93, 10679-10687.	3.2	48
423	Synthesis, spectroscopic (FT-IR, UV–visible) study, and HOMO-LUMO analysis of adenosine triphosphate (ATP) doped trivalent terbium. Journal of Molecular Structure, 2021, 1237, 130398.	1.8	11
424	A Cyanineâ€Mediated Selfâ€Assembly System for the Construction of a Twoâ€inâ€One Nanodrug. Angewandte Chemie - International Edition, 2021, 60, 21226-21230.	7.2	10
425	Oxide Nanowire Microfluidic Devices for Capturing Single-stranded DNAs. Analytical Sciences, 2021, 37, 1139-1145.	0.8	7
426	High Stability Au NPs: From Design to Application in Nanomedicine. International Journal of Nanomedicine, 2021, Volume 16, 6067-6094.	3.3	21
428	Assessment of the Accuracy of DFT-Predicted Li ⁺ –Nucleic Acid Binding Energies. Journal of Chemical Theory and Computation, 2021, 17, 5392-5408.	2.3	4
429	Assessing the impact of nonspecific binding on oligonucleotide bioanalysis. Bioanalysis, 2021, 13, 1233-1244.	0.6	14
430	Programmable DNAzyme Computing for Specific <i>In Vivo</i> Imaging: Intracellular Stimulus-Unlocked Target Sensing and Signal Amplification. Analytical Chemistry, 2021, 93, 12456-12463.	3.2	21
431	DNA Aptamer Functionalized Hydrogels for Interferometric Fiber-Optic Based Continuous Monitoring of Potassium Ions. Biosensors, 2021, 11, 266.	2.3	5
432	A Cyanineâ€Mediated Selfâ€Assembly System for the Construction of a Twoâ€inâ€One Nanodrug. Angewandte Chemie, 2021, 133, 21396-21400.	1.6	1
433	Rapid and Specific Imaging of Extracellular Signaling Molecule Adenosine Triphosphate with a Self-Phosphorylating DNAzyme. Journal of the American Chemical Society, 2021, 143, 15084-15090.	6.6	38
434	Unraveling the salt induced modulation in the photophysical behavior of acridine orange dye on its interaction with natural DNA. Journal of Molecular Liquids, 2021, 336, 116146.	2.3	10
436	E2EDNA: Simulation Protocol for DNA Aptamers with Ligands. Journal of Chemical Information and Modeling, 2021, 61, 4139-4144.	2.5	8
437	A DNA Molecular Robot that Autonomously Walks on the Cell Membrane to Drive Cell Motility. Angewandte Chemie, 2021, 133, 26291-26299.	1.6	7
438	Metal Ions Sensing by Biodots Prepared from DNA, RNA, and Nucleotides. Biosensors, 2021, 11, 333.	2.3	4
439	Proximity binding induced nucleic acid cascade amplification strategy for ultrasensitive homogeneous detection of PSA. Analytica Chimica Acta, 2021, 1186, 339123.	2.6	7
440	DNAs catalyzing DNA nanoconstruction. CheM, 2021, 7, 2556-2568.	5.8	13

#	Article	IF	CITATIONS
441	Zn ²⁺ oordinationâ€Driven RNA Assembly with Retained Integrity and Biological Functions. Angewandte Chemie - International Edition, 2021, 60, 22970-22976.	7.2	21
442	Zn ²⁺ â€Coordinationâ€Driven RNA Assembly with Retained Integrity and Biological Functions. Angewandte Chemie, 2021, 133, 23152-23158.	1.6	4
443	On-Strand Knoevenagel Insertion of a Hemicyanine Molecular Rotor Loop Residue for Turn-On Fluorescence Detection of Pb-Induced G-Quadruplex Rigidity. Bioconjugate Chemistry, 2021, 32, 2224-2232.	1.8	7
444	A multiple selective chemosensor based on triazine nitrogen-rich derivative with Sequential"off-on-offâ€Fluorescence response to Fe3+, Cr2O72â'', toluene, xylene, nitrobenzene and its application in water sample, vegetables and oil product. Microchemical Journal, 2021, 168, 106492.	2.3	9
445	Thioflavin T fluorescence and NMR spectroscopy suggesting a non-C-quadruplex structure for a sodium binding aptamer embedded in DNAzymes. Canadian Journal of Chemistry, 0, , 1-7.	0.6	1
446	A DNA Molecular Robot that Autonomously Walks on the Cell Membrane to Drive Cell Motility. Angewandte Chemie - International Edition, 2021, 60, 26087-26095.	7.2	46
447	Streifenschnelltest mit pptâ€Empfindlichkeit durch Kombination von Elektrochemilumineszenzâ€Detektion mit Aptamerâ€gesteuerter Indikatorfreisetzung aus mesoporösen Nanopartikeln. Angewandte Chemie, 2021, 133, 26491-26501.	1.6	4
448	Rapid heavy metal sensing platform: A case of triple signal amplification strategy for the sensitive detection of serum copper. Analytica Chimica Acta, 2021, 1181, 338908.	2.6	8
449	DNAzyme-based sensing probe protected by DNA tetrahedron from nuclease degradation for the detection of lead ions. Talanta, 2021, 233, 122543.	2.9	11
450	Cell-Free Biosensors: Synthetic Biology Without Borders. , 2022, , 243-281.		2
451	Combining Electrochemiluminescence Detection with Aptamerâ€Gated Indicator Releasing Mesoporous Nanoparticles Enables ppt Sensitivity for Stripâ€Based Rapid Tests. Angewandte Chemie - International Edition, 2021, 60, 26287-26297.	7.2	32
452	Signal on-off ratiometric electrochemical sensor based on semi-complementary aptamer couple for sensitive cadmium detection in mussel. Sensors and Actuators B: Chemical, 2021, 346, 130506.	4.0	18
453	DNA nanosensing systems for tunable detection of metal ions and molecular crypto-steganography. Biosensors and Bioelectronics, 2022, 195, 113645.	5.3	11
454	In vitro selection and application of lanthanide-dependent DNAzymes. Methods in Enzymology, 2021, 651, 373-396.	0.4	4
455	Metal-phenolic networks for cancer theranostics. Biomaterials Science, 2021, 9, 2825-2849.	2.6	45
456	Hydrated metal ion as a general acid in the catalytic mechanism of the 8–17 DNAzyme. Organic and Biomolecular Chemistry, 2021, 19, 5395-5402.	1.5	8
457	Cell surface-localized imaging and sensing. Chemical Society Reviews, 2021, 50, 6240-6277.	18.7	44
458	Label-free colorimetric assay for arsenic(III) determination based on a truncated short ssDNA and gold nanoparticles. Mikrochimica Acta, 2021, 188, 38.	2.5	15

ARTICLE IF CITATIONS # Poly ytosine Deoxyribonucleic Acid Strongly Anchoring on Graphene Oxide Due to Flexible Backbone 459 1.9 10 Phosphate Interactions. Advanced Materials Interfaces, 2021, 8, 2001798. Cell-Free Biosensors: Synthetic Biology Without Borders., 2020, , 1-39. Environmental Impact of Platinum, Palladium, and Rhodium Emissions from Autocatalytic Converters 461 7 – A Brief Review of the Latest Developments. , 2020, , 1-37. Fluorescent sensors for sodium ions. Analytical Methods, 2017, 9, 5570-5579. A One-Step Dual-Mode Aptasensor for Subnanomolar Detection of Lead Ions Based on Electrochemiluminescence and Fast Scan Voltammetry. Journal of the Electrochemical Society, 2020, 463 1.314 167, 126506. Modern nanobiotechnologies for efficient detection and remediation of mercury. Sensor Review, 464 1.0 2021, ahead-of-print, . Revealing the Hydrogen Bonding Interaction of DNA with Unnatural Bases via Plasmonic Antenna 465 2.1 3 Enhanced Infrared Spectroscopy. Journal of Physical Chemistry Letters, 2021, 12, 10255-10261. Functional Nucleic Acid Based Biosensors for Other Metal Ion Detection., 2018, , 185-203. 466 Modulation of DNAzyme Activity via Butanol Dehydration. Chemistry - an Asian Journal, 2021, 16, 467 1.7 1 4062-4066. Hydration and Charge-Transfer Effects of Alkaline Earth Metal Ions Binding to a Carboxylate Anion, 1.2 Phosphate Anion, and Guanine Nucleobase. Journal of Physical Chemistry B, 2021, 125, 12135-12146. Small-angle scattering applications to the analysis of aptamer structure and conformational changes. 469 0 0.3 AIP Conference Proceedings, 2020, , . Translational control of gene function through optically regulated nucleic acids. Chemical Society 18.7 Reviews, 2021, 50, 13253-13267. Small DNAs that Bind Nickel(II) Specifically and Tightly. Analytical Chemistry, 2021, 93, 14912-14917. 471 3.2 2 DNAzyme-Based Lithium-Selective Imaging Reveals Higher Lithium Accumulation in Bipolar Disorder Patient-Derived Neurons. ACS Central Science, 2021, 7, 1809-1820. 5.3 29 Copper ion and G-quadruplex-mediated fluorescent sensor for highly selective detection of bleomycin in actual samples. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 267, 473 2.0 3 120572. Influence of Gold/Silver Ratio in Ablative Nanoparticles on Their Interaction with Aptamers and 474 1.8 Functionality of the Obtained Conjugates. Bioconjugate Chemistry, 2021, 32, 2439-2446. Addressing Cu2+ interference for accurate aptamer-based biomarker determinations of Alzheimer's 475 0.8 1 disease. Analytical Sciences, 2022, 38, 317-322. Gene-like Precise Construction of Functional DNA Materials. Accounts of Materials Research, 2022, 3, 476 42-53.

#	Article	IF	CITATIONS
477	Visual Test Paper for on-Site Polychlorinated Biphenyls Detection and Its Logic Gate Applications. Analytical Chemistry, 2021, 93, 15438-15444.	3.2	14
478	An electrochemical biosensor based on ARGET ATRP with DSN-assisted target recycling for sensitive detection of tobacco mosaic virus RNA. Bioelectrochemistry, 2022, 144, 108037.	2.4	12
479	Development of a two-in-one integrated bioassay for simultaneous and rapid on-site detection of Pb2+ and Hg2+ in water. Analytica Chimica Acta, 2022, 1194, 339397.	2.6	16
480	Recent progress in sensor arrays using nucleic acid as sensing elements. Coordination Chemistry Reviews, 2022, 456, 214379.	9.5	17
481	Structure and Surface Texture Characterisation of Fibres and Nanoparticles in Silver(I):6-Guanosine Hydrogel. , 2020, , .		1
482	Nucleic Acid-Based Cell Surface Engineering Strategies and Their Applications. ACS Applied Bio Materials, 2022, 5, 1901-1915.	2.3	11
483	Metal/metal oxides for electrochemical DNA biosensing. , 2022, , 265-289.		0
484	Molecular Probes, Chemosensors, and Nanosensors for Optical Detection of Biorelevant Molecules and Ions in Aqueous Media and Biofluids. Chemical Reviews, 2022, 122, 3459-3636.	23.0	171
485	Simple construction of a two-component fluorescent sensor for turn-on detection of Hg2+ in human serum. Analytical and Bioanalytical Chemistry, 2022, 414, 2021-2028.	1.9	1
486	Nucleoside-regulated catalytic activity of copper nanoclusters and their application for mercury ion detection. New Journal of Chemistry, 2022, 46, 4687-4692.	1.4	5
487	A persistent luminescent nanobeacon for practical detection of lead ions via avoiding background interference. Analytica Chimica Acta, 2022, 1198, 339555.	2.6	9
488	Photoresponsive DNA materials and their applications. Chemical Society Reviews, 2022, 51, 720-760.	18.7	48
489	Dynamic Transformation of DNA Nanostructures inside Living Cells. ChemPlusChem, 2022, 87, e202100519.	1.3	6
490	Novel biocompatible amide phthalocyanine for simultaneous electrochemical detection of adenine and guanine. Microchemical Journal, 2022, 175, 107223.	2.3	8
491	An Exo III-assisted catalytic hairpin assembly-based self-fluorescence aptasensor for pesticide detection. Sensors and Actuators B: Chemical, 2022, 358, 131441.	4.0	16
492	Recent progress in biosensors for wastewater monitoring and surveillance. , 2022, , 245-267.		2
493	Peptide-Based Sensing, Logic Computing, and Information Security on the Antimonene Platform. ACS Applied Materials & amp; Interfaces, 2022, 14, 8311-8321.	4.0	17
494	Recent Advances in Stimuli-Responsive DNA-Based Hydrogels. ACS Applied Bio Materials, 2022, 5, 1934-1953.	2.3	20

	CITATION	CITATION REPORT	
#	Article	IF	Citations
495	Programmable Matter: The Nanoparticle Atom and DNA Bond. Advanced Materials, 2022, 34, e2107875.	11.1	30
496	A review on fluorimetric and colorimetric detection of metal ions by chemodosimetric approach 2013–2021. Coordination Chemistry Reviews, 2022, 459, 214401.	9.5	46
497	The Development of Smart Fluorescent Sensor Based on G ‑ Quadruplex Beacons Targeting Metal Ions and Biological Analytes. SSRN Electronic Journal, 0, , .	0.4	0
498	Construction of robust bienzyme-mimicking nanocatalysts for dye degradation by self-assembly of hematin, metal ions, and nucleotides. Catalysis Science and Technology, 2022, 12, 2846-2855.	2.1	1
499	Sensing Metal Ions with Phosphorothioate-Modified DNAzymes. Methods in Molecular Biology, 2022, 2439, 277-289.	0.4	0
500	The Development of Smart Fluorescent Sensor Based on G‑Quadruplex Beacons Targeting Metal Ions and Biological Analytes. SSRN Electronic Journal, 0, , .	0.4	0
501	A dynamic DNA nanosponge for triggered amplification of gene-photodynamic modulation. Chemical Science, 2022, 13, 5155-5163.	3.7	12
502	Single Molecular Chelation Dynamics Reveals That DNA Has a Stronger Affinity toward Lead(II) than Cadmium(II). Journal of Physical Chemistry B, 2022, 126, 1876-1884.	1.2	1
503	Overcoming Major Barriers to Developing Successful Sensors for Practical Applications Using Functional Nucleic Acids. Annual Review of Analytical Chemistry, 2022, 15, 151-171.	2.8	9
504	Nucleic acid-based fluorescent sensor systems: a review. Polymer Journal, 2022, 54, 751-766.	1.3	7
505	Label-Free Detection of Ochratoxin A Using Aptamer as Recognition Probe at Liquid Crystal-Aqueous Interface. , 2022, 2, .		6
506	Lanthanide-DNA supramolecular hydrogels with tunable and responsive luminescence. Science China Technological Sciences, 2022, 65, 1043-1051.	2.0	4
507	DNA-Based MXFs to Enhance Radiotherapy and Stimulate Robust Antitumor Immune Responses. Nano Letters, 2022, 22, 2826-2834.	4.5	33
508	Supramolecular Fluorescent Probes for the Detection of Reactive Oxygen Species Discovered via High-Throughput Screening. Analytical Chemistry, 2022, 94, 5634-5641.	3.2	17
509	Noninvasive and Spatiotemporal Control of DNAzyme-Based Imaging of Metal Ions <i>In Vivo</i> Using High-Intensity Focused Ultrasound. Journal of the American Chemical Society, 2022, 144, 5812-5819.	6.6	46
510	Optimizing the Chemiluminescence of a Lightâ€Producing Deoxyribozyme. ChemBioChem, 2022, 23, .	1.3	2
511	Liquid crystals as signal transducers for sensing of analytes using aptamer as a recognition probe. Liquid Crystals Reviews, 2021, 9, 65-84.	1,1	6
512	Competitive metalâ€binding stoichiometry between calcium and strontium by cell wall proteins of <i>Neurospora crassa</i> . Journal of Basic Microbiology, 2022, , .	1.8	1

#	Article	IF	CITATIONS
513	A molecular paradigm: "Plug-and-play―chemical sensing and crypto-steganography based on molecular recognition and selective response. Biosensors and Bioelectronics, 2022, 209, 114260.	5.3	5
514	Functional nucleic acid-based fluorescent probes for metal ion detection. Coordination Chemistry Reviews, 2022, 459, 214453.	9.5	19
515	Fluorescent-based nanosensors for selective detection of a wide range of biological macromolecules: A comprehensive review. International Journal of Biological Macromolecules, 2022, 206, 115-147.	3.6	91
516	Crystal structure of $[Rh2(\hat{i}_{4}-OAc)2(\hat{i}_{4}-HNOCCF3)2(theophylline)2]\hat{A}\cdot 6H2O$. Metal bonding to theophylline at the unexpected N(9) site due to the crystal packing effect and a review on intra-molecular interligand interactions affecting metal bonding properties of theophylline. Journal of Molecular Structure, 2022. 1258. 132292.	1.8	0
517	Recent advances of cell surface modification based on aptamers. Materials Today Nano, 2022, 18, 100188.	2.3	12
518	Proximity sequence-dependent spectral conversion of silver nanoclusters and construction of ratiometric nanoprobe. Chemical Engineering Journal, 2022, 441, 136001.	6.6	12
519	The emerging potential of Aptamers as therapeutic agents in infection and inflammation. , 2022, 238, 108173.		2
520	A DNA Nanocomplex Containing Cascade DNAzymes and Promoterâ€Like Znâ€Mnâ€Ferrite for Combined Gene/Chemoâ€dynamic Therapy. Angewandte Chemie - International Edition, 2022, 61, .	7.2	57
521	Derivation of pb(II)-sensing Escherichia coli cell-based biosensors from arsenic responsive genetic systems. AMB Express, 2021, 11, 169.	1.4	5
522	A DNA Nanocomplex Containing Cascade DNAzymes and Promoterâ€Like Znâ€Mnâ€Ferrite for Combined Gene/Chemoâ€dynamic Therapy. Angewandte Chemie, 2022, 134, .	1.6	7
523	Metal Complexes as DNA Synthesis and/or Repair Inhibitors: Anticancer and Antimicrobial Agents. Pharmaceutical Fronts, 2021, 03, e164-e182.	0.4	7
524	Self-powered perovskite CH3NH3PbBr3 field effect transistor with fast response and high sensitivity in sensing. Materials Today Advances, 2021, 12, 100185.	2.5	2
525	A sensitive fluorescence biosensor based on metalÂion-mediated DNAzyme activity for amplified detection of acetylcholinesterase. Analyst, The, 2022, , .	1.7	2
526	Construction of rolling circle amplification-based DNA nanostructures for biomedical applications. Biomaterials Science, 2022, 10, 3054-3061.	2.6	19
527	Deployment of functional DNA-based biosensors for environmental water analysis. TrAC - Trends in Analytical Chemistry, 2022, 153, 116639.	5.8	12
528	Reversible and Remote Thermoregulation of a Recyclable DNAzyme/pNIPAM Microgel Catalyst Formed via a Microfluidic Device. Advanced Sustainable Systems, 2022, 6, .	2.7	6
529	Pure DNA scaffolded drug delivery systems for cancer therapy. Biomaterials, 2022, 285, 121532.	5.7	9
530	Nb ₄ C ₃ T _x (MXene)/Au/DNA Aptasensor for the Ultraselective Electrochemical Detection of Lead in Water Samples. Electroanalysis, 2022, 34, 1540-1546.	1.5	14

#	Article	IF	CITATIONS
531	Isothermal nucleic acid amplification for food safety analysis. TrAC - Trends in Analytical Chemistry, 2022, 153, 116641.	5.8	43
534	Construction of Branched DNAâ€based Nanostructures for Diagnosis, Therapeutics and Protein Engineering. Chemistry - an Asian Journal, 2022, 17, .	1.7	6
535	Stabilization of Gold Nanoparticles by Hairpin DNA and Implications for Label-Free Colorimetric Biosensors. Langmuir, 2022, 38, 5542-5549.	1.6	8
536	Nb.Bbvci-Triggered Bipedal DNA Walking Strategy for Ultrasensitive Detection of Zearalenone. SSRN Electronic Journal, 0, , .	0.4	0
537	基于PNAçš"ç"Ÿç‰©ä¼æ"ŸæŠ€æœ⁻最æ−°ç"究进展. Scientia Sinica Chimica, 2022, , .	0.2	0
538	Recent Advances on DNAzyme-Based Biosensors for Detection of Uranyl. Frontiers in Chemistry, 2022, 10, 882250.	1.8	4
539	Programming DNA Self-Assembly by Geometry. Journal of the American Chemical Society, 2022, 144, 8741-8745.	6.6	18
540	Advances in Designer DNA Nanorobots Enabling Programmable Functions. ChemBioChem, 2022, 23, .	1.3	12
541	Polymeric Electrochemical Sensor for Calcium Based on DNA. Polymers, 2022, 14, 1896.	2.0	2
542	Self-assembly CuO-loaded nanocomposite involving functionalized DNA with dihydromyricetin for water-based efficient and controllable antibacterial action. , 2022, 137, 212847.		2
543	Hemin/G-quadruplex based electrochemical sensor for highly sensitive detection of ATP in fish. Journal of Electroanalytical Chemistry, 2022, 916, 116374.	1.9	5
544	Engineering nucleic acid functional probes in neuroimaging. TrAC - Trends in Analytical Chemistry, 2022, 154, 116651.	5.8	2
545	A smart DNAzyme/graphene oxide nanosystem for fluorescent sensing of uranyl ion with high sensitivity and selectivity. Microchemical Journal, 2022, 180, 107596.	2.3	6
546	Synthesis and Characteristics of Selfâ€Assembled Multifunctional Ln ³⁺ â€ÐNA Hybrid Coordination Polymers. Chemistry - A European Journal, 2022, 28, .	1.7	1
547	Glutathione-Sensitive Nanoglue Platform with Effective Nucleic Acids Gluing onto Liposomes for Photo-Gene Therapy. ACS Applied Materials & Interfaces, 2022, 14, 25126-25134.	4.0	7
548	Aptamers and Nucleobases Functionalized Metal and Metal Oxide Nanoparticles: Recent Advances in Heavy Metal Monitoring. SSRN Electronic Journal, 0, , .	0.4	0
549	DNAâ€Mediated Membrane Fusion and Its Biological Applications: Sensing, Reaction Control and Drug Delivery. Analysis & Sensing, 2022, 2, .	1.1	2
550	Fluorescent Aptaswitch for Detection of Lead Ions. ACS Applied Bio Materials, 2022, 5, 5089-5093.	2.3	5

#	Article	IF	CITATIONS
551	Research Progress in Construction and Application of Enzyme-Based DNA Logic Gates. IEEE Transactions on Nanobioscience, 2023, 22, 245-258.	2.2	1
552	Caging-Decaging Strategies to Realize Spatiotemporal Control of DNAzyme Activity for Biosensing and Bioimaging. Chemical Research in Chinese Universities, 2022, 38, 902-911.	1.3	4
553	siRNA-functionalized lanthanide nanoparticle enables efficient endosomal escape and cancer treatment. Nano Research, 2022, 15, 9160-9168.	5.8	10
554	Deoxyribonucleic Acid Extraction from Mars Analog Soils and Their Characterization with Solid-State Nanopores. Astrobiology, 2022, 22, 992-1008.	1.5	6
555	A three-dimensional "turn-on―sensor array for simultaneous discrimination of multiple heavy metal ions based on bovine serum albumin hybridized fluorescent gold nanoclusters. Analytica Chimica Acta, 2022, 1220, 340023.	2.6	13
556	A G-triplex-based label-free fluorescence switching platform for the specific recognition of chromium species. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 432, 114071.	2.0	1
557	Directional migration propensity of calf thymus DNA in a gradient of metal ions. Chemical Communications, 2022, 58, 9353-9356.	2.2	5
558	The role of Na ⁺ in catalysis by the 8–17 DNAzyme. Organic and Biomolecular Chemistry, 2022, 20, 6356-6362.	1.5	2
559	Biointerface Engineering with Nucleic Acid Materials for Biosensing Applications. Advanced Functional Materials, 2022, 32, .	7.8	15
560	Regulating Spatial Localization and Reactivity Biasness of DNAzymes by Metal Ions and Oligonucleotides. ChemBioChem, 2022, 23, .	1.3	2
561	DNA Supramolecular Assembly on Micro/Nanointerfaces for Bioanalysis. Accounts of Chemical Research, 2022, 55, 2043-2054.	7.6	27
562	Electrochemical aptasensor based on Ce3NbO7/CeO2@Au hollow nanospheres by using Nb.BbvCl-triggered and bipedal DNA walker amplification strategy for zearalenone detection. Journal of Hazardous Materials, 2022, 438, 129491.	6.5	11
563	Development and potential for point-of-care heavy metal sensing using microfluidic systems: A brief review. Sensors and Actuators A: Physical, 2022, 344, 113733.	2.0	9
564	Mesoscopic model confirms strong base pair metal mediated bonding for T–Hg2+–T and weaker for C–Ag+–C. Chemical Physics Letters, 2022, 803, 139847.	1.2	2
565	Upconverting nanoparticles based nanodevice for DNAzymes amplified miRNAs detection and artificially controlled chemo-gene therapy. Biosensors and Bioelectronics, 2022, 214, 114549.	5.3	8
566	An emissive dual-sensitized bimetallic Eu ₂ ^{III} -bioprobe: design strategy, biological interactions, and nucleolus staining studies. New Journal of Chemistry, 2022, 46, 16007-16018.	1.4	2
567	Platform Formed from ZIF-8 and DNAzyme: "Turn-On―Fluorescence Assay for Simple, High-Sensitivity, and High-Selectivity Detection of Pb ²⁺ . Journal of Agricultural and Food Chemistry, 2022, 70, 9567-9576.	2.4	14
568	Construction of a sensitive ratiometric electrochemical sensing platform for DNA methylation detection based on the design of multistep DNA amplification circuits. Sensors and Actuators B: Chemical, 2022, 370, 132491.	4.0	8

ARTICLE IF CITATIONS Mn2+ modified black phosphorus nanosheets with enhanced DNA adsorption and affinity for robust 569 5.3 6 sensing. Biosensors and Bioelectronics, 2022, 216, 114622. Thioflavine T-induced charge neutralization assembly of AuNPs for colorimetric sensing of thallium. 570 Sensors and Actuators B: Chemical, 2022, 370, 132437. Aptamers functionalized metal and metal oxide nanoparticles: Recent advances in heavy metal 571 5.8 11 monitoring. TrAC - Trends in Analytical Chemistry, 2022, 157, 116748. Protection of DNA by metal ions at 95 \hat{A}° C: from lower critical solution temperature (LCST) behavior to 2.8 coordination-driven self-assembly. Nanoscale, 2022, 14, 14613-14622. Probing metal-dependent G-quadruplexes using the intrinsic fluorescence of DNA. Chemical 573 2.2 7 Communications, 2022, 58, 10225-10228. A nucleic acid dye-enhanced electrochemical biosensor for the label-free detection of Hg²⁺ based on a gold nanoparticle-modified disposable screen-printed electrode. Analytical Methods, 2022, 14, 3451-3457. 574 1.3 Biosensors based on functional nucleic acids and isothermal amplification techniques. Talanta, 2023, 575 2.9 24 253, 123977. Photothermal Nano-Vaccine Promoting Antigen Presentation and Dendritic Cells Infiltration for 2.8 Enhanced Immunotherapy of Melanoma via Transdermal Microneedles Delivery. Research, 2022, 2022, . Hemin-incorporating DNA nanozyme enabling catalytic oxygenation and GSH depletion for enhanced 577 4.2 15 photodynamic therapy and synergistic tumor ferroptosis. Journal of Nanobiotechnology, 2022, 20, . Recent Developments in G-Quadruplex Binding Ligands and Specific Beacons on Smart Fluorescent Sensor for Targeting Metal lons and Biological Analytes. ACS Sensors, 2022, 7, 2833-2856. Solution Structure of a Lanthanideâ€binding DNA Aptamer Determined Using High Quality 579 2 1.7 pseudocontact shift restraints. Chemistry - A European Journal, 2022, 28, . Molecular â€~email': Electrochemical aptasensing of fish pathogens, molecular information encoding, 580 encryption and hiding applications. Analytica Chimica Acta, 2022, 1232, 340483. Stimuliâ€Responsive RNAâ€Cleaving DNAzyme for Biomedical Application. Analysis & Sensing, 2023, 3, . 581 1.1 3 DNA-Based Molecular Machines. Jacs Au, 2022, 2, 2381-2399. 3.6 Fast Transport and Transformation of Biomacromolecular Substances via Thermoâ€6timulated Active "Inhalation–Exhalation―Cycles of Hierarchically Structured Smart pNIPAM–DNA Hydrogels. Advanced 583 11.1 12 Materials, 2023, 35, . Functional Zeolitic Imidazolate Framework for Robust <scp>l</scp>â€Deoxyribozymeâ€Based Therapy. 584 Small, 2022, 18, . DNAzyme-regulated CRISPR/Cas12a based fluorescent biosensor for sensitive detection of alkaline 585 2.6 11 phosphatase activity and inhibition. Analytica Chimica Acta, 2022, 1233, 340518. Recent Achievements in Electrochemical and Optical Nucleic Acids Based Detection of Metal Ions. Molecules, 2022, 27, 7481.

#	Article	IF	CITATIONS
587	The melting curves of calf thymus-DNA are buffer specific. Journal of Colloid and Interface Science, 2023, 630, 193-201.	5.0	3
588	Intramolecular Folding of PolyT Oligonucleotides Induced by Cooperative Binding of Silver(I) Ions. Molecules, 2022, 27, 7842.	1.7	0
589	Design of a Fluorescence-Enhanced Aptasensor for Sensitive Detection of Silver Ions. Journal of Applied Spectroscopy, 2022, 89, 984-991.	0.3	2
590	Divalent Metal Cation Optical Sensing Using Single-Walled Carbon Nanotube Corona Phase Molecular Recognition. Analytical Chemistry, 2022, 94, 16393-16401.	3.2	4
591	Reversible modulation of aptamerâ€ligand binding in RNA lightâ€up aptamers containing Gâ€quadruplex using chemical stimuli. ChemBioChem, 0, , .	1.3	0
592	Monitoring leaching of Cd2+ from cadmium-based quantum dots by an Cd aptamer fluorescence sensor. Biosensors and Bioelectronics, 2023, 220, 114880.	5.3	7
593	Metal-organic frameworks: A promising option for the diagnosis and treatment of Alzheimer's disease. Journal of Controlled Release, 2023, 353, 1-29.	4.8	13
594	Ion-mediated control of structural integrity and reconfigurability of DNA nanostructures. Nanoscale, 2023, 15, 1317-1326.	2.8	6
595	Reversing the negative effect of adenosine A1 receptor-targeted immunometabolism modulation on melanoma by a co-delivery nanomedicine for self-activation of anti-PD-L1 DNAzyme. Nano Today, 2023, 48, 101722.	6.2	14
596	Selective sensing of DNA/RNA nucleobases by metal-functionalized silicon nanowires: A DFT approach. Surfaces and Interfaces, 2023, 36, 102529.	1.5	3
597	Novel thermo and ion-responsive copolymers based on metallo-base pair directed host-guest complexation for highly selective recognition of Hg2+ in aqueous solution. Journal of Hazardous Materials, 2023, 445, 130610.	6.5	1
598	RNA-cleaving deoxyribozyme-linked immunosorbent assay for the ultrasensitive detection of chloramphenicol in milk. Food Chemistry, 2023, 408, 135174.	4.2	4
599	Construction of molecular logic gates using heavy metal ions as inputs based on catalytic hairpin assembly and CRISPR-Cas12a. Talanta, 2023, 255, 124210.	2.9	3
600	Recent Advances in Nanomaterials of Group XIV Elements of Periodic Table in Breast Cancer Treatment. Pharmaceutics, 2022, 14, 2640.	2.0	1
601	Modular Engineering of DNAzyme-Based Sensors for Spatioselective Imaging of Metal Ions in Mitochondria. Journal of the American Chemical Society, 2023, 145, 1678-1685.	6.6	30
602	Metal-coordinated nanodrugs based on natural products for cancer theranostics. Chemical Engineering Journal, 2023, 456, 140892.	6.6	9
603	Development of an ultrasensitive rGO/AuNPs/ssDNA-based electrochemical aptasensor for detection of Pb2+. Journal of Solid State Electrochemistry, 2023, 27, 559-574.	1.2	3
604	Selection of RNAâ€Cleaving TNA Enzymes for Cellular Mg ²⁺ Imaging. ChemBioChem, 2023, 24,	1.3	2

#	Article	IF	CITATIONS
605	Nanopore Liberates G-Quadruplexes from Biochemical Buffers for Accurate Mass Spectrometric Examination. Analytical Chemistry, 2022, 94, 17972-17979.	3.2	1
606	Metalâ€Organic Frameworks for Gene Therapy and Detection. Advanced Functional Materials, 2023, 33, .	7.8	13
607	Nucleic Acids Enabledâ€Interfacial Engineering for Biomarker Sensing with Distance Constraint Effects. , 2023, 2, .		1
608	Nearâ€Quantitative Preparation of Short Singleâ€Stranded DNA Circles. Angewandte Chemie - International Edition, 2023, 62, .	7.2	3
609	Nearâ€Quantitative Preparation of Short Singleâ€6tranded DNA Circles. Angewandte Chemie, 2023, 135, .	1.6	0
610	Poly-thymine DNA templated MnO2 biomineralization as a high-affinity anchoring enabling tumor targeting delivery. Journal of Colloid and Interface Science, 2023, 637, 441-452.	5.0	3
611	Construction of histamine aptamer sensor based on Au NPs nanozyme for ultrasensitive SERS detection of histamine. Journal of Food Composition and Analysis, 2023, 120, 105337.	1.9	6
612	Cation and buffer specific effects on the DNA-lipid interaction. Colloids and Surfaces B: Biointerfaces, 2023, 223, 113187.	2.5	2
613	Copper carbonate nanoparticles as an effective biomineralized carrier to load macromolecular drugs for multimodal therapy. Chinese Chemical Letters, 2023, 34, 108192.	4.8	2
614	Advances in the Functional Nucleic Acid Biosensors for Detection of Lead Ions. Critical Reviews in Analytical Chemistry, 2023, 53, 309-325.	1.8	2
615	Quantitative Fluorescent Detection of lons. , 2023, , 295-328.		0
616	A biologically stable, self-catalytic DNAzyme machine encapsulated by metal-phenolic nanoshells for multiple microRNA imaging. Chinese Chemical Letters, 2023, 34, 108200.	4.8	4
617	Recent Advances in Silicon Quantum Dot-Based Fluorescent Biosensors. Biosensors, 2023, 13, 311.	2.3	6
618	Construction of a simple dual-mode ATP-sensing system for reliable fish freshness evaluation. Analytica Chimica Acta, 2023, 1252, 341048.	2.6	8
619	Promotion of DNA Adsorption onto Microplastics by Transition Metal Ions. Microplastics, 2023, 2, 158-167.	1.6	3
620	Subcellular localization of DNA nanodevices and their applications. Chemical Communications, 2023, 59, 3957-3967.	2.2	2
622	Recent Progress in Functional-Nucleic-Acid-Based Fluorescent Fiber-Optic Evanescent Wave Biosensors. Biosensors, 2023, 13, 425.	2.3	3
623	Allosteric Nucleic Acid Enzyme: A Versatile Stimuliâ€Responsive Tool for Molecular Computing and Biosensing Nanodevices. Small, 2023, 19, .	5.2	3

#	Article	IF	CITATIONS
624	High-entropy alloy nanopatterns by prescribed metallization of DNA origami templates. Nature Communications, 2023, 14, .	5.8	15
625	DNA-Encoded Libraries Via Late-Stage Functionalization Strategies: A Review. Chemical Communications, 0, , .	2.2	2
626	Fluorescent Sensors for Detecting and Imaging Metal Ions in Biological Systems: Recent Advances and Future Perspectives. Chemosensors, 2023, 11, 226.	1.8	2
627	Mechanism of pH influence on aptamer binding with Cd ²⁺ revealed by molecular dynamics simulation. New Journal of Chemistry, 2023, 47, 9239-9249.	1.4	2
628	Small DNAs That Specifically and Tightly Bind Transition Metal Ions. Journal of the American Chemical Society, 2023, 145, 8776-8780.	6.6	2
629	Tb ³⁺ -nucleic acid probe-based label-free and rapid detection of mercury pollution in food. , 2024, 13, 993-998.		0
630	Architecture of dual emissive three-dimensional nanostructure composites containing graphitic 2D sheets and iron oxide nanoparticles: detection of short single-stranded DNA sequences. Biomaterials Science, 0, , .	2.6	0
631	RNAâ€Cleaving DNAzymeâ€Based Amplification Strategies for Biosensing and Therapy. Advanced Healthcare Materials, 2023, 12, .	3.9	10
642	A facile method for purifying DNA-modified small particles and soft materials using aqueous two-phase systems. Chemical Communications, 2023, 59, 9130-9133.	2.2	2
677	Advances in colorimetric aptasensors for heavy metal ion detection utilizing nanomaterials: a comprehensive review. Analytical Methods, 2023, 15, 6320-6343.	1.3	1
678	A designed DNA/amino acid amphiphile-based supramolecular oxidase-mimetic catalyst for colorimetric DNA detection. Chemical Communications, 2023, 59, 14540-14543.	2.2	0
702	DNA nanotechnology for diagnostic applications. , 2024, , 77-99.		0