Juewen Liu, å^~çæ–

List of Publications by Year
in descending order

462 papers	38,085 citations	2962 96 h-index	4622 176 g-index
478 all docs	478 docs citations	478 times ranked	27461 citing authors

#	Article	IF	Citations
1	Synthesis strategies of covalent organic frameworks: An overview from nonconventional heating methods and reaction media. Green Energy and Environment, 2023, 8, 1596-1618.	4.7	22
2	Nucleobase, nucleoside, nucleotide, and oligonucleotide coordinated metal ions for sensing and biomedicine applications. Nano Research, 2022, 15, 71-84.	5.8	22
3	Self-assembled manganese phthalocyanine nanoparticles with enhanced peroxidase-like activity for anti-tumor therapy. Nano Research, 2022, 15, 2347-2354.	5.8	21
4	Critical evaluation of aptamer binding for biosensor designs. TrAC - Trends in Analytical Chemistry, 2022, 146, 116480.	5.8	63
5	Adsorption of Linear and Spherical DNA Oligonucleotides onto Microplastics. Langmuir, 2022, 38, 1915-1922.	1.6	14
6	A Polymeric Nanobeacon for Monitoring the Fluctuation of Hydrogen Polysulfides during Fertilization and Embryonic Development. Angewandte Chemie - International Edition, 2022, 61, .	7.2	9
7	DNA-mediated growth of noble metal nanomaterials for biosensing applications. TrAC - Trends in Analytical Chemistry, 2022, 148, 116533.	5.8	28
8	Homogeneous assays for aptamer-based ethanolamine sensing: no indication of target binding. Analyst, The, 2022, 147, 1348-1356.	1.7	6
9	Selection of Aptamers for Sensing Caffeine and Discrimination of Its Three Single Demethylated Analogues. Analytical Chemistry, 2022, 94, 3142-3149.	3.2	37
10	Sensing Metal Ions with Phosphorothioate-Modified DNAzymes. Methods in Molecular Biology, 2022, 2439, 277-289.	0.4	0
11	Comparing two cortisol aptamers for label-free fluorescent and colorimetric biosensors. Sensors & Diagnostics, 2022, 1, 541-549.	1.9	12
12	Adsorption of DNA Oligonucleotides by Self-Assembled Metalloporphyrin Nanomaterials. Langmuir, 2022, 38, 3553-3560.	1.6	6
13	Surface Science of Nanozymes and Defining a Nanozyme Unit. Langmuir, 2022, 38, 3617-3622.	1.6	47
14	Selection of DNA Aptamers for Sensing Uric Acid in Simulated Tears. Analysis & Sensing, 2022, 2, .	1.1	21
15	DNA coated CoZn-ZIF metal-organic frameworks for fluorescent sensing guanosine triphosphate and discrimination of nucleoside triphosphates. Analytica Chimica Acta, 2022, 1207, 339806.	2.6	7
16	Signaling Kinetics of DNA and Aptamer Biosensors Revealing Graphene Oxide Surface Heterogeneity. Journal of Analysis and Testing, 2022, 6, 20-27.	2.5	10
17	Deployment of functional DNA-based biosensors for environmental water analysis. TrAC - Trends in Analytical Chemistry, 2022, 153, 116639.	5.8	12
18	2â€Aminopurine Fluorescence Spectroscopy for Probing a Glucose Binding Aptamer. ChemBioChem, 2022, 23, .	1.3	8

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19	Stabilization of Gold Nanoparticles by Hairpin DNA and Implications for Label-Free Colorimetric Biosensors. Langmuir, 2022, 38, 5542-5549.	1.6	8
20	DNAâ€Directed Seeded Synthesis of Gold Nanoparticles without Changing DNA Sequence. ChemNanoMat, 2022, 8, .	1.5	3
21	Fluidity-Guided Assembly of Au@Pt on Liposomes as a Catalase-Powered Nanomotor for Effective Cell Uptake in Cancer Cells and Plant Leaves. ACS Nano, 2022, 16, 9019-9030.	7.3	16
22	Capping Gold Nanoparticles to Achieve a Protein-like Surface for Loop-Mediated Isothermal Amplification Acceleration and Ultrasensitive DNA Detection. ACS Applied Materials & Interfaces, 2022, 14, 27666-27674.	4.0	13
23	Label-free and Dye-free Fluorescent Sensing of Tetracyclines Using a Capture-Selected DNA Aptamer. Analytical Chemistry, 2022, 94, 10175-10182.	3.2	40
24	Controlling dopamine binding by the new aptamer for a FRET-based biosensor. Biosensors and Bioelectronics, 2021, 173, 112798.	5.3	36
25	Zn²⁺â€Dependent DNAzymes: From Solution Chemistry to Analytical, Materials and Therapeutic Applications. ChemBioChem, 2021, 22, 779-789.	1.3	32
26	Biosensors and sensors for dopamine detection. View, 2021, 2, 20200102.	2.7	141
27	Phosphorothioate nucleic acids for probing metal binding, biosensing and nanotechnology. Coordination Chemistry Reviews, 2021, 428, 213624.	9.5	23
28	DNA Triplex and Quadruplex Assembled Nanosensors for Correlating K + and pH in Lysosomes. Angewandte Chemie, 2021, 133, 5513-5518.	1.6	43
29	Labelâ€Free Colorimetric Biosensors Based on Aptamers and Gold Nanoparticles: A Critical Review. Analysis & Sensing, 2021, 1, 30-43.	1.1	41
30	DNA Triplex and Quadruplex Assembled Nanosensors for Correlating K⁺ and pH in Lysosomes. Angewandte Chemie - International Edition, 2021, 60, 5453-5458.	7.2	61
31	Effect of proteins on the oxidase-like activity of CeO₂ nanozymes for immunoassays. Analyst, The, 2021, 146, 864-873.	1.7	32
32	Nucleic Acids Analysis. Science China Chemistry, 2021, 64, 171-203.	4.2	88
33	Nanozyme's catching up: activity, specificity, reaction conditions and reaction types. Materials Horizons, 2021, 8, 336-350.	6.4	74
34	A gold nanoparticle-based immunochromatographic assay for simultaneous detection of multiplex sildenafil adulterants in health food by only one antibody. Analytica Chimica Acta, 2021, 1141, 1-12.	2.6	23
35	Preparing Selective by. Methods in Molecular Biology, 2021, 2359, 223-232.	0.4	1
36	Selection of a self-cleaving ribozyme activated in a chemically and thermally denaturing environment. Chemical Communications, 2021, 57, 7641-7644.	2.2	3

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37	SYBR Green I promotes melamine binding to poly-thymine DNA and FRET-based ratiometric sensing. Analyst, The, 2021, 146, 1642-1649.	1.7	12
38	Porphyrin metalation catalyzed by DNAzymes and nanozymes. Inorganic Chemistry Frontiers, 2021, 8, 2183-2199.	3.0	18
39	Nitrogen-doped nanoporous graphene induced by a multiple confinement strategy for membrane separation of rare earth. IScience, 2021, 24, 101920.	1.9	24
40	Targeted liposomal drug delivery: a nanoscience and biophysical perspective. Nanoscale Horizons, 2021, 6, 78-94.	4.1	124
41	Hg(II) Adsorption on Gold Nanoparticles Dominates DNA-Based Label-Free Colorimetric Sensing. ACS Applied Nano Materials, 2021, 4, 1377-1384.	2.4	25
42	Review of recent progress on DNA-based biosensors for Pb2+ detection. Analytica Chimica Acta, 2021, 1147, 124-143.	2.6	54
43	CeO₂ Nanoparticle Transformation to Nanorods and Nanoflowers in Acids with Boosted Oxidative Catalytic Activity. ACS Applied Nano Materials, 2021, 4, 2098-2107.	2.4	6
44	Spherical Nucleic Acid Mediated Functionalization of Polydopamine-Coated Nanoparticles for Selective DNA Extraction and Detection. Bioconjugate Chemistry, 2021, 32, 801-809.	1.8	22
45	Sensing ATP: Zeolitic Imidazolate Framework-67 Is Superior to Aptamers for Target Recognition. Analytical Chemistry, 2021, 93, 7707-7713.	3.2	31
46	Freezingâ€Assisted Conjugation of Unmodified Diblock DNA to Hydrogel Nanoparticles and Monoliths for DNA and Hg²⁺ Sensing. Angewandte Chemie, 2021, 133, 13095-13101.	1.6	2
47	The Most Active Oxidaseâ€Mimicking Mn₂O₃ Nanozyme for Biosensor Signal Generation. Chemistry - A European Journal, 2021, 27, 9597-9604.	1.7	44
48	An Activatable Nanoenzyme Reactor for Coenhanced Chemodynamic and Starving Therapy Against Tumor Hypoxia and Antioxidant Defense System. CCS Chemistry, 2021, 3, 1217-1230.	4.6	26
49	Freezingâ€Assisted Conjugation of Unmodified Diblock DNA to Hydrogel Nanoparticles and Monoliths for DNA and Hg²⁺ Sensing. Angewandte Chemie - International Edition, 2021, 60, 12985-12991.	7.2	19
50	Enhancing the Sensitivity of DNA and Aptamer Probes in the Dextran/PEG Aqueous Two-Phase System. Analytical Chemistry, 2021, 93, 8577-8584.	3.2	21
51	Self-photo-oxidation for extending visible light absorption of carbon dots and oxidase-like activity. Carbon, 2021, 182, 537-544.	5.4	25
52	DNAzyme-Based Biosensors for Metal Ion Detection. , 2021, , 103-124.		0
53	Probing Metal-Dependent Phosphate Binding for the Catalysis of the 17E DNAzyme. Biochemistry, 2021, 60, 1909-1918.	1.2	6
54	Metal-Doped Polydopamine Nanoparticles for Highly Robust and Efficient DNA Adsorption and Sensing. Langmuir, 2021, 37, 8953-8960.	1.6	15

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55	Covalent Organic Framework Sponges for Efficient Solar Desalination and Selective Uranium Recovery. ACS Applied Materials & Interfaces, 2021, 13, 31561-31568.	4.0	49
56	Nanozyme for tumor therapy: Surface modification matters. Exploration, 2021, 1, 75-89.	5.4	250
57	Packing DNA on gold nanoparticles by dehydration. Matter, 2021, 4, 2585-2586.	5.0	2
58	Highly Conductive Ligandâ€Free Cs₂PtBr₆ Perovskite Nanocrystals with a Narrow Bandgap and Efficient Photoelectrochemical Performance. Small, 2021, 17, e2102149.	5.2	11
59	Selective Heavy Atom Effect Forming Photosensitizing Hot Spots in Double-Stranded DNA Matrix. Journal of Physical Chemistry Letters, 2021, 12, 9205-9212.	2.1	8
60	DNA-encoded bimetallic Au-Pt dumbbell nanozyme for high-performance detection and eradication of Escherichia coli O157:H7. Biosensors and Bioelectronics, 2021, 187, 113327.	5.3	59
61	A Glucoseâ€Powered Activatable Nanozyme Breaking pH and H₂O₂ Limitations for Treating Diabetic Infections. Angewandte Chemie - International Edition, 2021, 60, 23534-23539.	7.2	96
62	Factors and methods to modulate DNA hybridization kinetics. Biotechnology Journal, 2021, 16, e2000338.	1.8	15
63	Zn²⁺â€Coordinationâ€Driven RNA Assembly with Retained Integrity and Biological Functions. Angewandte Chemie - International Edition, 2021, 60, 22970-22976.	7.2	21
64	Interactions of the Cocaine and Quinine Aptamer with Gold Nanoparticles under the Dilute Biosensor and Concentrated NMR Conditions. Langmuir, 2021, 37, 11939-11947.	1.6	4
65	Zn²⁺â€Coordinationâ€Driven RNA Assembly with Retained Integrity and Biological Functions. Angewandte Chemie, 2021, 133, 23152-23158.	1.6	4
66	A Glucoseâ€Powered Activatable Nanozyme Breaking pH and H₂O₂ Limitations for Treating Diabetic Infections. Angewandte Chemie, 2021, 133, 23726-23731.	1.6	4
67	Trace-Water-Induced Competitive Coordination Synthesis and Functionalization of Porphyrinic Metalâ€“Organic Framework Nanoparticles for Treatment of Hypoxic Tumors. ACS Applied Bio Materials, 2021, 4, 7322-7331.	2.3	13
68	Nanozymes: A clear definition with fuzzy edges. Nano Today, 2021, 40, 101269.	6.2	332
69	Critical review of bio/nano sensors for arsenic detection. Trends in Environmental Analytical Chemistry, 2021, 32, e00143.	5.3	22
70	Editorial preface of the special issue on â€œthe progress and perspectives of biosensing research in North Americaâ€• Biosensors and Bioelectronics, 2021, 194, 113578.	5.3	0
71	Polyvalent Metal Ion Promoted Adsorption of DNA Oligonucleotides by Montmorillonite. Langmuir, 2021, 37, 1037-1044.	1.6	11
72	In vitro selection and application of lanthanide-dependent DNAzymes. Methods in Enzymology, 2021, 651, 373-396.	0.4	4

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73	Nanomaterial and Aptamer-Based Sensing: Target Binding versus Target Adsorption Illustrated by the Detection of Adenosine and ATP on Metal Oxides and Graphene Oxide. Analytical Chemistry, 2021, 93, 3018-3025.	3.2	34
74	Polyâ€Cytosine Deoxyribonucleic Acid Strongly Anchoring on Graphene Oxide Due to Flexible Backbone Phosphate Interactions. Advanced Materials Interfaces, 2021, 8, 2001798.	1.9	10
75	Frontispiz: A Glucoseâ€Powered Activatable Nanozyme Breaking pH and H₂O₂ Limitations for Treating Diabetic Infections. Angewandte Chemie, 2021, 133, .	1.6	0
76	In Situ Fabrication of Nanoceria with Oxidase-like Activity at Neutral pH: Mechanism and Boosted Bio-Nanozyme Cascades. ACS Applied Materials & Interfaces, 2021, 13, 50236-50245.	4.0	21
77	Frontispiece: A Glucoseâ€Powered Activatable Nanozyme Breaking pH and H₂O₂ Limitations for Treating Diabetic Infections. Angewandte Chemie - International Edition, 2021, 60, .	7.2	0
78	Arousing Electrochemiluminescence Out of Non-Electroluminescent Monomers within Covalent Organic Frameworks. ACS Applied Materials & Interfaces, 2021, 13, 47921-47931.	4.0	24
79	Nanozyme Catalytic Turnover and Self-Limited Reactions. ACS Nano, 2021, 15, 15645-15655.	7.3	91
80	Promotion and inhibition of oxidase-like nanoceria and peroxidase-like iron oxide by arsenate and arsenite. Inorganic Chemistry Communication, 2021, 134, 108979.	1.8	5
81	Modulation of DNAzyme Activity via Butanol Dehydration. Chemistry - an Asian Journal, 2021, 16, 4062-4066.	1.7	1
82	A novel method for fabrication of paper-based microfluidic devices using BSA-ink. International Journal of Biological Macromolecules, 2021, 193, 1617-1622.	3.6	5
83	A sensor array based on DNA-wrapped bimetallic zeolitic imidazolate frameworks for detection of ATP hydrolysis products. Nanoscale, 2021, 14, 26-34.	2.8	8
84	Replacing Mg²⁺ by Fe²⁺ for RNAâ€Cleaving DNAzymes. ChemBioChem, 2020, 21, 401-407.	1.3	11
85	Robust magnetic laccase-mimicking nanozyme for oxidizing o-phenylenediamine and removing phenolic pollutants. Journal of Environmental Sciences, 2020, 88, 103-111.	3.2	57
86	Dual Enhancement of Gold Nanocluster Electrochemiluminescence: Electrocatalytic Excitation and Aggregationâ€Induced Emission. Angewandte Chemie, 2020, 132, 10068-10071.	1.6	8
87	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
88	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
89	Dual Enhancement of Gold Nanocluster Electrochemiluminescence: Electrocatalytic Excitation and Aggregationâ€Induced Emission. Angewandte Chemie - International Edition, 2020, 59, 9982-9985.	7.2	143
90	Graphene oxide as a photocatalytic nuclease mimicking nanozyme for DNA cleavage. Nano Research, 2020, 13, 455-460.	5.8	57

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91	Synergistically Boosted Degradation of Organic Dyes by CeO₂ Nanoparticles with Fluoride at Low pH. ACS Applied Nano Materials, 2020, 3, 842-849.	2.4	26
92	Nucleoside-based fluorescent carbon dots for discrimination of metal ions. Journal of Materials Chemistry B, 2020, 8, 3640-3646.	2.9	18
93	Target Selfâ€Enhanced Selectivity in Metalâ€Specific DNAzymes. Angewandte Chemie, 2020, 132, 3601-3605.	1.6	10
94	Target Selfâ€Enhanced Selectivity in Metalâ€Specific DNAzymes. Angewandte Chemie - International Edition, 2020, 59, 3573-3577.	7.2	43
95	Regenerable Carbohydrazide-Linked Fluorescent Covalent Organic Frameworks for Ultrasensitive Detection and Removal of Mercury. ACS Sustainable Chemistry and Engineering, 2020, 8, 445-451.	3.2	108
96	Highly Stable Colorimetric Sensing by Assembly of Gold Nanoparticles with SYBR Green I: From Charge Screening to Charge Neutralization. Analytical Chemistry, 2020, 92, 1455-1462.	3.2	45
97	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
98	The Two Classic Pb²⁺â€Selective DNAzymes Are Related: Rational Evolution for Understanding Metal Selectivity. ChemBioChem, 2020, 21, 1293-1297.	1.3	16
99	Conjugation of antibodies and aptamers on nanozymes for developing biosensors. Biosensors and Bioelectronics, 2020, 168, 112537.	5.3	113
100	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
101	Direct Measurement of Aqueous Mercury(II): Combining DNA-Based Sensing with Diffusive Gradients in Thin Films. Environmental Science & Technology, 2020, 54, 13680-13689.	4.6	16
102	Liposomeâ€Boosted Peroxidaseâ€Mimicking Nanozymes Breaking the pH Limit. Chemistry - A European Journal, 2020, 26, 16659-16665.	1.7	28
103	Interfacing Catalytic DNA with Nanomaterials. Advanced Materials Interfaces, 2020, 7, 2001017.	1.9	22
104	G-quadruplex DNA for construction of biosensors. TrAC - Trends in Analytical Chemistry, 2020, 132, 116060.	5.8	60
105	Designing signal-on sensors by regulating nanozyme activity. Analytical Methods, 2020, 12, 4708-4723.	1.3	22
106	Cooperative Metal Ion-Mediated Adsorption of Spherical Nucleic Acids with a Large Hysteresis. Langmuir, 2020, 36, 14324-14332.	1.6	6
107	Detection of chloramphenicol with anÂaptamer-based colorimetric assay: critical evaluation of specific and unspecific binding of analyte molecules. Mikrochimica Acta, 2020, 187, 668.	2.5	32
108	In vitro Selection of Chemically Modified DNAzymes. ChemistryOpen, 2020, 9, 1046-1059.	0.9	28

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109	Sensing guanine and its derivatives: From molecular recognition to applications. Sensors and Actuators Reports, 2020, 2, 100020.	2.3	3
110	Highly Specific Recognition of Guanosine Using Engineered Baseâ€Excised Aptamers. Chemistry - A European Journal, 2020, 26, 13644-13651.	1.7	7
111	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
112	Thiol-suppressed I2-etching of AuNRs: acetylcholinesterase-mediated colorimetric detection of organophosphorus pesticides. Mikrochimica Acta, 2020, 187, 497.	2.5	16
113	Enhancing the peroxidase-like activity and stability of gold nanoparticles by coating a partial iron phosphate shell. Nanoscale, 2020, 12, 22467-22472.	2.8	22
114	Interfacing DNA and Polydopamine Nanoparticles and Its Applications. Particle and Particle Systems Characterization, 2020, 37, 2000208.	1.2	20
115	Sensing Adenosine and ATP by Aptamers and Gold Nanoparticles: Opposite Trends of Color Change from Domination of Target Adsorption Instead of Aptamer Binding. ACS Sensors, 2020, 5, 2885-2893.	4.0	59
116	Dissecting the Effect of Salt for More Sensitive Label-Free Colorimetric Detection of DNA Using Gold Nanoparticles. Analytical Chemistry, 2020, 92, 13354-13360.	3.2	50
117	Promoting DNA Adsorption by Acids and Polyvalent Cations: Beyond Charge Screening. Langmuir, 2020, 36, 11183-11195.	1.6	35
118	Aptamer-based strategies for recognizing adenine, adenosine, ATP and related compounds. Analyst, The, 2020, 145, 6753-6768.	1.7	36
119	Kanamycin Adsorption on Gold Nanoparticles Dominates Its Label-Free Colorimetric Sensing with Its Aptamer. Langmuir, 2020, 36, 11490-11498.	1.6	42
120	Covalent and Noncovalent Functionalization of Graphene Oxide with DNA for Smart Sensing. Advanced Intelligent Systems, 2020, 2, 2000123.	3.3	58
121	Stronger Adsorption of Phosphorothioate DNA Oligonucleotides on Graphene Oxide by van der Waals Forces. Langmuir, 2020, 36, 13708-13715.	1.6	10
122	Ptâ€“S Bondâ€Mediated Nanoflares for Highâ€Fidelity Intracellular Applications by Avoiding Thiol Cleavage. Angewandte Chemie - International Edition, 2020, 59, 14044-14048.	7.2	79
123	Ptâ€“S Bondâ€Mediated Nanoflares for Highâ€Fidelity Intracellular Applications by Avoiding Thiol Cleavage. Angewandte Chemie, 2020, 132, 14148-14152.	1.6	12
124	Selection of a metal ligand modified DNAzyme for detecting Ni2+. Biosensors and Bioelectronics, 2020, 165, 112285.	5.3	34
125	Nanozymeâ€based luminescence detection. Luminescence, 2020, 35, 1185-1194.	1.5	26
126	Dopamine and Melamine Binding to Gold Nanoparticles Dominates Their Aptamer-Based Label-Free Colorimetric Sensing. Analytical Chemistry, 2020, 92, 9370-9378.	3.2	111

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127	Good's buffers have various affinities to gold nanoparticles regulating fluorescent and colorimetric DNA sensing. Chemical Science, 2020, 11, 6795-6804.	3.7	30
128	Promotion and Inhibition of the Oxidaseâ€Mimicking Activity of Nanoceria by Phosphate, Polyphosphate, and DNA. ChemBioChem, 2020, 21, 2178-2186.	1.3	26
129	A high local DNA concentration for nucleating a DNA/Fe coordination shell on gold nanoparticles. Chemical Communications, 2020, 56, 4208-4211.	2.2	5
130	Transition Metal-Mediated DNA Adsorption on Polydopamine Nanoparticles. Langmuir, 2020, 36, 3260-3267.	1.6	25
131	Pb²⁺ as a Substrate and a Cofactor of a Porphyrin Metalation DNAzyme. ChemBioChem, 2020, 21, 2259-2263.	1.3	9
132	Attaching DNA to Gold Nanoparticles With a Protein Corona. Frontiers in Chemistry, 2020, 8, 121.	1.8	36
133	Cleaving DNA by nanozymes. Journal of Materials Chemistry B, 2020, 8, 7135-7142.	2.9	39
134	Interactions between gold, thiol and As(<scp>iii</scp>) for colorimetric sensing. Analyst, The, 2020, 145, 5166-5173.	1.7	11
135	Orthogonal Adsorption of Carbon Dots and DNA on Nanoceria. Langmuir, 2020, 36, 2474-2481.	1.6	8
136	Photoactivatable fluorescent probes for spatiotemporal-controlled biosensing and imaging. TrAC - Trends in Analytical Chemistry, 2020, 125, 115811.	5.8	33
137	Engineering base-excised aptamers for highly specific recognition of adenosine. Chemical Science, 2020, 11, 2735-2743.	3.7	27
138	Catalytic Nucleic Acids: Biochemistry, Chemical Biology, Biosensors, and Nanotechnology. IScience, 2020, 23, 100815.	1.9	117
139	Highly Selective Fluorescent Sensing of Phosphite through Recovery of Poisoned Nickel Oxide Nanozyme. Analytical Chemistry, 2020, 92, 3118-3124.	3.2	35
140	Regenerable and stable sp2 carbon-conjugated covalent organic frameworks for selective detection and extraction of uranium. Nature Communications, 2020, 11, 436.	5.8	383
141	Yttrium Oxide as a Strongly Adsorbing but Nonquenching Surface for DNA Oligonucleotides. Langmuir, 2020, 36, 1034-1042.	1.6	7
142	Leakage and Rupture of Lipid Membranes by Charged Polymers and Nanoparticles. Langmuir, 2020, 36, 810-818.	1.6	21
143	Light-activated nanozymes: catalytic mechanisms and applications. Nanoscale, 2020, 12, 2914-2923.	2.8	112
144	Sensitivity of a classic DNAzyme for Pb²⁺ modulated by cations, anions and buffers. Analyst, The, 2020, 145, 1384-1388.	1.7	14

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145	Opposite salt-dependent stability of i-motif and duplex reflected in a single DNA hairpin nanomachine. Nanotechnology, 2020, 31, 195503.	1.3	8
146	Concentric DNA Amplifier That Streamlines In-Solution Biorecognition and On-Particle Biocatalysis. Analytical Chemistry, 2020, 92, 3220-3227.	3.2	17
147	Solving the H2O2 by-product problem using a catalase-mimicking nanozyme cascade to enhance glycolic acid oxidase. Chemical Engineering Journal, 2020, 388, 124249.	6.6	49
148	Selfâ€limited Phosphataseâ€mimicking CeO₂ Nanozymes. ChemNanoMat, 2020, 6, 947-952.	1.5	58
149	Molecular Detection Using Nanozymes. Nanostructure Science and Technology, 2020, , 395-424.	0.1	2
150	An in Vitroâ€“Selected DNAzyme Mutant Highly Specific for Na + under Slightly Acidic Conditions. ChemBioChem, 2019, 20, 537-542.	1.3	17
151	Growing a Nucleotide/Lanthanide Coordination Polymer Shell on Liposomes. Langmuir, 2019, 35, 11217-11224.	1.6	9
152	Freezing promoted hybridization of very short DNA oligonucleotides. Chemical Communications, 2019, 55, 10300-10303.	2.2	11
153	Robust Colorimetric Detection of Cu2+ by Excessed Nucleotide Coordinated Nanozymes. Journal of Analysis and Testing, 2019, 3, 260-268.	2.5	13
154	Efficient DNA-Catalyzed Porphyrin Metalation for Fluorescent Ratiometric Pb²⁺ Detection. Analytical Chemistry, 2019, 91, 11403-11408.	3.2	74
155	Gold nanoparticles as dehydrogenase mimicking nanozymes for estradiol degradation. Chinese Chemical Letters, 2019, 30, 1655-1658.	4.8	33
156	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
157	The Arsenic-Binding Aptamer Cannot Bind Arsenic: Critical Evaluation of Aptamer Selection and Binding. Analytical Chemistry, 2019, 91, 10887-10893.	3.2	79
158	Preâ€oxidation of Gold Nanoclusters Results in a 66â€‰% Anodic Electrochemiluminescence Yield and Drives Mechanistic Insights. Angewandte Chemie, 2019, 131, 11817-11820.	1.6	19
159	Fluorescence Polarization for Probing DNA Adsorption by Nanomaterials and Fluorophore/DNA Interactions. Langmuir, 2019, 35, 9954-9961.	1.6	9
160	Mn²⁺-Assisted DNA Oligonucleotide Adsorption on Ti₂C MXene Nanosheets. Langmuir, 2019, 35, 9858-9866.	1.6	31
161	Current and emerging tools for detecting protozoan cysts and oocysts in water. TrAC - Trends in Analytical Chemistry, 2019, 121, 115695.	5.8	24
162	Coordination Nanoparticles Formed by Fluorescent 2-Aminopurine and Au3+: Stability and Nanozyme Activities. Journal of Analysis and Testing, 2019, 3, 219-227.	2.5	7

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163	Special Topic: Nanozyme-Based Analysis and Testing. Journal of Analysis and Testing, 2019, 3, 189-190.	2.5	5
164	Sensors and biosensors based on metal oxide nanomaterials. TrAC - Trends in Analytical Chemistry, 2019, 121, 115690.	5.8	78
165	Adsorption Promoted Aggregation-Induced Emission Showing Strong Dye Lateral Interactions. Langmuir, 2019, 35, 16304-16311.	1.6	8
166	Gold Nanoparticles Adsorb DNA and Aptamer Probes Too Strongly and a Comparison with Graphene Oxide for Biosensing. Analytical Chemistry, 2019, 91, 14743-14750.	3.2	75
167	NIR Light-Responsive Hollow Porous Gold Nanospheres for Controllable Pressure-Based Sensing and Photothermal Therapy of Cancer Cells. Analytical Chemistry, 2019, 91, 15418-15424.	3.2	41
168	Cytoplasmic Protein-Powered In Situ Fluorescence Amplification for Intracellular Assay of Low-Abundance Analyte. Analytical Chemistry, 2019, 91, 15179-15186.	3.2	13
169	Fluorescein-Stabilized i-Motif DNA and Its Unfolding Leading to a Stronger Adsorption Affinity. Langmuir, 2019, 35, 11932-11939.	1.6	11
170	Development and application of DNA-aptamer-coupled magnetic beads and aptasensors for the detection of Cryptosporidium parvum oocysts in drinking and recreational water resources. Canadian Journal of Microbiology, 2019, 65, 851-857.	0.8	21
171	Effects of Small Molecules on DNA Adsorption by Gold Nanoparticles and a Case Study of Tris(2-carboxyethyl)phosphine (TCEP). Langmuir, 2019, 35, 13461-13468.	1.6	19
172	Interface-Driven Hybrid Materials Based on DNA-Functionalized Gold Nanoparticles. Matter, 2019, 1, 825-847.	5.0	147
173	Adsorption of DNA Oligonucleotides by Boronic Acid-Functionalized Hydrogel Nanoparticles. Langmuir, 2019, 35, 13727-13734.	1.6	14
174	Etching silver nanoparticles using DNA. Materials Horizons, 2019, 6, 155-159.	6.4	35
175	Surface-assisted assembly of a histidine-rich lipidated peptide for simultaneous exfoliation of graphite and functionalization of graphene nanosheets. Nanoscale, 2019, 11, 2999-3012.	2.8	39
176	Recent progress in nanomaterial-enhanced fluorescence polarization/anisotropy sensors. Chinese Chemical Letters, 2019, 30, 1575-1580.	4.8	39
177	Fluorescent detection of fluoride by CeO2 nanozyme oxidation of Amplex red. Inorganic Chemistry Communication, 2019, 106, 38-42.	1.8	26
178	Preâ€oxidation of Gold Nanoclusters Results in a 66â€‰% Anodic Electrochemiluminescence Yield and Drives Mechanistic Insights. Angewandte Chemie - International Edition, 2019, 58, 11691-11694.	7.2	128
179	Selection of DNAzymes for Sensing Aquatic Bacteria: Vibrio Anguillarum. Analytical Chemistry, 2019, 91, 7887-7893.	3.2	34
180	Adsorption of Arsenite on Gold Nanoparticles Studied with DNA Oligonucleotide Probes. Langmuir, 2019, 35, 7304-7311.	1.6	49

#	Article	IF	Citations
181	Freezing-Driven DNA Adsorption on Gold Nanoparticles: Tolerating Extremely Low Salt Concentration but Requiring High DNA Concentration. Langmuir, 2019, 35, 6476-6482.	1.6	59
182	Unified Etching and Protection of Faceted Silver Nanostructures by DNA Oligonucleotides. Journal of Physical Chemistry C, 2019, 123, 12015-12022.	1.5	9
183	Phosphorothioate DNA Mediated Sequence-Insensitive Etching and Ripening of Silver Nanoparticles. Frontiers in Chemistry, 2019, 7, 198.	1.8	5
184	Cryptosporidium parvum oocyst directed assembly of gold nanoparticles and graphene oxide. Frontiers of Chemical Science and Engineering, 2019, 13, 608-615.	2.3	12
185	Probing Local Folding Allows Robust Metal Sensing Based on a Na + â€Specific DNAzyme. ChemBioChem, 2019, 20, 2241-2247.	1.3	4
186	Fabrication of nanoporous graphene/cuprous oxide nanocomposite and its application for chemiluminescence sensing of NADH in human serum and cells. Sensors and Actuators B: Chemical, 2019, 290, 15-22.	4.0	38
187	Manganese as a Catalytic Mediator for Photo-oxidation and Breaking the pH Limitation of Nanozymes. Nano Letters, 2019, 19, 3214-3220.	4.5	161
188	Molecularly imprinted nanozymes with faster catalytic activity and better specificity. Nanoscale, 2019, 11, 4854-4863.	2.8	69
189	Nucleotide and DNA coordinated lanthanides: From fundamentals to applications. Coordination Chemistry Reviews, 2019, 387, 235-248.	9.5	54
190	Molecular Imprinting with Functional DNA. Small, 2019, 15, e1805246.	5.2	53
191	Fluoride-capped nanoceria as a highly efficient oxidase-mimicking nanozyme: inhibiting product adsorption and increasing oxygen vacancies. Nanoscale, 2019, 11, 17841-17850.	2.8	77
192	Nanoceria as a DNase I mimicking nanozyme. Chemical Communications, 2019, 55, 13215-13218.	2.2	61
193	Lanthanide-Boosted Singlet Oxygen from Diverse Photosensitizers along with Potent Photocatalytic Oxidation. ACS Nano, 2019, 13, 14152-14161.	7.3	80
194	Intentional hydrolysis to overcome the hydrolysis problem: detection of Ce(<scp>iv</scp>) by producing oxidase-like nanozymes with F^{â”}. Chemical Communications, 2019, 55, 13434-13437.	2.2	14
195	Freezingâ€directed Stretching and Alignment of DNA Oligonucleotides. Angewandte Chemie - International Edition, 2019, 58, 2109-2113.	7.2	42
196	Freezingâ€directed Stretching and Alignment of DNA Oligonucleotides. Angewandte Chemie, 2019, 131, 2131-2135.	1.6	16
197	Charge and Coordination Directed Liposome Fusion onto SiO₂ and TiO₂ Nanoparticles. Langmuir, 2019, 35, 1672-1681.	1.6	19
198	Potential use of aptamers for diagnosis and treatment of pancreatic cancer. Journal of Drug Targeting, 2019, 27, 853-865.	2.1	6

#	Article	IF	Citations
199	Global Folding of a Na⁺â€Specific DNAzyme Studied by FRET. ChemBioChem, 2019, 20, 385-393.	1.3	3
200	Instantaneous Iodine-Assisted DNAzyme Cleavage of Phosphorothioate RNA. Biochemistry, 2019, 58, 422-429.	1.2	5
201	Freezing DNA for Controlling Bio/nano Interfaces and Catalysis. General Chemistry, 2019, 5, 190008-190008.	0.6	4
202	Fluorescent DNA Probing Nanoscale MnO₂: Adsorption, Dissolution by Thiol, and Nanozyme Activity. Langmuir, 2018, 34, 3094-3101.	1.6	50
203	Frontispiece: Photosensitization of Molecular Oxygen on Graphene Oxide for Ultrasensitive Signal Amplification. Chemistry - A European Journal, 2018, 24, .	1.7	0
204	Frontispiece: Selection and Screening of DNA Aptamers for Inorganic Nanomaterials. Chemistry - A European Journal, 2018, 24, .	1.7	0
205	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
206	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
207	Transition Metal Dichalcogenide Nanosheets for Visual Monitoring PCR Rivaling a Real-Time PCR Instrument. ACS Applied Materials & Interfaces, 2018, 10, 4409-4418.	4.0	15
208	An RNAâ€Cleaving Catalytic DNA Accelerated by Freezing. ChemBioChem, 2018, 19, 1012-1017.	1.3	12
209	Bromide as a Robust Backfiller on Gold for Precise Control of DNA Conformation and High Stability of Spherical Nucleic Acids. Journal of the American Chemical Society, 2018, 140, 4499-4502.	6.6	91
210	Screening of DNAzyme mutants for highly sensitive and selective detection of calcium in milk. Analytical Methods, 2018, 10, 1740-1746.	1.3	13
211	Headgroup-Inversed Liposomes: Biointerfaces, Supported Bilayers and Applications. Langmuir, 2018, 34, 9337-9348.	1.6	18
212	Nucleotide coordination with 14 lanthanides studied by isothermal titration calorimetry. Chinese Chemical Letters, 2018, 29, 151-156.	4.8	28
213	Folding of the silver aptamer in a DNAzyme probed by 2-aminopurine fluorescence. Biochimie, 2018, 145, 145-150.	1.3	14
214	Multi-metal-dependent nucleic acid enzymes. Metallomics, 2018, 10, 30-48.	1.0	40
215	Janus DNA orthogonal adsorption of graphene oxide and metal oxide nanoparticles enabling stable sensing in serum. Materials Horizons, 2018, 5, 65-69.	6.4	88
216	Ultrasensitive DNAzymeâ€Based Ca²⁺ Detection Boosted by Ethanol and a Solventâ€Compatible Scaffold for Aptazyme Design. ChemBioChem, 2018, 19, 31-36.	1.3	32

#	Article	IF	Citations
217	Length-Dependent Diblock DNA with Poly-cytosine (Poly-C) as High-Affinity Anchors on Graphene Oxide. Langmuir, 2018, 34, 1171-1177.	1.6	40
218	Interfacing DNA Oligonucleotides with Calcium Phosphate and Other Metal Phosphates. Langmuir, 2018, 34, 14975-14982.	1.6	19
219	Selection and Screening of DNA Aptamers for Inorganic Nanomaterials. Chemistry - A European Journal, 2018, 24, 2525-2532.	1.7	38
220	Photosensitization of Molecular Oxygen on Graphene Oxide for Ultrasensitive Signal Amplification. Chemistry - A European Journal, 2018, 24, 2602-2608.	1.7	22
221	Highly active fluorogenic oxidase-mimicking NiO nanozymes. Chemical Communications, 2018, 54, 12519-12522.	2.2	80
222	Reselection Yielding a Smaller and More Active Silver-Specific DNAzyme. ACS Omega, 2018, 3, 15174-15181.	1.6	6
223	Stabilization of Liposomes by Perfluorinated Compounds. ACS Omega, 2018, 3, 15353-15360.	1.6	4
224	DNA-Functionalized Nanoceria for Probing Oxidation of Phosphorus Compounds. Langmuir, 2018, 34, 15871-15877.	1.6	23
225	Phosphorescent Carbon Dots for Highly Efficient Oxygen Photosensitization and as Photo-oxidative Nanozymes. ACS Applied Materials & Interfaces, 2018, 10, 40808-40814.	4.0	192
226	Misfolding of a DNAzyme for ultrahigh sodium selectivity over potassium. Nucleic Acids Research, 2018, 46, 10262-10271.	6.5	21
227	Cu2+-Directed Liposome Membrane Fusion, Positive-Stain Electron Microscopy, and Oxidation. Langmuir, 2018, 34, 7545-7553.	1.6	11
228	DNA Oligonucleotide-Functionalized Liposomes: Bioconjugate Chemistry, Biointerfaces, and Applications. Langmuir, 2018, 34, 15000-15013.	1.6	41
229	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
230	NiO Nanoparticles for Exceptionally Stable DNA Adsorption and Its Extraction from Biological Fluids. Langmuir, 2018, 34, 9314-9321.	1.6	20
231	Interactions between citrate-capped gold nanoparticles and polymersomes. Journal Physics D: Applied Physics, 2018, 51, 244001.	1.3	4
232	Sub-Angstrom Gold Nanoparticle/Liposome Interfaces Controlled by Halides. Langmuir, 2018, 34, 6628-6635.	1.6	16
233	Continuously Tunable Nucleotide/Lanthanide Coordination Nanoparticles for DNA Adsorption and Sensing. ACS Omega, 2018, 3, 9043-9051.	1.6	26
234	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

#	Article	IF	Citations
235	Polyvalent Spherical Nucleic Acids for Universal Display of Functional DNA with Ultrahigh Stability. Angewandte Chemie - International Edition, 2018, 57, 9439-9442.	7.2	53
236	Intracellular delivery of a molecularly imprinted peroxidase mimicking DNAzyme for selective oxidation. Materials Horizons, 2018, 5, 738-744.	6.4	44
237	Adsorption of Phosphate and Polyphosphate on Nanoceria Probed by DNA Oligonucleotides. Langmuir, 2018, 34, 7899-7905.	1.6	38
238	Polyvalent Spherical Nucleic Acids for Universal Display of Functional DNA with Ultrahigh Stability. Angewandte Chemie, 2018, 130, 9583-9586.	1.6	16
239	An Exceptionally Selective DNA Cooperatively Binding Two Ca²⁺ Ions. ChemBioChem, 2017, 18, 518-522.	1.3	63
240	Surface modification of nanozymes. Nano Research, 2017, 10, 1125-1148.	5.8	406
241	Tuning DNA adsorption affinity and density on metal oxide and phosphate for improved arsenate detection. Journal of Colloid and Interface Science, 2017, 493, 249-256.	5.0	47
242	Kinetic Discrimination of Metal Ions Using DNA for Highly Sensitive and Selective Cr³⁺ Detection. ACS Sensors, 2017, 2, 663-669.	4.0	33
243	Methods for preparing DNA-functionalized gold nanoparticles, a key reagent of bioanalytical chemistry. Analytical Methods, 2017, 9, 2633-2643.	1.3	173
244	Polyâ€cytosine DNA as a Highâ€Affinity Ligand for Inorganic Nanomaterials. Angewandte Chemie, 2017, 129, 6304-6308.	1.6	21
245	Polyâ€cytosine DNA as a Highâ€Affinity Ligand for Inorganic Nanomaterials. Angewandte Chemie - International Edition, 2017, 56, 6208-6212.	7.2	132
246	Dipole Orientation Matters: Longer-Circulating Choline Phosphate than Phosphocholine Liposomes for Enhanced Tumor Targeting. ACS Applied Materials & Interfaces, 2017, 9, 17736-17744.	4.0	32
247	Reversible gating of ion transport through DNA-functionalized carbon nanotube membranes. RSC Advances, 2017, 7, 611-616.	1.7	9
248	Enhanced DNA sensitized Tb3+ luminescence in organic solvents for more sensitive detection. Analytica Chimica Acta, 2017, 977, 44-51.	2.6	12
249	New insights into a classic aptamer: binding sites, cooperativity and more sensitive adenosine detection. Nucleic Acids Research, 2017, 45, 7593-7601.	6.5	131
250	Metal Sensing by DNA. Chemical Reviews, 2017, 117, 8272-8325.	23.0	713
251	Adsorption of Selenite and Selenate by Metal Oxides Studied with Fluorescent DNA Probes for Analytical Application. Journal of Analysis and Testing, 2017, 1, 1.	2.5	22
252	Molecular Imprinting on Inorganic Nanozymes for Hundred-fold Enzyme Specificity. Journal of the American Chemical Society, 2017, 139, 5412-5419.	6.6	522

#	Article	IF	Citations
253	A Silver-Specific DNAzyme with a New Silver Aptamer and Salt-Promoted Activity. Biochemistry, 2017, 56, 1955-1962.	1.2	36
254	Molecular Imprinting for Substrate Selectivity and Enhanced Activity of Enzyme Mimics. Small, 2017, 13, 1602730.	5.2	59
255	Comparison of MoS₂, WS₂, and Graphene Oxide for DNA Adsorption and Sensing. Langmuir, 2017, 33, 630-637.	1.6	179
256	Multicopper Laccase Mimicking Nanozymes with Nucleotides as Ligands. ACS Applied Materials & Interfaces, 2017, 9, 1352-1360.	4.0	319
257	Siteâ€Selective Labeling of Chromium(III) as a Quencher on DNA for Molecular Beacons. ChemPlusChem, 2017, 82, 1224-1230.	1.3	9
258	Selfâ€Assembly of Nucleobase, Nucleoside and Nucleotide Coordination Polymers: From Synthesis to Applications. ChemNanoMat, 2017, 3, 670-684.	1.5	54
259	Splitting a DNAzyme enables a Na⁺-dependent FRET signal from the embedded aptamer. Organic and Biomolecular Chemistry, 2017, 15, 6959-6966.	1.5	11
260	Hybrid nanomaterials of WS₂ or MoS₂ nanosheets with liposomes: biointerfaces and multiplexed drug delivery. Nanoscale, 2017, 9, 13187-13194.	2.8	42
261	Zn²⁺ Induced Irreversible Aggregation, Stacking, and Leakage of Choline Phosphate Liposomes. Langmuir, 2017, 33, 14472-14479.	1.6	16
262	A Cell-Mimicking Structure Converting Analog Volume Changes to Digital Colorimetric Output with Molecular Selectivity. Nano Letters, 2017, 17, 7926-7931.	4.5	33
263	Two Completely Different Mechanisms for Highly Specific Na⁺ Recognition by DNAzymes. ChemBioChem, 2017, 18, 1828-1835.	1.3	22
264	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
265	2-Aminopurine-modified DNA homopolymers for robust and sensitive detection of mercury and silver. Biosensors and Bioelectronics, 2017, 87, 171-177.	5.3	75
266	Filling in the Gaps between Nanozymes and Enzymes: Challenges and Opportunities. Bioconjugate Chemistry, 2017, 28, 2903-2909.	1.8	290
267	Theranostic DNAzymes. Theranostics, 2017, 7, 1010-1025.	4.6	190
268	Fluorescent sensors for sodium ions. Analytical Methods, 2017, 9, 5570-5579.	1.3	26
269	Label-Free Ag+ Detection by Enhancing DNA Sensitized Tb3+ Luminescence. Sensors, 2016, 16, 1370.	2.1	12
270	A Selective Na⁺ Aptamer Dissected by Sensitized Tb³⁺ Luminescence. ChemBioChem, 2016, 17, 1563-1570.	1.3	26

#	Article	IF	Citations
271	In Vitro Selection of Chromiumâ€Dependent DNAzymes for Sensing Chromium(III) and Chromium(VI). Chemistry - A European Journal, 2016, 22, 9835-9840.	1.7	57
272	A New Na⁺â€Dependent RNAâ€Cleaving DNAzyme with over 1000â€fold Rate Acceleration by Ethanol. ChemBioChem, 2016, 17, 159-163.	1.3	70
273	Graphene oxide surface blocking agents can increase the DNA biosensor sensitivity. Biotechnology Journal, 2016, 11, 780-787.	1.8	43
274	DNA Adsorption by ZnO Nanoparticles near Its Solubility Limit: Implications for DNA Fluorescence Quenching and DNAzyme Activity Assays. Langmuir, 2016, 32, 5672-5680.	1.6	63
275	Liposome/Graphene Oxide Interaction Studied by Isothermal Titration Calorimetry. Langmuir, 2016, 32, 2458-2463.	1.6	30
276	Interfacing Zwitterionic Liposomes with Inorganic Nanomaterials: Surface Forces, Membrane Integrity, and Applications. Langmuir, 2016, 32, 4393-4404.	1.6	88
277	In Vitro Selection of a DNAzyme Cooperatively Binding Two Lanthanide Ions for RNA Cleavage. Biochemistry, 2016, 55, 2518-2525.	1.2	38
278	Distinction of Individual Lanthanide Ions with a DNAzyme Beacon Array. ACS Sensors, 2016, 1, 732-738.	4.0	44
279	Profiling Metal Oxides with Lipids: Magnetic Liposomal Nanoparticles Displaying DNA and Proteins. Angewandte Chemie, 2016, 128, 12242-12246.	1.6	3
280	Comparison of Graphene Oxide and Reduced Graphene Oxide for DNA Adsorption and Sensing. Langmuir, 2016, 32, 10776-10783.	1.6	123
281	A highly specific sodium aptamer probed by 2-aminopurine for robust Na+sensing. Nucleic Acids Research, 2016, 44, gkw845.	6.5	32
282	DNA adsorbed on graphene and graphene oxide: Fundamental interactions, desorption and applications. Current Opinion in Colloid and Interface Science, 2016, 26, 41-49.	3.4	224
283	Cr³⁺ Binding to DNA Backbone Phosphate and Bases: Slow Ligand Exchange Rates and Metal Hydrolysis. Inorganic Chemistry, 2016, 55, 8193-8200.	1.9	29
284	Profiling Metal Oxides with Lipids: Magnetic Liposomal Nanoparticles Displaying DNA and Proteins. Angewandte Chemie - International Edition, 2016, 55, 12063-12067.	7.2	47
285	Adsorption of Nanoceria by Phosphocholine Liposomes. Langmuir, 2016, 32, 13276-13283.	1.6	26
286	Parallel Polyadenine Duplex Formation at Low pH Facilitates DNA Conjugation onto Gold Nanoparticles. Langmuir, 2016, 32, 11986-11992.	1.6	63
287	An Efficient Lanthanideâ€Dependent DNAzyme Cleaving 2â€²â€“5â€²â€Linked RNA. ChemBioChem, 2016, 17, 890-894.	1.3	17
288	Iron oxide nanozyme catalyzed synthesis of fluorescent polydopamine for light-up Zn²⁺detection. Nanoscale, 2016, 8, 13620-13626.	2.8	103

#	Article	IF	Citations
289	Boosting the oxidase mimicking activity of nanoceria by fluoride capping: rivaling protein enzymes and ultrasensitive F^{â˜†}detection. Nanoscale, 2016, 8, 13562-13567.	2.8	209
290	Magnetic Iron Oxide Nanoparticle Seeded Growth of Nucleotide Coordinated Polymers. ACS Applied Materials & Interfaces, 2016, 8, 15615-15622.	4.0	57
291	A comparison of two classic Pb²⁺-dependent RNA-cleaving DNAzymes. Inorganic Chemistry Frontiers, 2016, 3, 494-501.	3.0	37
292	A DNAzyme requiring two different metal ions at two distinct sites. Nucleic Acids Research, 2016, 44, 354-363.	6.5	80
293	Hg²⁺ detection using a phosphorothioate RNA probe adsorbed on graphene oxide and a comparison with thymine-rich DNA. Analyst, The, 2016, 141, 3788-3793.	1.7	32
294	A Silver DNAzyme. Analytical Chemistry, 2016, 88, 4014-4020.	3.2	163
295	In Vitro Selection in Serum: RNA-Cleaving DNAzymes for Measuring Ca²⁺ and Mg²⁺. ACS Sensors, 2016, 1, 600-606.	4.0	66
296	Co-immobilization of multiple enzymes by metal coordinated nucleotide hydrogel nanofibers: improved stability and an enzyme cascade for glucose detection. Nanoscale, 2016, 8, 6071-6078.	2.8	141
297	An Ultrasensitive Light-up Cu²⁺ Biosensor Using a New DNAzyme Cleaving a Phosphorothioate-Modified Substrate. Analytical Chemistry, 2016, 88, 3341-3347.	3.2	94
298	Molecularly Imprinted Polymers with DNA Aptamer Fragments as Macromonomers. ACS Applied Materials & Interfaces, 2016, 8, 6371-6378.	4.0	63
299	Covalent linking DNA to graphene oxide and its comparison with physisorbed probes for Hg2+ detection. Biosensors and Bioelectronics, 2016, 79, 244-250.	5.3	46
300	G-Quadruplex DNA for Fluorescent and Colorimetric Detection of Thallium(I). ACS Sensors, 2016, 1, 137-143.	4.0	61
301	Phosphorothioate DNA Stabilized Fluorescent Gold and Silver Nanoclusters. Nanomaterials, 2015, 5, 804-813.	1.9	18
302	Rational evolution of Cd²⁺-specific DNAzymes with phosphorothioate modified cleavage junction and Cd²⁺sensing. Nucleic Acids Research, 2015, 43, 6125-6133.	6.5	136
303	Cleavable Molecular Beacon for Hg²⁺ Detection Based on Phosphorothioate RNA Modifications. Analytical Chemistry, 2015, 87, 6890-6895.	3.2	67
304	Tandem DNAzymes for mRNA cleavage: Choice of enzyme, metal ions and the antisense effect. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 1460-1463.	1.0	31
305	Multi-walled carbon nanotubes modified screen-printed electrodes for cisplatin detection. Electrochimica Acta, 2015, 158, 271-276.	2.6	43
306	A new heavy lanthanide-dependent DNAzyme displaying strong metal cooperativity and unrescuable phosphorothioate effect. Nucleic Acids Research, 2015, 43, 461-469.	6.5	75

#	Article	IF	Citations
307	Hydrogen Peroxide Displacing DNA from Nanoceria: Mechanism and Detection of Glucose in Serum. Journal of the American Chemical Society, 2015, 137, 1290-1295.	6.6	370
308	Aptamer density dependent cellular uptake of lipid-capped polymer nanoparticles for polyvalent targeted delivery of vinorelbine to cancer cells. RSC Advances, 2015, 5, 16931-16939.	1.7	38
309	DNAzyme Hybridization, Cleavage, Degradation, and Sensing in Undiluted Human Blood Serum. Analytical Chemistry, 2015, 87, 4001-4007.	3.2	52
310	Accelerating peroxidase mimicking nanozymes using DNA. Nanoscale, 2015, 7, 13831-13835.	2.8	186
311	Lanthanide-dependent RNA-cleaving DNAzymes as metal biosensors. Canadian Journal of Chemistry, 2015, 93, 273-278.	0.6	16
312	A Comprehensive Immunoreceptor Phosphotyrosine-based Signaling Network Revealed by Reciprocal Proteinâ€“Peptide Array Screening. Molecular and Cellular Proteomics, 2015, 14, 1846-1858.	2.5	28
313	Inhibiting the VIM-2 Metallo-Î²-Lactamase by Graphene Oxide and Carbon Nanotubes. ACS Applied Materials & Interfaces, 2015, 7, 9898-9903.	4.0	25
314	A platinum shell for ultraslow ligand exchange: unmodified DNA adsorbing more stably on platinum than thiol and dithiol on gold. Chemical Communications, 2015, 51, 12084-12087.	2.2	21
315	Comprehensive Screen of Metal Oxide Nanoparticles for DNA Adsorption, Fluorescence Quenching, and Anion Discrimination. ACS Applied Materials & Interfaces, 2015, 7, 24833-24838.	4.0	116
316	Searching for a DNAzyme Version of the Leadzyme. Journal of Molecular Evolution, 2015, 81, 235-244.	0.8	19
317	Desulfurization Activated Phosphorothioate DNAzyme for the Detection of Thallium. Analytical Chemistry, 2015, 87, 10443-10449.	3.2	28
318	Improving molecularly imprinted nanogels by pH modulation. RSC Advances, 2015, 5, 91018-91025.	1.7	6
319	Biochemical Characterization of a Lanthanide-Dependent DNAzyme with Normal and Phosphorothioate-Modified Substrates. Biochemistry, 2015, 54, 6132-6138.	1.2	36
320	A Stable Lipid/TiO₂ Interface with Headgroup-Inversed Phosphocholine and a Comparison with SiO₂. Journal of the American Chemical Society, 2015, 137, 11736-11742.	6.6	61
321	Self-healing metal-coordinated hydrogels using nucleotide ligands. Chemical Communications, 2015, 51, 15196-15199.	2.2	101
322	Self-healable and reversible liposome leakage by citrate-capped gold nanoparticles: probing the initial adsorption/desorption induced lipid phase transition. Nanoscale, 2015, 7, 15599-15604.	2.8	49
323	Driving Adsorbed Gold Nanoparticle Assembly by Merging Lipid Gel/Fluid Interfaces. Langmuir, 2015, 31, 13271-13274.	1.6	39
324	Evaporation induced wrinkling of graphene oxide at the nanoparticle interface. Nanoscale, 2015, 7, 919-923.	2.8	14

#	Article	IF	Citations
325	DNA Adsorption by Indium Tin Oxide Nanoparticles. Langmuir, 2015, 31, 371-377.	1.6	45
326	Glutathione-s-transferase modified electrodes for detecting anticancer drugs. Biosensors and Bioelectronics, 2014, 58, 232-236.	5.3	44
327	Degradable starch nanoparticle assisted ethanol precipitation of DNA. Carbohydrate Polymers, 2014, 110, 354-359.	5.1	11
328	Aptamer-based biosensors for biomedical diagnostics. Analyst, The, 2014, 139, 2627.	1.7	435
329	Characterization of glucose oxidation by gold nanoparticles using nanoceria. Journal of Colloid and Interface Science, 2014, 428, 78-83.	5.0	84
330	Platinated DNA oligonucleotides: new probes forming ultrastable conjugates with graphene oxide. Nanoscale, 2014, 6, 7079.	2.8	18
331	Intracellular Detection of ATP Using an Aptamer Beacon Covalently Linked to Graphene Oxide Resisting Nonspecific Probe Displacement. Analytical Chemistry, 2014, 86, 12229-12235.	3.2	160
332	Cation-Size-Dependent DNA Adsorption Kinetics and Packing Density on Gold Nanoparticles: An Opposite Trend. Langmuir, 2014, 30, 13228-13234.	1.6	28
333	Two Pb2+-specific DNAzymes with opposite trends in split-site-dependent activity. Chemical Communications, 2014, 50, 4442.	2.2	21
334	The group trend of lanthanides binding to DNA and DNAzymes with a complex but symmetric pattern. Chemical Communications, 2014, 50, 11859-11862.	2.2	26
335	In Vitro Selection of a New Lanthanide-Dependent DNAzyme for Ratiometric Sensing Lanthanides. Analytical Chemistry, 2014, 86, 9993-9999.	3.2	82
336	Aptamer-nanoparticle bioconjugates enhance intracellular delivery of vinorelbine to breast cancer cells. Journal of Drug Targeting, 2014, 22, 57-66.	2.1	47
337	Functional Nucleic Acid-Directed Assembly of Nanomaterials and Their Applications as Colorimetric and Fluorescent Sensors for Trace Contaminants in Water. , 2014, , 73-92.		0
338	Fluorescent sensors using DNA-functionalized graphene oxide. Analytical and Bioanalytical Chemistry, 2014, 406, 6885-6902.	1.9	119
339	Ultrasensitive DNAzyme Beacon for Lanthanides and Metal Speciation. Analytical Chemistry, 2014, 86, 1816-1821.	3.2	133
340	DNA adsorption by magnetic iron oxide nanoparticles and its application for arsenate detection. Chemical Communications, 2014, 50, 8568.	2.2	132
341	DNA-stabilized, fluorescent, metal nanoclusters for biosensor development. TrAC - Trends in Analytical Chemistry, 2014, 58, 99-111.	5.8	181
342	Adsorption of DNA Oligonucleotides by Titanium Dioxide Nanoparticles. Langmuir, 2014, 30, 839-845.	1.6	94

#	Article	IF	Citations
343	Towards understanding of poly-guanine activated fluorescent silver nanoclusters. Nanotechnology, 2014, 25, 155501.	1.3	34
344	Sensing Parts-per-Trillion Cd²⁺, Hg²⁺, and Pb²⁺ Collectively and Individually Using Phosphorothioate DNAzymes. Analytical Chemistry, 2014, 86, 5999-6005.	3.2	102
345	Tandem Phosphorothioate Modifications for DNA Adsorption Strength and Polarity Control on Gold Nanoparticles. ACS Applied Materials & Interfaces, 2014, 6, 14795-14800.	4.0	60
346	Liposome Supported Metal Oxide Nanoparticles: Interaction Mechanism, Light Controlled Content Release, and Intracellular Delivery. Small, 2014, 10, 3927-3931.	5.2	63
347	Attaching DNA to Nanoceria: Regulating Oxidase Activity and Fluorescence Quenching. ACS Applied Materials & Interfaces, 2013, 5, 6820-6825.	4.0	183
348	Toward Fast and Quantitative Modification of Large Gold Nanoparticles by Thiolated DNA: Scaling of Nanoscale Forces, Kinetics, and the Need for Thiol Reduction. Journal of Physical Chemistry C, 2013, 117, 15677-15684.	1.5	55
349	Mechanisms of DNA Sensing on Graphene Oxide. Analytical Chemistry, 2013, 85, 7987-7993.	3.2	201
350	Nanodiamond decorated liposomes as highly biocompatible delivery vehicles and a comparison with carbon nanotubes and graphene oxide. Nanoscale, 2013, 5, 12375.	2.8	49
351	Mesoporous silica-supported lipid bilayers (protocells) for DNA cargo delivery to the spinal cord. Journal of Controlled Release, 2013, 168, 209-224.	4.8	86
352	Citrate inhibition of cisplatin reaction with DNA studied using fluorescently labeled oligonucleotides: implication for selectivity towards guanine. Chemical Communications, 2013, 49, 9482.	2.2	4
353	Effect of microstructure on the antioxidant properties of fullerene polymer solutions. RSC Advances, 2013, 3, 4622.	1.7	13
354	DNA duplex stabilization in crowded polyanion solutions. Chemical Communications, 2013, 49, 1306.	2.2	24
355	Visual optical biosensors based on DNA-functionalized polyacrylamide hydrogels. Methods, 2013, 64, 292-298.	1.9	43
356	Fast assembly of non-thiolated DNA on gold surface at lower pH. Journal of Colloid and Interface Science, 2013, 411, 92-97.	5.0	21
357	Correlation of photobleaching, oxidation and metal induced fluorescence quenching of DNA-templated silver nanoclusters. Nanoscale, 2013, 5, 2840.	2.8	65
358	Extraction of DNA staining dyes from DNA using hydrophobic ionic liquids. Chemical Communications, 2013, 49, 4537.	2.2	26
359	Liposomes for DNA Nanotechnology: Preparation, Properties, and Applications. , 2013, , 57-76.		2
360	Light-Activated Metal-Coordinated Supramolecular Complexes with Charge-Directed Self-Assembly. Journal of Physical Chemistry C, 2013, 117, 3653-3661.	1.5	60

#	Article	IF	Citations
361	Dissecting Colloidal Stabilization Factors in Crowded Polymer Solutions by Forming Self-Assembled Monolayers on Gold Nanoparticles. Langmuir, 2013, 29, 6018-6024.	1.6	29
362	Oxidation Levelâ€Dependent Zwitterionic Liposome Adsorption and Rupture by Grapheneâ€based Materials and Lightâ€Induced Content Release. Small, 2013, 9, 1030-1035.	5.2	44
363	Polarity Control for Nonthiolated DNA Adsorption onto Gold Nanoparticles. Langmuir, 2013, 29, 6091-6098.	1.6	77
364	DNA stabilized silver nanoclusters for ratiometric and visual detection of Hg2+ and its immobilization in hydrogels. Biosensors and Bioelectronics, 2013, 48, 82-86.	5.3	98
365	Orthogonal Adsorption Onto Nanoâ€Graphene Oxide Using Different Intermolecular Forces for Multiplexed Delivery. Advanced Materials, 2013, 25, 4087-4092.	11.1	43
366	Parts-per-Million of Polyethylene Glycol as a Non-Interfering Blocking Agent for Homogeneous Biosensor Development. Analytical Chemistry, 2013, 85, 10045-10050.	3.2	42
367	Rationally Designed Nucleobase and Nucleotide Coordinated Nanoparticles for Selective DNA Adsorption and Detection. Analytical Chemistry, 2013, 85, 12144-12151.	3.2	67
368	Electrostatically directed liposome adsorption, internalization and fusion on hydrogel microparticles. Soft Matter, 2013, 9, 6151.	1.2	21
369	Functional nucleic acids for detecting bacteria. Reviews in Analytical Chemistry, 2013, 32, 77-89.	1.5	12
370	Separation of Short Single- and Double-Stranded DNA Based on Their Adsorption Kinetics Difference on Graphene Oxide. Nanomaterials, 2013, 3, 221-228.	1.9	51
371	DNA-Functionalized Gold Nanoparticles for Metabolite and Nucleic Acid Detection. , 2013, , 121-139.		0
372	DNA-Functionalized Gold Nanoparticles in Macromolecularly Crowded Polymer Solutions. Journal of Physical Chemistry B, 2012, 116, 13396-13402.	1.2	29
373	Immobilization of Fluorescent Aptamer Biosensors on Magnetic Microparticles and Its Potential Application for Ocean Sensing. Springer Protocols, 2012, , 151-168.	0.1	1
374	Instantaneous and Quantitative Functionalization of Gold Nanoparticles with Thiolated DNA Using a pH-Assisted and Surfactant-Free Route. Journal of the American Chemical Society, 2012, 134, 7266-7269.	6.6	477
375	Fast pH-assisted functionalization of silver nanoparticles with monothiolated DNA. Chemical Communications, 2012, 48, 10114.	2.2	88
376	Instantaneous Attachment of an Ultrahigh Density of Nonthiolated DNA to Gold Nanoparticles and Its Applications. Langmuir, 2012, 28, 17053-17060.	1.6	157
377	Amplifying the Macromolecular Crowding Effect Using Nanoparticles. Journal of the American Chemical Society, 2012, 134, 35-38.	6.6	50
378	Biomimetic sensing based on chemically induced assembly of a signaling DNA aptamer on a fluid bilayer membrane. Chemical Communications, 2012, 48, 3718.	2.2	33

#	Article	IF	Citations
379	Hydrogel porosity controlling DNA-directed immobilization of gold nanoparticles revealed by DNA melting and scanning helium ion microscopy. RSC Advances, 2012, 2, 2981.	1.7	5
380	Visual detection oflead(II) using a label-free DNA-based sensor and its immobilization within a monolithic hydrogel. Analyst, The, 2012, 137, 704-709.	1.7	56
381	Exploring the thermal stability of DNA-linked gold nanoparticles in ionic liquids and molecular solvents. Chemical Science, 2012, 3, 3216.	3.7	32
382	Aptamer-Functionalized Hydrogel Microparticles for Fast Visual Detection of Mercury(II) and Adenosine. ACS Applied Materials & Interfaces, 2012, 4, 2228-2233.	4.0	116
383	Adsorption of DNA onto gold nanoparticles and graphene oxide: surface science and applications. Physical Chemistry Chemical Physics, 2012, 14, 10485.	1.3	342
384	Effects of Polyethylene Glycol on DNA Adsorption and Hybridization on Gold Nanoparticles and Graphene Oxide. Langmuir, 2012, 28, 14330-14337.	1.6	44
385	Dissecting the effect of anions on Hg2+ detection using a FRET based DNA probe. Analyst, The, 2012, 137, 3535.	1.7	27
386	Blue emitting gold nanoclusters templated by poly-cytosine DNA at low pH and poly-adenine DNA at neutral pH. Chemical Communications, 2012, 48, 6845.	2.2	199
387	Ultrasensitive Visual Fluorescence Detection of Heavy Metal Ions in Water Based on DNA-Functionalized Hydrogels. Springer Protocols, 2012, , 117-134.	0.1	0
388	DNAâ€Łengthâ€Đependent Fluorescence Signaling on Graphene Oxide Surface. Small, 2012, 8, 977-983.	5.2	131
389	Molecular Beacon Lighting up on Graphene Oxide. Analytical Chemistry, 2012, 84, 4192-4198.	3.2	154
390	Surface Science of DNA Adsorption onto Citrate-Capped Gold Nanoparticles. Langmuir, 2012, 28, 3896-3902.	1.6	260
391	Ultrahigh Nanoparticle Stability against Salt, pH, and Solvent with Retained Surface Accessibility via Depletion Stabilization. Journal of the American Chemical Society, 2012, 134, 9910-9913.	6.6	189
392	Metalâ€Ìnduced Specific and Nonspecific Oligonucleotide Folding Studied by FRET and Related Biophysical and Bioanalytical Implications. Chemistry - A European Journal, 2012, 18, 1202-1208.	1.7	25
393	Oligonucleotide-functionalized hydrogels as stimuli responsive materials and biosensors. Soft Matter, 2011, 7, 6757.	1.2	170
394	Electrostatically Directed Visual Fluorescence Response of DNA-Functionalized Monolithic Hydrogels for Highly Sensitive Hg²⁺ Detection. ACS Applied Materials & Interfaces, 2011, 3, 733-739.	4.0	81
395	Stimuli-responsive releasing of gold nanoparticles and liposomes from aptamer-functionalized hydrogels. Nanotechnology, 2011, 22, 494011.	1.3	36
396	Dissociation and Degradation of Thiol-Modified DNA on Gold Nanoparticles in Aqueous and Organic Solvents. Langmuir, 2011, 27, 6132-6137.	1.6	105

#	Article	IF	Citations
397	Synergistic pH effect for reversible shuttling aptamer-based biosensors between graphene oxide and target molecules. Journal of Materials Chemistry, 2011, 21, 8991.	6.7	57
398	Adsorption and Desorption of DNA on Graphene Oxide Studied by Fluorescently Labeled Oligonucleotides. Langmuir, 2011, 27, 2731-2738.	1.6	491
399	Programmable Assembly of DNA-Functionalized Liposomes by DNA. ACS Nano, 2011, 5, 1304-1312.	7.3	84
400	The targeted delivery of multicomponent cargos to cancer cells by nanoporous particle-supported lipid bilayers. Nature Materials, 2011, 10, 389-397.	13.3	933
401	Assembly of DNA-Functionalized Gold Nanoparticles with Gaps and Overhangs in Linker DNA. Journal of Physical Chemistry C, 2011, 115, 7851-7857.	1.5	32
402	Protection and Promotion of UV Radiationâ€Induced Liposome Leakage via DNAâ€Directed Assembly with Gold Nanoparticles. Advanced Materials, 2011, 23, 3182-3186.	11.1	31
403	Immobilization of DNA on Magnetic Microparticles for Mercury Enrichment and Detection with Flow Cytometry. Chemistry - A European Journal, 2011, 17, 5004-5010.	1.7	31
404	Fast Molecular Beacon Hybridization in Organic Solvents with Improved Target Specificity. Journal of Physical Chemistry B, 2010, 114, 15694-15699.	1.2	45
405	Flow Cytometry-Assisted Detection of Adenosine in Serum with an Immobilized Aptamer Sensor. Analytical Chemistry, 2010, 82, 4020-4026.	3.2	94
406	Assembly of DNA-Functionalized Nanoparticles in Alcoholic Solvents Reveals Opposite Thermodynamic and Kinetic Trends for DNA Hybridization. Journal of the American Chemical Society, 2010, 132, 6300-6301.	6.6	44
407	Easy-to-use dipstick tests for detection of lead in paints using non-cross-linked gold nanoparticleâ€“DNAzyme conjugates. Chemical Communications, 2010, 46, 1416.	2.2	177
408	Regenerable DNA-Functionalized Hydrogels for Ultrasensitive, Instrument-Free Mercury(II) Detection and Removal in Water. Journal of the American Chemical Society, 2010, 132, 12668-12673.	6.6	429
409	Aerosol fabrication of hollow mesoporous silica nanoparticles and encapsulation of l-methionine as a candidate drug cargo. Chemical Communications, 2010, 46, 3019.	2.2	66
410	DNA-Functionalized Monolithic Hydrogels and Gold Nanoparticles for Colorimetric DNA Detection. ACS Applied Materials & Interfaces, 2010, 2, 3594-3600.	4.0	120
411	Salt-induced lipid transfer between colloidal supported lipid bilayers. Soft Matter, 2010, 6, 2628.	1.2	8
412	Functional Nucleic Acid-Directed Assembly of Nanomaterials and Their Applications as Colorimetric and Fluorescent Sensors for Trace Contaminants in Water. , 2009, , 427-446.		1
413	Biochemical Characterization of a Uranyl Ionâ€Specific DNAzyme. ChemBioChem, 2009, 10, 486-492.	1.3	84
414	Catalystâ€functionalized nanomaterials. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2009, 1, 35-46.	3.3	12

#	Article	IF	Citations
415	Cell-Directed Localization and Orientation of a Functional Foreign Transmembrane Protein within a Silica Nanostructure. Journal of the American Chemical Society, 2009, 131, 14255-14257.	6.6	17
416	Colorimetric and Fluorescent Biosensors Based on Directed Assembly of Nanomaterials with Functional DNA. , 2009, , 155-178.		5
417	Functional Nucleic Acid Sensors. Chemical Reviews, 2009, 109, 1948-1998.	23.0	1,988
418	Nanoparticles/Dip Stick. Methods in Molecular Biology, 2009, 535, 223-239.	0.4	2
419	DNAzyme catalytic beacon sensors that resist temperature-dependent variations. Chemical Communications, 2009, , 4103.	2.2	46
420	Silica nanoparticle supported lipid bilayers for gene delivery. Chemical Communications, 2009, , 5100.	2.2	73
421	Electrostatically Mediated Liposome Fusion and Lipid Exchange with a Nanoparticle-Supported Bilayer for Control of Surface Charge, Drug Containment, and Delivery. Journal of the American Chemical Society, 2009, 131, 7567-7569.	6.6	250
422	Porous Nanoparticle Supported Lipid Bilayers (Protocells) as Delivery Vehicles. Journal of the American Chemical Society, 2009, 131, 1354-1355.	6.6	323
423	Highly Sensitive and Selective Colorimetric Sensors for Uranyl (UO₂²⁺): Development and Comparison of Labeled and Label-Free DNAzyme-Gold Nanoparticle Systems. Journal of the American Chemical Society, 2008, 130, 14217-14226.	6.6	441
424	Functional-DNAâ€"Based Nanoscale Materials and Devices for Sensing Trace Contaminants in Water. MRS Bulletin, 2008, 33, 34-41.	1.7	16
425	Non-Base Pairing DNA Provides a New Dimension for Controlling Aptamer-Linked Nanoparticles and Sensors. Journal of the American Chemical Society, 2007, 129, 8634-8643.	6.6	113
426	A DNAzyme Catalytic Beacon Sensor for Paramagnetic Cu²⁺ Ions in Aqueous Solution with High Sensitivity and Selectivity. Journal of the American Chemical Society, 2007, 129, 9838-9839.	6.6	601
427	Metal-Dependent Global Folding and Activity of the 8-17 DNAzyme Studied by Fluorescence Resonance Energy Transfer. Journal of the American Chemical Society, 2007, 129, 6896-6902.	6.6	156
428	Colorimetric Cu2+ detection with a ligation DNAzyme and nanoparticles. Chemical Communications, 2007, , 4872.	2.2	224
429	Smart Nanomaterials Inspired by Biology: Dynamic Assembly of Error-Free Nanomaterials in Response to Multiple Chemical and Biological Stimuli. Accounts of Chemical Research, 2007, 40, 315-323.	7.6	233
430	Quantum Dot Encoding of Aptamer-Linked Nanostructures for One-Pot Simultaneous Detection of Multiple Analytes. Analytical Chemistry, 2007, 79, 4120-4125.	3.2	253
431	Rational Design of â€œTurnâ€Onâ€•Allosteric DNAzyme Catalytic Beacons for Aqueous Mercury Ions with Ultrahigh Sensitivity and Selectivity. Angewandte Chemie - International Edition, 2007, 46, 7587-7590.	7.2	549
432	Siteâ€Specific Control of Distances between Gold Nanoparticles Using Phosphorothioate Anchors on DNA and a Short Bifunctional Molecular Fastener. Angewandte Chemie - International Edition, 2007, 46, 9006-9010.	7.2	102

#	Article	IF	Citations
433	Dissecting metal ionâ€“dependent folding and catalysis of a single DNAzyme. Nature Chemical Biology, 2007, 3, 763-768.	3.9	137
434	A catalytic beacon sensor for uranium with parts-per-trillion sensitivity and millionfold selectivity. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2056-2061.	3.3	474
435	Multi-Fluorophore Fluorescence Resonance Energy Transfer for Probing Nucleic Acids Structure and Folding. , 2006, 335, 257-272.		10
436	Design of asymmetric DNAzymes for dynamic control of nanoparticle aggregation states in response to chemical stimuli. Organic and Biomolecular Chemistry, 2006, 4, 3435.	1.5	43
437	Preparation of aptamer-linked gold nanoparticle purple aggregates for colorimetric sensing of analytes. Nature Protocols, 2006, 1, 246-252.	5.5	1,002
438	Functional DNA nanotechnology: emerging applications of DNAzymes and aptamers. Current Opinion in Biotechnology, 2006, 17, 580-588.	3.3	283
439	Fast Colorimetric Sensing of Adenosine and Cocaine Based on a General Sensor Design Involving Aptamers and Nanoparticles. Angewandte Chemie - International Edition, 2006, 45, 90-94.	7.2	865
440	A Simple and Sensitive â€œDipstickâ€•Test in Serum Based on Lateral Flow Separation of Aptamer-Linked Nanostructures. Angewandte Chemie - International Edition, 2006, 45, 7955-7959.	7.2	313
441	Smart Nanomaterials Responsive to Multiple Chemical Stimuli with Controllable Cooperativity. Advanced Materials, 2006, 18, 1667-1671.	11.1	171
442	Fluorescent DNAzyme Biosensors for Metal Ions Based on Catalytic Molecular Beacons. , 2006, 335, 275-288.		32
443	Proofreading and Error Removal in a Nanomaterial Assembly. Angewandte Chemie - International Edition, 2005, 44, 7290-7293.	7.2	28
444	A modular microfluidic architecture for integrated biochemical analysis. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9745-9750.	3.3	177
445	Stimuli-Responsive Disassembly of Nanoparticle Aggregates for Light-Up Colorimetric Sensing. Journal of the American Chemical Society, 2005, 127, 12677-12683.	6.6	292
446	Miniaturized Lead Sensor Based on Lead-Specific DNAzyme in a Nanocapillary Interconnected Microfluidic Device. Environmental Science & Technology, 2005, 39, 3756-3761.	4.6	123
447	Highly Active and Stable DNAzymeâ˜†Carbon Nanotube Hybrids. Journal of the American Chemical Society, 2005, 127, 12200-12201.	6.6	108
448	Colorimetric Biosensors Based on DNAzyme-Assembled Gold Nanoparticles. Journal of Fluorescence, 2004, 14, 343-354.	1.3	160
449	Optimization of a Pb2+-Directed Gold Nanoparticle/DNAzyme Assembly and Its Application as a Colorimetric Biosensor for Pb2+. Chemistry of Materials, 2004, 16, 3231-3238.	3.2	137
450	Accelerated Color Change of Gold Nanoparticles Assembled by DNAzymes for Simple and Fast Colorimetric Pb2+Detection. Journal of the American Chemical Society, 2004, 126, 12298-12305.	6.6	617

#	Article	IF	Citations
451	Adenosine-Dependent Assembly of Aptazyme-Functionalized Gold Nanoparticles and Its Application as a Colorimetric Biosensor. Analytical Chemistry, 2004, 76, 1627-1632.	3.2	337
452	New highly sensitive and selective catalytic DNA biosensors for metal ions. Biosensors and Bioelectronics, 2003, 18, 529-540.	5.3	128
453	A Colorimetric Lead Biosensor Using DNAzyme-Directed Assembly of Gold Nanoparticles. Journal of the American Chemical Society, 2003, 125, 6642-6643.	6.6	1,287
454	Improving Fluorescent DNAzyme Biosensors by Combining Inter- and Intramolecular Quenchers. Analytical Chemistry, 2003, 75, 6666-6672.	3.2	187
455	FRET Study of a Trifluorophore-Labeled DNAzyme. Journal of the American Chemical Society, 2002, 124, 15208-15216.	6.6	138
456	A Simple Synthesis of Nanocrystalline Binary Metal Chalcogenides in Alkaline Aqueous Solution. Journal of Solid State Chemistry, 2001, 161, 184-189.	1.4	11
457	Room temperature growth of nanocrystalline tin (II) selenide from aqueous solution. Journal of Crystal Growth, 2000, 217, 157-160.	0.7	40
458	A hydrothermal synthesis of orthorhombic nanocrystalline cobalt diselenide CoSe2. Materials Research Bulletin, 2000, 35, 2403-2408.	2.7	48
459	A Redox Reaction To Synthesize Nanocrystalline Cu2-xSe in Aqueous Solution. Inorganic Chemistry, 2000, 39, 1838-1839.	1.9	47
460	Thioflavin T fluorescence and NMR spectroscopy suggesting a non-G-quadruplex structure for a sodium binding aptamer embedded in DNAzymes. Canadian Journal of Chemistry, 0, , 1-7.	0.6	1
461	A Polymeric Nanobeacon for Monitoring the Fluctuation of Hydrogen Polysulfides During Fertilization and Embryonic Development. Angewandte Chemie, 0, , .	1.6	0
462	Selection of DNA Aptamers for Sensing Uric Acid in Simulated Tears. Analysis & Sensing, 0, , .	1.1	1