

Juewen Liu, å^~çæ-

List of Publications by Year in descending order

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462
papers

38,085
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2962

96
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478
all docs

478
docs citations

478
times ranked

27461
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional Nucleic Acid Sensors. <i>Chemical Reviews</i> , 2009, 109, 1948-1998.	23.0	1,988
2	A Colorimetric Lead Biosensor Using DNAzyme-Directed Assembly of Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2003, 125, 6642-6643.	6.6	1,287
3	Preparation of aptamer-linked gold nanoparticle purple aggregates for colorimetric sensing of analytes. <i>Nature Protocols</i> , 2006, 1, 246-252.	5.5	1,002
4	The targeted delivery of multicomponent cargos to cancer cells by nanoporous particle-supported lipid bilayers. <i>Nature Materials</i> , 2011, 10, 389-397.	13.3	933
5	Fast Colorimetric Sensing of Adenosine and Cocaine Based on a General Sensor Design Involving Aptamers and Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 90-94.	7.2	865
6	Metal Sensing by DNA. <i>Chemical Reviews</i> , 2017, 117, 8272-8325.	23.0	713
7	Accelerated Color Change of Gold Nanoparticles Assembled by DNAzymes for Simple and Fast Colorimetric Pb ²⁺ Detection. <i>Journal of the American Chemical Society</i> , 2004, 126, 12298-12305.	6.6	617
8	A DNAzyme Catalytic Beacon Sensor for Paramagnetic Cu ²⁺ Ions in Aqueous Solution with High Sensitivity and Selectivity. <i>Journal of the American Chemical Society</i> , 2007, 129, 9838-9839.	6.6	601
9	Rational Design of Allosteric DNAzyme Catalytic Beacons for Aqueous Mercury Ions with Ultrahigh Sensitivity and Selectivity. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7587-7590.	7.2	549
10	Molecular Imprinting on Inorganic Nanozymes for Hundred-fold Enzyme Specificity. <i>Journal of the American Chemical Society</i> , 2017, 139, 5412-5419.	6.6	522
11	Adsorption and Desorption of DNA on Graphene Oxide Studied by Fluorescently Labeled Oligonucleotides. <i>Langmuir</i> , 2011, 27, 2731-2738.	1.6	491
12	Instantaneous and Quantitative Functionalization of Gold Nanoparticles with Thiolated DNA Using a pH-Assisted and Surfactant-Free Route. <i>Journal of the American Chemical Society</i> , 2012, 134, 7266-7269.	6.6	477
13	A catalytic beacon sensor for uranium with parts-per-trillion sensitivity and millionfold selectivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 2056-2061.	3.3	474
14	Highly Sensitive and Selective Colorimetric Sensors for Uranyl (UO ₂ ²⁺): Development and Comparison of Labeled and Label-Free DNAzyme-Gold Nanoparticle Systems. <i>Journal of the American Chemical Society</i> , 2008, 130, 14217-14226.	6.6	441
15	Aptamer-based biosensors for biomedical diagnostics. <i>Analyst</i> , 2014, 139, 2627.	1.7	435
16	Regenerable DNA-Functionalized Hydrogels for Ultrasensitive, Instrument-Free Mercury(II) Detection and Removal in Water. <i>Journal of the American Chemical Society</i> , 2010, 132, 12668-12673.	6.6	429
17	Surface modification of nanozymes. <i>Nano Research</i> , 2017, 10, 1125-1148.	5.8	406
18	Regenerable and stable sp ² carbon-conjugated covalent organic frameworks for selective detection and extraction of uranium. <i>Nature Communications</i> , 2020, 11, 436.	5.8	383

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19	Hydrogen Peroxide Displacing DNA from Nanoceria: Mechanism and Detection of Glucose in Serum. <i>Journal of the American Chemical Society</i> , 2015, 137, 1290-1295.	6.6	370
20	Adsorption of DNA onto gold nanoparticles and graphene oxide: surface science and applications. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 10485.	1.3	342
21	Adenosine-Dependent Assembly of Aptazyme-Functionalized Gold Nanoparticles and Its Application as a Colorimetric Biosensor. <i>Analytical Chemistry</i> , 2004, 76, 1627-1632.	3.2	337
22	Nanozymes: A clear definition with fuzzy edges. <i>Nano Today</i> , 2021, 40, 101269.	6.2	332
23	Porous Nanoparticle Supported Lipid Bilayers (Protocells) as Delivery Vehicles. <i>Journal of the American Chemical Society</i> , 2009, 131, 1354-1355.	6.6	323
24	Multicopper Laccase Mimicking Nanozymes with Nucleotides as Ligands. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 1352-1360.	4.0	319
25	A Simple and Sensitive “Dipstick” Test in Serum Based on Lateral Flow Separation of Aptamer-Linked Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7955-7959.	7.2	313
26	Freezing Directed Construction of Bio/Nano Interfaces: Reagentless Conjugation, Denser Spherical Nucleic Acids, and Better Nanoflakes. <i>Journal of the American Chemical Society</i> , 2017, 139, 9471-9474.	6.6	303
27	Stimuli-Responsive Disassembly of Nanoparticle Aggregates for Light-Up Colorimetric Sensing. <i>Journal of the American Chemical Society</i> , 2005, 127, 12677-12683.	6.6	292
28	Filling in the Gaps between Nanozymes and Enzymes: Challenges and Opportunities. <i>Bioconjugate Chemistry</i> , 2017, 28, 2903-2909.	1.8	290
29	Functional DNA nanotechnology: emerging applications of DNAzymes and aptamers. <i>Current Opinion in Biotechnology</i> , 2006, 17, 580-588.	3.3	283
30	Surface Science of DNA Adsorption onto Citrate-Capped Gold Nanoparticles. <i>Langmuir</i> , 2012, 28, 3896-3902.	1.6	260
31	Quantum Dot Encoding of Aptamer-Linked Nanostructures for One-Pot Simultaneous Detection of Multiple Analytes. <i>Analytical Chemistry</i> , 2007, 79, 4120-4125.	3.2	253
32	Electrostatically Mediated Liposome Fusion and Lipid Exchange with a Nanoparticle-Supported Bilayer for Control of Surface Charge, Drug Containment, and Delivery. <i>Journal of the American Chemical Society</i> , 2009, 131, 7567-7569.	6.6	250
33	Nanozyme for tumor therapy: Surface modification matters. <i>Exploration</i> , 2021, 1, 75-89.	5.4	250
34	Smart Nanomaterials Inspired by Biology: Dynamic Assembly of Error-Free Nanomaterials in Response to Multiple Chemical and Biological Stimuli. <i>Accounts of Chemical Research</i> , 2007, 40, 315-323.	7.6	233
35	Colorimetric Cu ²⁺ detection with a ligation DNAzyme and nanoparticles. <i>Chemical Communications</i> , 2007, , 4872.	2.2	224
36	DNA adsorbed on graphene and graphene oxide: Fundamental interactions, desorption and applications. <i>Current Opinion in Colloid and Interface Science</i> , 2016, 26, 41-49.	3.4	224

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37	Boosting the oxidase mimicking activity of nanoceria by fluoride capping: rivaling protein enzymes and ultrasensitive F ⁻ detection. <i>Nanoscale</i> , 2016, 8, 13562-13567.	2.8	209
38	Mechanisms of DNA Sensing on Graphene Oxide. <i>Analytical Chemistry</i> , 2013, 85, 7987-7993.	3.2	201
39	Blue emitting gold nanoclusters templated by poly-cytosine DNA at low pH and poly-adenine DNA at neutral pH. <i>Chemical Communications</i> , 2012, 48, 6845.	2.2	199
40	Phosphorescent Carbon Dots for Highly Efficient Oxygen Photosensitization and as Photo-oxidative Nanozymes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 40808-40814.	4.0	192
41	Theranostic DNAzymes. <i>Theranostics</i> , 2017, 7, 1010-1025.	4.6	190
42	Ultrahigh Nanoparticle Stability against Salt, pH, and Solvent with Retained Surface Accessibility via Depletion Stabilization. <i>Journal of the American Chemical Society</i> , 2012, 134, 9910-9913.	6.6	189
43	Improving Fluorescent DNAzyme Biosensors by Combining Inter- and Intramolecular Quenchers. <i>Analytical Chemistry</i> , 2003, 75, 6666-6672.	3.2	187
44	Accelerating peroxidase mimicking nanozymes using DNA. <i>Nanoscale</i> , 2015, 7, 13831-13835.	2.8	186
45	Attaching DNA to Nanoceria: Regulating Oxidase Activity and Fluorescence Quenching. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6820-6825.	4.0	183
46	DNA-stabilized, fluorescent, metal nanoclusters for biosensor development. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 58, 99-111.	5.8	181
47	Comparison of MoS ₂ , WS ₂ , and Graphene Oxide for DNA Adsorption and Sensing. <i>Langmuir</i> , 2017, 33, 630-637.	1.6	179
48	A modular microfluidic architecture for integrated biochemical analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 9745-9750.	3.3	177
49	Easy-to-use dipstick tests for detection of lead in paints using non-cross-linked gold nanoparticle-DNAzyme conjugates. <i>Chemical Communications</i> , 2010, 46, 1416.	2.2	177
50	Methods for preparing DNA-functionalized gold nanoparticles, a key reagent of bioanalytical chemistry. <i>Analytical Methods</i> , 2017, 9, 2633-2643.	1.3	173
51	Smart Nanomaterials Responsive to Multiple Chemical Stimuli with Controllable Cooperativity. <i>Advanced Materials</i> , 2006, 18, 1667-1671.	11.1	171
52	Oligonucleotide-functionalized hydrogels as stimuli responsive materials and biosensors. <i>Soft Matter</i> , 2011, 7, 6757.	1.2	170
53	A Silver DNAzyme. <i>Analytical Chemistry</i> , 2016, 88, 4014-4020.	3.2	163
54	Manganese as a Catalytic Mediator for Photo-oxidation and Breaking the pH Limitation of Nanozymes. <i>Nano Letters</i> , 2019, 19, 3214-3220.	4.5	161

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55	Colorimetric Biosensors Based on DNAzyme-Assembled Gold Nanoparticles. <i>Journal of Fluorescence</i> , 2004, 14, 343-354.	1.3	160
56	Intracellular Detection of ATP Using an Aptamer Beacon Covalently Linked to Graphene Oxide Resisting Nonspecific Probe Displacement. <i>Analytical Chemistry</i> , 2014, 86, 12229-12235.	3.2	160
57	Instantaneous Attachment of an Ultrahigh Density of Nonthiolated DNA to Gold Nanoparticles and Its Applications. <i>Langmuir</i> , 2012, 28, 17053-17060.	1.6	157
58	Metal-Dependent Global Folding and Activity of the 8-17 DNAzyme Studied by Fluorescence Resonance Energy Transfer. <i>Journal of the American Chemical Society</i> , 2007, 129, 6896-6902.	6.6	156
59	Molecular Beacon Lighting up on Graphene Oxide. <i>Analytical Chemistry</i> , 2012, 84, 4192-4198.	3.2	154
60	Interface-Driven Hybrid Materials Based on DNA-Functionalized Gold Nanoparticles. <i>Matter</i> , 2019, 1, 825-847.	5.0	147
61	Dual Enhancement of Gold Nanocluster Electrochemiluminescence: Electrocatalytic Excitation and Aggregation-Induced Emission. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9982-9985.	7.2	143
62	Co-immobilization of multiple enzymes by metal coordinated nucleotide hydrogel nanofibers: improved stability and an enzyme cascade for glucose detection. <i>Nanoscale</i> , 2016, 8, 6071-6078.	2.8	141
63	Biosensors and sensors for dopamine detection. <i>View</i> , 2021, 2, 20200102.	2.7	141
64	FRET Study of a Trifluorophore-Labeled DNAzyme. <i>Journal of the American Chemical Society</i> , 2002, 124, 15208-15216.	6.6	138
65	Optimization of a Pb ²⁺ -Directed Gold Nanoparticle/DNAzyme Assembly and Its Application as a Colorimetric Biosensor for Pb ²⁺ . <i>Chemistry of Materials</i> , 2004, 16, 3231-3238.	3.2	137
66	Dissecting metal ion-dependent folding and catalysis of a single DNAzyme. <i>Nature Chemical Biology</i> , 2007, 3, 763-768.	3.9	137
67	Rational evolution of Cd ²⁺ -specific DNAzymes with phosphorothioate modified cleavage junction and Cd ²⁺ sensing. <i>Nucleic Acids Research</i> , 2015, 43, 6125-6133.	6.5	136
68	Ultrasensitive DNAzyme Beacon for Lanthanides and Metal Speciation. <i>Analytical Chemistry</i> , 2014, 86, 1816-1821.	3.2	133
69	DNA adsorption by magnetic iron oxide nanoparticles and its application for arsenate detection. <i>Chemical Communications</i> , 2014, 50, 8568.	2.2	132
70	Poly-cytosine DNA as a High-Affinity Ligand for Inorganic Nanomaterials. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6208-6212.	7.2	132
71	DNA-Length-Dependent Fluorescence Signaling on Graphene Oxide Surface. <i>Small</i> , 2012, 8, 977-983.	5.2	131
72	New insights into a classic aptamer: binding sites, cooperativity and more sensitive adenosine detection. <i>Nucleic Acids Research</i> , 2017, 45, 7593-7601.	6.5	131

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73	New highly sensitive and selective catalytic DNA biosensors for metal ions. <i>Biosensors and Bioelectronics</i> , 2003, 18, 529-540.	5.3	128
74	Pre-oxidation of Gold Nanoclusters Results in a 66% Anodic Electrochemiluminescence Yield and Drives Mechanistic Insights. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11691-11694.	7.2	128
75	Targeted liposomal drug delivery: a nanoscience and biophysical perspective. <i>Nanoscale Horizons</i> , 2021, 6, 78-94.	4.1	124
76	Miniaturized Lead Sensor Based on Lead-Specific DNAzyme in a Nanocapillary Interconnected Microfluidic Device. <i>Environmental Science & Technology</i> , 2005, 39, 3756-3761.	4.6	123
77	Comparison of Graphene Oxide and Reduced Graphene Oxide for DNA Adsorption and Sensing. <i>Langmuir</i> , 2016, 32, 10776-10783.	1.6	123
78	DNA-Functionalized Monolithic Hydrogels and Gold Nanoparticles for Colorimetric DNA Detection. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 3594-3600.	4.0	120
79	Fluorescent sensors using DNA-functionalized graphene oxide. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 6885-6902.	1.9	119
80	Catalytic Nucleic Acids: Biochemistry, Chemical Biology, Biosensors, and Nanotechnology. <i>IScience</i> , 2020, 23, 100815.	1.9	117
81	Aptamer-Functionalized Hydrogel Microparticles for Fast Visual Detection of Mercury(II) and Adenosine. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 2228-2233.	4.0	116
82	Comprehensive Screen of Metal Oxide Nanoparticles for DNA Adsorption, Fluorescence Quenching, and Anion Discrimination. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24833-24838.	4.0	116
83	Non-Base Pairing DNA Provides a New Dimension for Controlling Aptamer-Linked Nanoparticles and Sensors. <i>Journal of the American Chemical Society</i> , 2007, 129, 8634-8643.	6.6	113
84	Conjugation of antibodies and aptamers on nanozymes for developing biosensors. <i>Biosensors and Bioelectronics</i> , 2020, 168, 112537.	5.3	113
85	Light-activated nanozymes: catalytic mechanisms and applications. <i>Nanoscale</i> , 2020, 12, 2914-2923.	2.8	112
86	Dopamine and Melamine Binding to Gold Nanoparticles Dominates Their Aptamer-Based Label-Free Colorimetric Sensing. <i>Analytical Chemistry</i> , 2020, 92, 9370-9378.	3.2	111
87	Highly Active and Stable DNAzyme-Carbon Nanotube Hybrids. <i>Journal of the American Chemical Society</i> , 2005, 127, 12200-12201.	6.6	108
88	Regenerable Carbohydrazide-Linked Fluorescent Covalent Organic Frameworks for Ultrasensitive Detection and Removal of Mercury. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 445-451.	3.2	108
89	Bioorthogonal DNA Adsorption on Polydopamine Nanoparticles Mediated by Metal Coordination for Highly Robust Sensing in Serum and Living Cells. <i>ACS Nano</i> , 2018, 12, 9070-9080.	7.3	107
90	Dissociation and Degradation of Thiol-Modified DNA on Gold Nanoparticles in Aqueous and Organic Solvents. <i>Langmuir</i> , 2011, 27, 6132-6137.	1.6	105

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91	Iron oxide nanozyme catalyzed synthesis of fluorescent polydopamine for light-up Zn ²⁺ detection. <i>Nanoscale</i> , 2016, 8, 13620-13626.	2.8	103
92	Site-specific Control of Distances between Gold Nanoparticles Using Phosphorothioate Anchors on DNA and a Short Bifunctional Molecular Fastener. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 9006-9010.	7.2	102
93	Sensing Parts-per-Trillion Cd ²⁺ , Hg ²⁺ , and Pb ²⁺ Collectively and Individually Using Phosphorothioate DNAzymes. <i>Analytical Chemistry</i> , 2014, 86, 5999-6005.	3.2	102
94	Self-healing metal-coordinated hydrogels using nucleotide ligands. <i>Chemical Communications</i> , 2015, 51, 15196-15199.	2.2	101
95	DNA stabilized silver nanoclusters for ratiometric and visual detection of Hg ²⁺ and its immobilization in hydrogels. <i>Biosensors and Bioelectronics</i> , 2013, 48, 82-86.	5.3	98
96	A Glucose-Powered Activatable Nanozyme Breaking pH and H ₂ O ₂ Limitations for Treating Diabetic Infections. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23534-23539.	7.2	96
97	Flow Cytometry-Assisted Detection of Adenosine in Serum with an Immobilized Aptamer Sensor. <i>Analytical Chemistry</i> , 2010, 82, 4020-4026.	3.2	94
98	Adsorption of DNA Oligonucleotides by Titanium Dioxide Nanoparticles. <i>Langmuir</i> , 2014, 30, 839-845.	1.6	94
99	An Ultrasensitive Light-up Cu ²⁺ Biosensor Using a New DNAzyme Cleaving a Phosphorothioate-Modified Substrate. <i>Analytical Chemistry</i> , 2016, 88, 3341-3347.	3.2	94
100	Bromide as a Robust Backfiller on Gold for Precise Control of DNA Conformation and High Stability of Spherical Nucleic Acids. <i>Journal of the American Chemical Society</i> , 2018, 140, 4499-4502.	6.6	91
101	Nanozyme Catalytic Turnover and Self-Limited Reactions. <i>ACS Nano</i> , 2021, 15, 15645-15655.	7.3	91
102	Fast pH-assisted functionalization of silver nanoparticles with monothiolated DNA. <i>Chemical Communications</i> , 2012, 48, 10114.	2.2	88
103	Interfacing Zwitterionic Liposomes with Inorganic Nanomaterials: Surface Forces, Membrane Integrity, and Applications. <i>Langmuir</i> , 2016, 32, 4393-4404.	1.6	88
104	Janus DNA orthogonal adsorption of graphene oxide and metal oxide nanoparticles enabling stable sensing in serum. <i>Materials Horizons</i> , 2018, 5, 65-69.	6.4	88
105	Nucleic Acids Analysis. <i>Science China Chemistry</i> , 2021, 64, 171-203.	4.2	88
106	Mesoporous silica-supported lipid bilayers (protocells) for DNA cargo delivery to the spinal cord. <i>Journal of Controlled Release</i> , 2013, 168, 209-224.	4.8	86
107	Biochemical Characterization of a Uranyl Ion-specific DNAzyme. <i>ChemBioChem</i> , 2009, 10, 486-492.	1.3	84
108	Programmable Assembly of DNA-Functionalized Liposomes by DNA. <i>ACS Nano</i> , 2011, 5, 1304-1312.	7.3	84

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109	Characterization of glucose oxidation by gold nanoparticles using nanoceria. <i>Journal of Colloid and Interface Science</i> , 2014, 428, 78-83.	5.0	84
110	In Vitro Selection of a New Lanthanide-Dependent DNAzyme for Ratiometric Sensing Lanthanides. <i>Analytical Chemistry</i> , 2014, 86, 9993-9999.	3.2	82
111	Electrostatically Directed Visual Fluorescence Response of DNA-Functionalized Monolithic Hydrogels for Highly Sensitive Hg ²⁺ Detection. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 733-739.	4.0	81
112	A DNAzyme requiring two different metal ions at two distinct sites. <i>Nucleic Acids Research</i> , 2016, 44, 354-363.	6.5	80
113	Highly active fluorogenic oxidase-mimicking NiO nanozymes. <i>Chemical Communications</i> , 2018, 54, 12519-12522.	2.2	80
114	Lanthanide-Boosted Singlet Oxygen from Diverse Photosensitizers along with Potent Photocatalytic Oxidation. <i>ACS Nano</i> , 2019, 13, 14152-14161.	7.3	80
115	The Arsenic-Binding Aptamer Cannot Bind Arsenic: Critical Evaluation of Aptamer Selection and Binding. <i>Analytical Chemistry</i> , 2019, 91, 10887-10893.	3.2	79
116	Pt-S Bond-Mediated Nanoflares for High-Fidelity Intracellular Applications by Avoiding Thiol Cleavage. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14044-14048.	7.2	79
117	Sensors and biosensors based on metal oxide nanomaterials. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 121, 115690.	5.8	78
118	Polarity Control for Nonthiolated DNA Adsorption onto Gold Nanoparticles. <i>Langmuir</i> , 2013, 29, 6091-6098.	1.6	77
119	Fluoride-capped nanoceria as a highly efficient oxidase-mimicking nanozyme: inhibiting product adsorption and increasing oxygen vacancies. <i>Nanoscale</i> , 2019, 11, 17841-17850.	2.8	77
120	A new heavy lanthanide-dependent DNAzyme displaying strong metal cooperativity and unrescuable phosphorothioate effect. <i>Nucleic Acids Research</i> , 2015, 43, 461-469.	6.5	75
121	2-Aminopurine-modified DNA homopolymers for robust and sensitive detection of mercury and silver. <i>Biosensors and Bioelectronics</i> , 2017, 87, 171-177.	5.3	75
122	Gold Nanoparticles Adsorb DNA and Aptamer Probes Too Strongly and a Comparison with Graphene Oxide for Biosensing. <i>Analytical Chemistry</i> , 2019, 91, 14743-14750.	3.2	75
123	Efficient DNA-Catalyzed Porphyrin Metalation for Fluorescent Ratiometric Pb ²⁺ Detection. <i>Analytical Chemistry</i> , 2019, 91, 11403-11408.	3.2	74
124	Nanozyme's catching up: activity, specificity, reaction conditions and reaction types. <i>Materials Horizons</i> , 2021, 8, 336-350.	6.4	74
125	Silica nanoparticle supported lipid bilayers for gene delivery. <i>Chemical Communications</i> , 2009, , 5100.	2.2	73
126	A New Na ⁺ -Dependent RNA-Cleaving DNAzyme with over 1000-fold Rate Acceleration by Ethanol. <i>ChemBioChem</i> , 2016, 17, 159-163.	1.3	70

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127	Molecularly imprinted nanozymes with faster catalytic activity and better specificity. <i>Nanoscale</i> , 2019, 11, 4854-4863.	2.8	69
128	Rationally Designed Nucleobase and Nucleotide Coordinated Nanoparticles for Selective DNA Adsorption and Detection. <i>Analytical Chemistry</i> , 2013, 85, 12144-12151.	3.2	67
129	Cleavable Molecular Beacon for Hg ²⁺ Detection Based on Phosphorothioate RNA Modifications. <i>Analytical Chemistry</i> , 2015, 87, 6890-6895.	3.2	67
130	Aerosol fabrication of hollow mesoporous silica nanoparticles and encapsulation of l-methionine as a candidate drug cargo. <i>Chemical Communications</i> , 2010, 46, 3019.	2.2	66
131	In Vitro Selection in Serum: RNA-Cleaving DNAzymes for Measuring Ca ²⁺ and Mg ²⁺ . <i>ACS Sensors</i> , 2016, 1, 600-606.	4.0	66
132	Correlation of photobleaching, oxidation and metal induced fluorescence quenching of DNA-templated silver nanoclusters. <i>Nanoscale</i> , 2013, 5, 2840.	2.8	65
133	Liposome Supported Metal Oxide Nanoparticles: Interaction Mechanism, Light Controlled Content Release, and Intracellular Delivery. <i>Small</i> , 2014, 10, 3927-3931.	5.2	63
134	DNA Adsorption by ZnO Nanoparticles near Its Solubility Limit: Implications for DNA Fluorescence Quenching and DNAzyme Activity Assays. <i>Langmuir</i> , 2016, 32, 5672-5680.	1.6	63
135	Parallel Polyadenine Duplex Formation at Low pH Facilitates DNA Conjugation onto Gold Nanoparticles. <i>Langmuir</i> , 2016, 32, 11986-11992.	1.6	63
136	Molecularly Imprinted Polymers with DNA Aptamer Fragments as Macromonomers. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6371-6378.	4.0	63
137	An Exceptionally Selective DNA Cooperatively Binding Two Ca ²⁺ Ions. <i>ChemBioChem</i> , 2017, 18, 518-522.	1.3	63
138	Critical evaluation of aptamer binding for biosensor designs. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 146, 116480.	5.8	63
139	A Stable Lipid/TiO ₂ Interface with Headgroup-Inversed Phosphocholine and a Comparison with SiO ₂ . <i>Journal of the American Chemical Society</i> , 2015, 137, 11736-11742.	6.6	61
140	G-Quadruplex DNA for Fluorescent and Colorimetric Detection of Thallium(I). <i>ACS Sensors</i> , 2016, 1, 137-143.	4.0	61
141	Nanoceria as a DNase I mimicking nanozyme. <i>Chemical Communications</i> , 2019, 55, 13215-13218.	2.2	61
142	DNA Triplex and Quadruplex Assembled Nanosensors for Correlating K ⁺ and pH in Lysosomes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5453-5458.	7.2	61
143	Light-Activated Metal-Coordinated Supramolecular Complexes with Charge-Directed Self-Assembly. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3653-3661.	1.5	60
144	Tandem Phosphorothioate Modifications for DNA Adsorption Strength and Polarity Control on Gold Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 14795-14800.	4.0	60

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145	G-quadruplex DNA for construction of biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 132, 116060.	5.8	60
146	Molecular Imprinting for Substrate Selectivity and Enhanced Activity of Enzyme Mimics. <i>Small</i> , 2017, 13, 1602730.	5.2	59
147	Freezing-Driven DNA Adsorption on Gold Nanoparticles: Tolerating Extremely Low Salt Concentration but Requiring High DNA Concentration. <i>Langmuir</i> , 2019, 35, 6476-6482.	1.6	59
148	Sensing Adenosine and ATP by Aptamers and Gold Nanoparticles: Opposite Trends of Color Change from Domination of Target Adsorption Instead of Aptamer Binding. <i>ACS Sensors</i> , 2020, 5, 2885-2893.	4.0	59
149	DNA-encoded bimetallic Au-Pt dumbbell nanozyme for high-performance detection and eradication of <i>Escherichia coli</i> O157:H7. <i>Biosensors and Bioelectronics</i> , 2021, 187, 113327.	5.3	59
150	Covalent and Noncovalent Functionalization of Graphene Oxide with DNA for Smart Sensing. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000123.	3.3	58
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