

Yan Du

List of Publications by Year in Descending Order

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

207
papers

19,743
citations

73
h-index

137
g-index

218
ext. papers

21,745
ext. citations

8.6
avg, IF

7.4
L-index

#	Paper	IF	Citations
207	CLIPON: A CRISPR-Enabled Strategy that Turns Commercial Pregnancy Test Strips into General Point-of-Need Test Devices.. <i>Angewandte Chemie - International Edition</i> , 2022 , e202115907	16.4	1
206	Data-informed discovery of hydrolytic nanozymes.. <i>Nature Communications</i> , 2022 , 13, 827	17.4	9
205	Recent advancements in coralyne (COR)-based biosensors: Basic principles, various strategies and future perspectives.. <i>Biosensors and Bioelectronics</i> , 2022 , 210, 114343	11.8	1
204	Structurally Engineered Light-Responsive Nanozymes for Enhanced Substrate Specificity. <i>Analytical Chemistry</i> , 2021 , 93, 15150-15158	7.8	5
203	A naked-eye readout self-powered electrochemical biosensor toward indoor formaldehyde: On-site detection and exposure risk warning. <i>Biosensors and Bioelectronics</i> , 2021 , 177, 112975	11.8	5
202	Interfacial Electron Engineering of Palladium and Molybdenum Carbide for Highly Efficient Oxygen Reduction. <i>Journal of the American Chemical Society</i> , 2021 , 143, 6933-6941	16.4	21
201	A mediator-free self-powered glucose biosensor based on a hybrid glucose/MnO ₂ enzymatic biofuel cell. <i>Nano Research</i> , 2021 , 14, 707-714	10	6
200	Low-Noise Solid-State Nanopore Enhancing Direct Label-Free Analysis for Small Dimensional Assemblies Induced by Specific Molecular Binding. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 9482-9490	9.5	5
199	In vitro measurement of superoxide dismutase-like nanozyme activity: a comparative study. <i>Analyst, The</i> , 2021 , 146, 1872-1879	5	11
198	Deep eutectic solvent assisted zero-waste electrospinning of lignin fiber aerogels. <i>Green Chemistry</i> , 2021 , 23, 6065-6075	10	3
197	SARS-CoV-2 Point-of-Care (POC) Diagnosis Based on Commercial Pregnancy Test Strips and a Palm-Size Microfluidic Device. <i>Analytical Chemistry</i> , 2021 , 93, 11956-11964	7.8	5
196	A DNA Nanoflower-Assisted Separation-Free Nucleic Acid Detection Platform with a Commercial Pregnancy Test Strip. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 24823-24827	16.4	6
195	Nanozymes: A clear definition with fuzzy edges. <i>Nano Today</i> , 2021 , 40, 101269	17.9	97
194	Study on simplified strategies for procedure of rapid detection of water toxicity. <i>Talanta</i> , 2021 , 235, 122787	6.2	0
193	DNA Computing: Versatile Logic Circuits and Innovative Bio-applications 2021 , 231-246		1
192	Propelling DNA Computing with Materials' Power: Recent Advancements in Innovative DNA Logic Computing Systems and Smart Bio-Applications. <i>Advanced Science</i> , 2020 , 7, 2001766	13.6	31
191	Enhanced Stability of Enzyme Immobilized in Rationally Designed Amphiphilic Aerogel and Its Application for Sensitive Glucose Detection. <i>Analytical Chemistry</i> , 2020 , 92, 5319-5328	7.8	22

190	One-tube smart genetic testing via coupling isothermal amplification and three-way nucleic acid circuit to glucometers. <i>Analytica Chimica Acta</i> , 2020 , 1106, 191-198	6.6	5
189	Recent development of biofuel cell based self-powered biosensors. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 3393-3407	7.3	32
188	Real-time gene analysis based on a portable electrochemical microfluidic system. <i>Electrochemistry Communications</i> , 2020 , 111, 106665	5.1	3
187	Improved sensitivity for ratiometric fluorescence detection of ricin based on kinetic competition aptasensing strategy. <i>Sensors and Actuators B: Chemical</i> , 2020 , 314, 128073	8.5	5
186	Oligonucleotide-functionalized hydrogels for sustained release of small molecule (aptamer) therapeutics. <i>Acta Biomaterialia</i> , 2020 , 102, 315-325	10.8	12
185	Synthesis of low dimensional hierarchical transition metal oxides a direct deep eutectic solvent calcining method for enhanced oxygen evolution catalysis. <i>Nanoscale</i> , 2020 , 12, 20719-20725	7.7	9
184	Integrated cascade nanozyme catalyzes in vivo ROS scavenging for anti-inflammatory therapy. <i>Science Advances</i> , 2020 , 6, eabb2695	14.3	97
183	Oxidase-like MOF-818 Nanozyme with High Specificity for Catalysis of Catechol Oxidation. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15569-15574	16.4	89
182	An Orally Administered CeO ₂ @Montmorillonite Nanozyme Targets Inflammation for Inflammatory Bowel Disease Therapy. <i>Advanced Functional Materials</i> , 2020 , 30, 2004692	15.6	52
181	Visual detection of the toxicity of wastewater containing heavy metal ions using a microbial fuel cell biosensor with a Prussian blue cathode. <i>Sensors and Actuators B: Chemical</i> , 2020 , 302, 127177	8.5	14
180	Point-of-care assay for drunken driving with Pd@Pt core-shell nanoparticles-decorated poly(vinyl alcohol) aerogel assisted by portable pressure meter. <i>Theranostics</i> , 2020 , 10, 5064-5073	12.1	8
179	A Self-Powered Biosensor with a Flake Electrochromic Display for Electrochemical and Colorimetric Formaldehyde Detection. <i>ACS Sensors</i> , 2019 , 4, 2631-2637	9.2	20
178	Biomimetic design for enhancing the peroxidase mimicking activity of hemin. <i>Nanoscale</i> , 2019 , 11, 12603-12609	7.7	32
177	Deep Eutectic Solvent with Prussian Blue and Tungsten Oxide for Green and Low-Cost Electrochromic Devices. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 1038-1045	4	12
176	Single-atom nanozymes. <i>Science Advances</i> , 2019 , 5, eaav5490	14.3	329
175	Point-of-care testing of various analytes by means of a one-step competitive displacement reaction and pregnancy test strips. <i>Sensors and Actuators B: Chemical</i> , 2019 , 288, 163-170	8.5	17
174	A signal-flexible gene diagnostic strategy coupling loop-mediated isothermal amplification with hybridization chain reaction. <i>Analytica Chimica Acta</i> , 2019 , 1079, 171-179	6.6	13
173	Self-Rechargeable-Battery-Driven Device for Simultaneous Electrochromic Windows, ROS Biosensing, and Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 28072-28077	9.5	28

172 9. Self-powered electrochemical biosensors **2019**, 167-188

171	Fuel-Free Bio-photoelectrochemical Cells Based on a Water/Oxygen Circulation System with a Ni:FeOOH/BiVO Photoanode. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1547-1551	16.4	33
170	Shape-Control of Pt-Ru Nanocrystals: Tuning Surface Structure for Enhanced Electrocatalytic Methanol Oxidation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1142-1147	16.4	311
169	Smart Sensing Based on DNA-Metal Interaction Enables a Label-Free and Resettable Security Model of Electrochemical Molecular Keypad Lock. <i>ACS Sensors</i> , 2018 , 3, 54-58	9.2	6
168	Recent advances in spectroelectrochemistry. <i>Nanoscale</i> , 2018 , 10, 3089-3111	7.7	79
167	Investigation of an eco-friendly aerogel as a substrate for the immobilization of MoS nanoflowers for removal of mercury species from aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2018 , 525, 251-259	9.3	14
166	A simple, label-free, electrochemical DNA parity generator/checker for error detection during data transmission based on "aptamer-nanoclaw"-modulated protein steric hindrance. <i>Chemical Science</i> , 2018 , 9, 6981-6987	9.4	25
165	Electrochemical fabrication of nanoporous gold electrodes in a deep eutectic solvent for electrochemical detections. <i>Chemical Communications</i> , 2018 , 54, 8853-8856	5.8	22
164	Prussian blue with intrinsic heme-like structure as peroxidase mimic. <i>Nano Research</i> , 2018 , 11, 4905-4913	10	66
163	Porous CoO nanoplates with pH-switchable peroxidase- and catalase-like activity. <i>Nanoscale</i> , 2018 , 10, 19140-19146	7.7	50
162	Preparation, performance, and application of a stable, sensitive and cost-effective microelectrode array. <i>Talanta</i> , 2018 , 188, 245-250	6.2	4
161	Nanozyme: An emerging alternative to natural enzyme for biosensing and immunoassay. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 105, 218-224	14.6	319
160	One-Pot Synthesis of FeO Nanoparticle Loaded 3D Porous Graphene Nanocomposites with Enhanced Nanozyme Activity for Glucose Detection. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7465-7471	9.5	149
159	Simple, fast, label-free, and nanoquencher-free system for operating multivalued DNA logic gates using polythymine templated CuNPs as signal reporters. <i>Nano Research</i> , 2017 , 10, 2560-2569	10	21
158	High-Index Facets Bounded Platinum-Iridium Concave Nanocubes with Enhanced Electrocatalytic Properties. <i>Chemistry of Materials</i> , 2017 , 29, 4557-4562	9.6	63
157	New applications of genetically modified <i>Pseudomonas aeruginosa</i> for toxicity detection in water. <i>Chemosphere</i> , 2017 , 184, 106-111	8.4	14
156	Toxicity detection in water containing heavy metal ions with a self-powered microbial fuel cell-based biosensor. <i>Talanta</i> , 2017 , 168, 210-216	6.2	89
155	Exploiting Polydopamine Nanospheres to DNA Computing: A Simple, Enzyme-Free and G-Quadruplex-Free DNA Parity Generator/Checker for Error Detection during Data Transmission. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 1322-1330	9.5	33

154	Tyramine Hydrochloride Based Label-Free System for Operating Various DNA Logic Gates and a DNA Caliper for Base Number Measurements. <i>ChemPhysChem</i> , 2017 , 18, 1767-1772	3.2	10
153	Coupling Sensitive Nucleic Acid Amplification with Commercial Pregnancy Test Strips. <i>Angewandte Chemie</i> , 2017 , 129, 1012-1016	3.6	16
152	Coupling Sensitive Nucleic Acid Amplification with Commercial Pregnancy Test Strips. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 992-996	16.4	98
151	Small Microbial Three-Electrode Cell Based Biosensor for Online Detection of Acute Water Toxicity. <i>ACS Sensors</i> , 2017 , 2, 1637-1643	9.2	17
150	GOx@ZIF-8(NiPd) Nanoflower: An Artificial Enzyme System for Tandem Catalysis. <i>Angewandte Chemie</i> , 2017 , 129, 16298-16301	3.6	37
149	GOx@ZIF-8(NiPd) Nanoflower: An Artificial Enzyme System for Tandem Catalysis. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 16082-16085	16.4	231
148	Introducing Ratiometric Fluorescence to MnO Nanosheet-Based Biosensing: A Simple, Label-Free Ratiometric Fluorescent Sensor Programmed by Cascade Logic Circuit for Ultrasensitive GSH Detection. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 25870-25877	9.5	123
147	Nucleic Acid Biosensors: Recent Advances and Perspectives. <i>Analytical Chemistry</i> , 2017 , 89, 189-215	7.8	249
146	A DNA-based parity generator/checker for error detection through data transmission with visual readout and an output-correction function. <i>Chemical Science</i> , 2017 , 8, 1888-1895	9.4	44
145	One-step synthesis of ultrathin PtPb nerve-like nanowires as robust catalysts for enhanced methanol electrooxidation. <i>Nanoscale</i> , 2017 , 9, 201-207	7.7	73
144	Self-powered fluorescence display devices based on a fast self-charging/recharging battery (Mg/Prussian blue). <i>Chemical Science</i> , 2016 , 7, 6721-6727	9.4	32
143	A miniature origami biofuel cell based on a consumed cathode. <i>Chemical Communications</i> , 2016 , 52, 13498-13508	9.8	39
142	A label-free colorimetric aptasensor for simple, sensitive and selective detection of Pt (II) based on platinum (II)-oligonucleotide coordination induced gold nanoparticles aggregation. <i>Biosensors and Bioelectronics</i> , 2016 , 85, 771-776	11.8	24
141	Engineering the bioelectrochemical interface using functional nanomaterials and microchip technique toward sensitive and portable electrochemical biosensors. <i>Biosensors and Bioelectronics</i> , 2016 , 76, 80-90	11.8	78
140	Engineering Signaling Aptamers That Rely on Kinetic Rather Than Equilibrium Competition. <i>Analytical Chemistry</i> , 2016 , 88, 2250-7	7.8	14
139	Label-free and enzyme-free platform for the construction of advanced DNA logic devices based on the assembly of graphene oxide and DNA-templated AgNCs. <i>Nanoscale</i> , 2016 , 8, 3834-40	7.7	70
138	Triple-enzyme mimetic activity of nickel-palladium hollow nanoparticles and their application in colorimetric biosensing of glucose. <i>Chemical Communications</i> , 2016 , 52, 5410-3	5.8	112
137	Cascade DNA logic device programmed ratiometric DNA analysis and logic devices based on a fluorescent dual-signal probe of a G-quadruplex DNAzyme. <i>Chemical Communications</i> , 2016 , 52, 3766-9	5.8	43

136	Chemically doped fluorescent carbon and graphene quantum dots for bioimaging, sensor, catalytic and photoelectronic applications. <i>Nanoscale</i> , 2016 , 8, 2532-43	7.7	356
135	A label-free and enzyme-free system for operating various logic devices using poly(thymine)-templated CuNPs and SYBR Green I as signal transducers. <i>Nanoscale</i> , 2016 , 8, 14243-9	7.7	19
134	Strand-Exchange Nucleic Acid Circuitry with Enhanced Thermo-and Structure- Buffering Abilities Turns Gene Diagnostics Ultra-Reliable and Environmental Compatible. <i>Scientific Reports</i> , 2016 , 6, 36605	4.9	13
133	Polydopamine Nanotubes as an Effective Fluorescent Quencher for Highly Sensitive and Selective Detection of Biomolecules Assisted with Exonuclease III Amplification. <i>Analytical Chemistry</i> , 2016 , 88, 9158-65	7.8	60
132	Resistance-based logic aptamer sensor for CCRF-CEM and Ramos cells integrated on microfluidic chip. <i>Electrochemistry Communications</i> , 2015 , 59, 64-67	5.1	10
131	A Sweet Spot for Molecular Diagnostics: Coupling Isothermal Amplification and Strand Exchange Circuits to Glucometers. <i>Scientific Reports</i> , 2015 , 5, 11039	4.9	54
130	Implementation of Arithmetic Functions on a Simple and Universal Molecular Beacon Platform. <i>Advanced Science</i> , 2015 , 2, 1500054	13.6	31
129	Label-free aptamer biosensor for thrombin detection based on functionalized graphene nanocomposites. <i>Talanta</i> , 2015 , 141, 247-52	6.2	58
128	Engineering DNA Three-Way Junction with Multifunctional Moieties: Sensing Platform for Bioanalysis. <i>Analytical Chemistry</i> , 2015 , 87, 11295-300	7.8	38
127	G-quadruplex DNA/protoporphyrin IX-based synergistic platform for targeted photodynamic cancer therapy. <i>Talanta</i> , 2015 , 134, 298-304	6.2	7
126	How to split a G-quadruplex for DNA detection: new insight into the formation of DNA split G-quadruplex. <i>Chemical Science</i> , 2015 , 6, 4822-4827	9.4	48
125	Aptamer-based sensing platform using three-way DNA junction-driven strand displacement and its application in DNA logic circuit. <i>Analytical Chemistry</i> , 2014 , 86, 312-6	7.8	55
124	A resettable and reprogrammable DNA-based security system to identify multiple users with hierarchy. <i>ACS Nano</i> , 2014 , 8, 2796-803	16.7	48
123	Molecular aptamer beacon tuned DNA strand displacement to transform small molecules into DNA logic outputs. <i>Chemical Communications</i> , 2014 , 50, 3321-3	5.8	37
122	Reagentless, ratiometric electrochemical DNA sensors with improved robustness and reproducibility. <i>Analytical Chemistry</i> , 2014 , 86, 8010-6	7.8	140
121	Energetic Graphene-Based Electrochemical Analytical Devices in Nucleic Acid, Protein and Cancer Diagnostics and Detection. <i>Electroanalysis</i> , 2014 , 26, 14-29	3	23
120	Multiplexed bioactive paper based on GO@SiO ₂ @CeO ₂ nanosheets for a low-cost diagnostics platform. <i>Biosensors and Bioelectronics</i> , 2014 , 52, 324-9	11.8	36
119	On the Use of Carbon Nanotubes to Promote the Electricity Generation During Sulfate Removal. <i>Electroanalysis</i> , 2013 , 25, 833-837	3	15

118	Self-powered fluorescence controlled switch systems based on biofuel cells. <i>Energy and Environmental Science</i> , 2013 , 6, 3015	35.4	33
117	Gold nanocluster-based electrochemically controlled fluorescence switch surface with prussian blue as the electrical signal receptor. <i>Chemical Communications</i> , 2013 , 49, 243-5	5.8	33
116	A new approach to light up DNA/Ag nanocluster-based beacons for bioanalysis. <i>Chemical Science</i> , 2013 , 4, 4004	9.4	102
115	Toxicity detection of sodium nitrite, borax and aluminum potassium sulfate using electrochemical method. <i>Journal of Environmental Sciences</i> , 2013 , 25, 785-90	6.4	12
114	Synthesis of graphene-supported noble metal hybrid nanostructures and their applications as advanced electrocatalysts for fuel cells. <i>Nanoscale</i> , 2013 , 5, 10765-75	7.7	53
113	TiO(2) nanotube arrays: intrinsic peroxidase mimetics. <i>Chemical Communications</i> , 2013 , 49, 10480-2	5.8	102
112	A rapid and sensitive p-benzoquinone-mediated bioassay for determination of heavy metal toxicity in water. <i>Analyst, The</i> , 2013 , 138, 3297-302	5	24
111	DNA-templated Ag nanoclusters as signal transducers for a label-free and resettable keypad lock. <i>Chemical Communications</i> , 2013 , 49, 3107-9	5.8	25
110	"Fitting" makes "sensing" simple: label-free detection strategies based on nucleic acid aptamers. <i>Accounts of Chemical Research</i> , 2013 , 46, 203-13	24.3	199
109	Recent progress in graphene-based nanomaterials as advanced electrocatalysts towards oxygen reduction reaction. <i>Nanoscale</i> , 2013 , 5, 1753-67	7.7	312
108	Multifunctional polyoxometalates-modified upconversion nanoparticles: integration of electrochromic devices and antioxidants detection. <i>Chemical Communications</i> , 2013 , 49, 2400-2	5.8	29
107	A novel colorimetric biosensor for monitoring and detecting acute toxicity in water. <i>Analyst, The</i> , 2013 , 138, 702-7	5	17
106	Enzyme-free unlabeled DNA logic circuits based on toehold-mediated strand displacement and split G-quadruplex enhanced fluorescence. <i>Advanced Materials</i> , 2013 , 25, 2440-4	24	129
105	G-quadruplex-based fluorescent assay of S1 nuclease activity and K ⁺ . <i>Analytical Chemistry</i> , 2013 , 85, 2431-5	5	46
104	A visible multi-digit DNA keypad lock based on split G-quadruplex DNAzyme and silver microspheres. <i>Chemical Communications</i> , 2013 , 49, 5459-61	5.8	40
103	Reversible photo-chem-electrotriggered three-state luminescence switching based on core-shell nanostructures. <i>Nanoscale</i> , 2013 , 5, 4344-50	7.7	22
102	Four-way junction-driven DNA strand displacement and its application in building majority logic circuit. <i>ACS Nano</i> , 2013 , 7, 10211-7	16.7	88
101	Analytical potential of gold nanoparticles in functional aptamer-based biosensors 2013 , 85-106		

100	A label-free, G-quadruplex DNAzyme-based fluorescent probe for signal-amplified DNA detection and turn-on assay of endonuclease. <i>Biosensors and Bioelectronics</i> , 2012 , 34, 100-5	11.8	63
99	Small-size biofuel cell on paper. <i>Biosensors and Bioelectronics</i> , 2012 , 35, 155-159	11.8	92
98	A DNA-based and electrochemically transduced keypad lock system with reset function. <i>Chemistry - A European Journal</i> , 2012 , 18, 14939-42	4.8	30
97	Neutral red based colorimetric microorganism bioassay for direct toxicity assessment of toxic chemicals in water. <i>Analytical Methods</i> , 2012 , 4, 3849	3.2	3
96	Target-induced conjunction of split aptamer as new chiral selector for oligopeptide on graphene-mesoporous silica-gold nanoparticle hybrids modified sensing platform. <i>Chemical Communications</i> , 2012 , 48, 799-801	5.8	51
95	In situ loading of well-dispersed gold nanoparticles on two-dimensional graphene oxide/SiO ₂ composite nanosheets and their catalytic properties. <i>Nanoscale</i> , 2012 , 4, 1641-6	7.7	110
94	Fabrication of a sensor chip containing Au and Ag electrodes and its application for sensitive Hg(II) determination using chronocoulometry. <i>Analytica Chimica Acta</i> , 2012 , 738, 45-50	6.6	24
93	A graphene-based real-time fluorescent assay of deoxyribonuclease I activity and inhibition. <i>Analytica Chimica Acta</i> , 2012 , 740, 88-92	6.6	39
92	Biocomputing: Explore Its Realization and Intelligent Logic Detection 2012 , 117-131		
91	Graphene enhanced electron transfer at aptamer modified electrode and its application in biosensing. <i>Analytical Chemistry</i> , 2012 , 84, 7301-7	7.8	100
90	Progress in graphene-based photoactive nanocomposites as a promising class of photocatalyst. <i>Nanoscale</i> , 2012 , 4, 5814-25	7.7	128
89	Reversible electroswitchable luminescence in thin films of organic-inorganic hybrid assemblies. <i>Nanoscale</i> , 2012 , 4, 7676-81	7.7	13
88	Solid-state label-free integrated aptasensor based on graphene-mesoporous silica-gold nanoparticle hybrids and silver microspheres. <i>Analytical Chemistry</i> , 2011 , 83, 8035-40	7.8	86
87	Graphene and its derivative-based sensing materials for analytical devices. <i>Journal of Materials Chemistry</i> , 2011 , 21, 18503		104
86	Label-free, regenerative and sensitive surface plasmon resonance and electrochemical aptasensors based on graphene. <i>Chemical Communications</i> , 2011 , 47, 7794-6	5.8	107
85	Bioelectrochemical interface engineering: toward the fabrication of electrochemical biosensors, biofuel cells, and self-powered logic biosensors. <i>Accounts of Chemical Research</i> , 2011 , 44, 1232-43	24.3	253
84	Double-strand DNA-templated formation of copper nanoparticles as fluorescent probe for label-free aptamer sensor. <i>Analytical Chemistry</i> , 2011 , 83, 5122-7	7.8	225
83	Cell-based biosensor for measurement of phenol and nitrophenols toxicity. <i>Talanta</i> , 2011 , 84, 766-70	6.2	37

82	A simple and sensitive fluorescent sensing platform for Hg ²⁺ ions assay based on G-quenching. <i>Talanta</i> , 2011 , 85, 713-7	6.2	10
81	Microfluidic electrochemical aptameric assay integrated on-chip: a potentially convenient sensing platform for the amplified and multiplex analysis of small molecules. <i>Analytical Chemistry</i> , 2011 , 83, 1523-9	7.8	85
80	Hemin-graphene hybrid nanosheets with intrinsic peroxidase-like activity for label-free colorimetric detection of single-nucleotide polymorphism. <i>ACS Nano</i> , 2011 , 5, 1282-90	16.7	511
79	G-quadruplex DNAzyme based molecular catalytic beacon for label-free colorimetric logic gates. <i>Biomaterials</i> , 2011 , 32, 7318-24	15.6	66
78	An integrated sensing system for detection of DNA using new parallel-motif DNA triplex system and graphene-mesoporous silica-gold nanoparticle hybrids. <i>Biomaterials</i> , 2011 , 32, 8584-92	15.6	108
77	DNA-Ag nanoclusters as fluorescence probe for turn-on aptamer sensor of small molecules. <i>Biosensors and Bioelectronics</i> , 2011 , 28, 33-7	11.8	113
76	Graphene nanosheet: synthesis, molecular engineering, thin film, hybrids, and energy and analytical applications. <i>Chemical Society Reviews</i> , 2011 , 40, 2644-72	58.5	1085
75	Fluorescent silver nanoclusters in hybridized DNA duplexes for the turn-on detection of Hg ²⁺ ions. <i>Chemical Communications</i> , 2011 , 47, 11065-7	5.8	164
74	G-Quadruplex-based DNAzyme for colorimetric detection of cocaine: using magnetic nanoparticles as the separation and amplification element. <i>Analyst, The</i> , 2011 , 136, 493-7	5	93
73	Metal nanomaterial-based self-assembly: Development, electrochemical sensing and SERS applications. <i>Journal of Materials Chemistry</i> , 2011 , 21, 16704		43
72	Self-powered sensor for trace Hg ²⁺ detection. <i>Analytical Chemistry</i> , 2011 , 83, 3968-72	7.8	113
71	Boolean logic gates based on oxygen-controlled biofuel cell in one pot. <i>Electrochimica Acta</i> , 2011 , 56, 4112-4118	6.7	23
70	'Non-destructive' biocomputing security system based on gas-controlled biofuel cell and potentially used for intelligent medical diagnostics. <i>Bioinformatics</i> , 2011 , 27, 399-404	7.2	18
69	Evaluation of Floor-grooved Micromixers using Concentration-channel Length Profiles. <i>Micromachines</i> , 2010 , 1, 19-33	3.3	28
68	A simplified design of the staggered herringbone micromixer for practical applications. <i>Biomicrofluidics</i> , 2010 , 4,	3.2	46
67	Integrated self-powered microchip biosensor for endogenous biological cyanide. <i>Analytical Chemistry</i> , 2010 , 82, 4283-7	7.8	89
66	Solid-state probe based electrochemical aptasensor for cocaine: a potentially convenient, sensitive, repeatable, and integrated sensing platform for drugs. <i>Analytical Chemistry</i> , 2010 , 82, 1556-63	7.8	134
65	Cyclodextrin functionalized graphene nanosheets with high supramolecular recognition capability: synthesis and host-guest inclusion for enhanced electrochemical performance. <i>ACS Nano</i> , 2010 , 4, 4001-10	16.7	543

64	Parallel G-quadruplex-specific fluorescent probe for monitoring DNA structural changes and label-free detection of potassium ion. <i>Analytical Chemistry</i> , 2010 , 82, 7576-80	7.8	166
63	Lead(II)-induced allosteric G-quadruplex DNAzyme as a colorimetric and chemiluminescence sensor for highly sensitive and selective Pb ²⁺ detection. <i>Analytical Chemistry</i> , 2010 , 82, 1515-20	7.8	306
62	A lead(II)-driven DNA molecular device for turn-on fluorescence detection of lead(II) ion with high selectivity and sensitivity. <i>Journal of the American Chemical Society</i> , 2010 , 132, 13156-7	16.4	317
61	Aptamer-controlled biofuel cells in logic systems and used as self-powered and intelligent logic aptasensors. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2172-4	16.4	123
60	Three-dimensional Pt-on-Pd bimetallic nanodendrites supported on graphene nanosheet: facile synthesis and used as an advanced nanoelectrocatalyst for methanol oxidation. <i>ACS Nano</i> , 2010 , 4, 547-55	16.7	1041
59	Microfabricated on-chip integrated Au-Ag-Au three-electrode system for in situ mercury ion determination. <i>Analyst</i> , 2010 , 135, 1010-4	5	53
58	Ultrasensitive nucleic acid detection using confocal laser scanning microscope with high crystalline silver dendrites. <i>Chemical Communications</i> , 2010 , 46, 8818-20	5.8	11
57	An IMP-Reset gate-based reusable and self-powered "smart" logic aptasensor on a microfluidic biofuel cell. <i>Lab on A Chip</i> , 2010 , 10, 2932-6	7.2	33
56	Platinum nanoparticle ensemble-on-graphene hybrid nanosheet: one-pot, rapid synthesis, and used as new electrode material for electrochemical sensing. <i>ACS Nano</i> , 2010 , 4, 3959-68	16.7	660
55	Homogeneous analysis: label-free and substrate-free aptasensors. <i>Chemistry - an Asian Journal</i> , 2010 , 5, 1262-72	4.5	11
54	Au NPs-enhanced surface plasmon resonance for sensitive detection of mercury(II) ions. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 2622-6	11.8	88
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