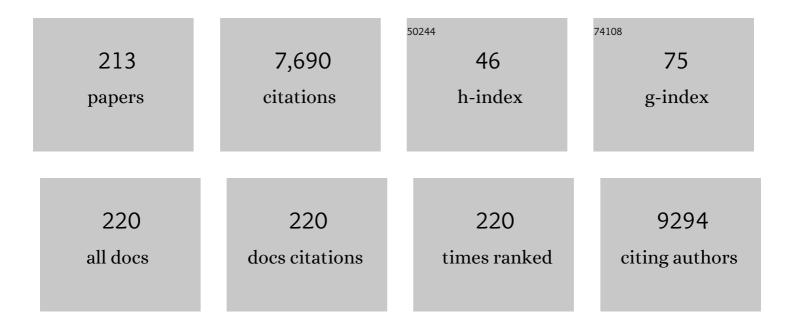
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Simple Synthesis of Functionalized Superparamagnetic Magnetite/Silica Core/Shell Nanoparticles and their Application as Magnetically Separable Highâ€Performance Biocatalysts. Small, 2008, 4, 143-152.	5.2	351
2	Black Phosphorus (BP) Nanodots for Potential Biomedical Applications. Small, 2016, 12, 214-219.	5.2	252
3	Crosslinked enzyme aggregates in hierarchically-ordered mesoporous silica: A simple and effective method for enzyme stabilization. Biotechnology and Bioengineering, 2007, 96, 210-218.	1.7	187
4	Simple Synthesis of Hierarchically Ordered Mesocellular Mesoporous Silica Materials Hosting Crosslinked Enzyme Aggregates. Small, 2005, 1, 744-753.	5.2	184
5	Activated carbon-containing alginate adsorbent for the simultaneous removal of heavy metals and toxic organics. Process Biochemistry, 2007, 42, 1371-1377.	1.8	157
6	"Illusionary―Polymerase Activity Triggered by Metal Ions: Use for Molecular Logicâ€Gate Operations. Angewandte Chemie - International Edition, 2010, 49, 9757-9760.	7.2	150
7	Labelâ€Free Colorimetric Detection of Nucleic Acids Based on Targetâ€Induced Shielding Against the Peroxidaseâ€Mimicking Activity of Magnetic Nanoparticles. Small, 2011, 7, 1521-1525.	5.2	145
8	A gold nanorod-based optical DNA biosensor for the diagnosis of pathogens. Biosensors and Bioelectronics, 2010, 26, 667-673.	5.3	144
9	Î ³ -Irradiation-induced preparation of Ag and Au nanoparticles and their characterizations. Materials Chemistry and Physics, 2007, 105, 325-330.	2.0	140
10	A label-free method for detecting biological thiols based on blocking of Hg2+-quenching of fluorescent gold nanoclusters. Biosensors and Bioelectronics, 2013, 45, 65-69.	5.3	136
11	High sensitive and selective electrochemical biosensor: Label-free detection of human norovirus using affinity peptide as molecular binder. Biosensors and Bioelectronics, 2017, 87, 164-170.	5.3	127
12	Fabrication of Nanoporous Nanocomposites Entrapping Fe 3 O 4 Magnetic Nanoparticles and Oxidases for Colorimetric Biosensing. Chemistry - A European Journal, 2011, 17, 10700-10707.	1.7	114
13	Universal Colorimetric Detection of Nucleic Acids Based on Polydiacetylene (PDA) Liposomes. Advanced Functional Materials, 2008, 18, 701-708.	7.8	113
14	Circular dichroism study of chiral biomolecules conjugated with silver nanoparticles. Nanotechnology, 2004, 15, S660-S663.	1.3	112
15	A Magnetically Separable, Highly Stable Enzyme System Based on Nanocomposites of Enzymes and Magnetic Nanoparticles Shipped in Hierarchically Ordered, Mesocellular, Mesoporous Silica. Small, 2005, 1, 1203-1207.	5.2	106
16	Highly efficient colorimetric detection of target cancer cells utilizing superior catalytic activity of graphene oxide–magnetic-platinum nanohybrids. Nanoscale, 2014, 6, 1529-1536.	2.8	103
17	Photoluminescent carbon nanotags from harmful cyanobacteria for drug delivery and imaging in cancer cells. Scientific Reports, 2014, 4, 4665.	1.6	93
18	Novel amine-functionalized iron trimesates with enhanced peroxidase-like activity and their applications for the fluorescent assay of choline and acetylcholine. Biosensors and Bioelectronics, 2018, 100, 161-168.	5.3	93

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19	Au@ZIF-8 SERS paper for food spoilage detection. Biosensors and Bioelectronics, 2021, 179, 113063.	5.3	91
20	Immobilization of Mucor javanicus lipase on effectively functionalized silica nanoparticles. Journal of Molecular Catalysis B: Enzymatic, 2006, 39, 62-68.	1.8	89
21	Clustered Regularly Interspaced Short Palindromic Repeats-Mediated Surface-Enhanced Raman Scattering Assay for Multidrug-Resistant Bacteria. ACS Nano, 2020, 14, 17241-17253.	7.3	89
22	Polydiacetylene (PDA)-based colorimetric detection of biotin–streptavidin interactions. Biosensors and Bioelectronics, 2006, 21, 1536-1544.	5.3	82
23	HER2/neu Antibody Conjugated Poly(amino acid)-Coated Iron Oxide Nanoparticles for Breast Cancer MR Imaging. Biomacromolecules, 2010, 11, 2866-2872.	2.6	82
24	Simple and Universal Platform for Logic Gate Operations Based on Molecular Beacon Probes. Small, 2012, 8, 2203-2212.	5.2	81
25	Specific Colorimetric Detection of Proteins Using Bidentate Aptamerâ€Conjugated Polydiacetylene (PDA) Liposomes. Advanced Functional Materials, 2010, 20, 3092-3097.	7.8	79
26	Direct colorimetric diagnosis of pathogen infections by utilizing thiol-labeled PCR primers and unmodified gold nanoparticles. Biosensors and Bioelectronics, 2010, 25, 1941-1946.	5.3	77
27	A Highly Efficient Electrochemical Biosensing Platform by Employing Conductive Nanocomposite Entrapping Magnetic Nanoparticles and Oxidase in Mesoporous Carbon Foam. Advanced Functional Materials, 2011, 21, 2868-2875.	7.8	75
28	Colorimetric Detection of SARS-CoV-2 and Drug-Resistant pH1N1 Using CRISPR/dCas9. ACS Sensors, 2020, 5, 4017-4026.	4.0	75
29	Ultrafast colorimetric detection of nucleic acids based on the inhibition of the oxidase activity of cerium oxide nanoparticles. Chemical Communications, 2014, 50, 9577-9580.	2.2	74
30	DNAzyme Molecular Beacon Probes for Target-Induced Signal-Amplifying Colorimetric Detection of Nucleic Acids. Analytical Chemistry, 2011, 83, 494-500.	3.2	71
31	One-dimensional crosslinked enzyme aggregates in SBA-15: Superior catalytic behavior to conventional enzyme immobilization. Microporous and Mesoporous Materials, 2008, 111, 18-23.	2.2	69
32	A New Sensing Metric to Reduce Data Fluctuations in a Nanogap-Embedded Field-Effect Transistor Biosensor. IEEE Transactions on Electron Devices, 2012, 59, 2825-2831.	1.6	69
33	Novel type of alginate gel-based adsorbents for heavy metal removal. Journal of Chemical Technology and Biotechnology, 2004, 79, 1080-1083.	1.6	66
34	Label-free DNA detection with a nanogap embedded complementary metal oxide semiconductor. Nanotechnology, 2011, 22, 135502.	1.3	66
35	Enzyme-free and label-free miRNA detection based on target-triggered catalytic hairpin assembly and fluorescence enhancement of DNA-silver nanoclusters. Sensors and Actuators B: Chemical, 2018, 260, 140-145.	4.0	64
36	A Novel Colorimetric Immunoassay Utilizing the Peroxidase Mimicking Activity of Magnetic Nanoparticles. International Journal of Molecular Sciences, 2013, 14, 9999-10014.	1.8	61

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37	Intrinsic peroxidase-like activity of sonochemically synthesized protein copper nanoflowers and its application for the sensitive detection of glucose. Sensors and Actuators B: Chemical, 2019, 283, 749-754.	4.0	60
38	A Highly Efficient Colorimetric Immunoassay Using a Nanocomposite Entrapping Magnetic and Platinum Nanoparticles in Ordered Mesoporous Carbon. Advanced Healthcare Materials, 2014, 3, 36-41.	3.9	58
39	A simple and eco-friendly one-pot synthesis of nuclease-resistant DNA–inorganic hybrid nanoflowers. Journal of Materials Chemistry B, 2017, 5, 2231-2234.	2.9	55
40	Low-blinking SERS substrate for switchable detection of kanamycin. Sensors and Actuators B: Chemical, 2019, 282, 765-773.	4.0	55
41	Mismatched pyrrolo-dC-modified duplex DNA as a novel probe for sensitive detection of silver ions. Chemical Communications, 2012, 48, 4549.	2.2	52
42	A fluorescent G-quadruplex probe for the assay of base excision repair enzyme activity. Chemical Communications, 2015, 51, 13744-13747.	2.2	51
43	Colorimetric quantification of galactose using a nanostructured multi-catalyst system entrapping galactose oxidase and magnetic nanoparticles as peroxidase mimetics. Analyst, The, 2012, 137, 1137.	1.7	50
44	On-chip colorimetric biosensor based on polydiacetylene (PDA) embedded in photopolymerized poly(ethylene glycol) diacrylate (PEG-DA) hydrogel. Biochemical Engineering Journal, 2006, 29, 103-108.	1.8	49
45	Gold nanoparticle embedded silicon nanowire biosensor for applications of label-free DNA detection. Biosensors and Bioelectronics, 2010, 25, 2182-2185.	5.3	48
46	Smartphone-Based SARS-CoV-2 and Variants Detection System using Colorimetric DNAzyme Reaction Triggered by Loop-Mediated Isothermal Amplification (LAMP) with Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR). ACS Nano, 2022, 16, 11300-11314.	7.3	48
47	A Polydiacetylene Microchip Based on a Biotin–Streptavidin Interaction for the Diagnosis of Pathogen Infections. Small, 2008, 4, 1778-1784.	5.2	47
48	Nanoscale enzyme reactors in mesoporous carbon for improved performance and lifetime of biosensors and biofuel cells. Biosensors and Bioelectronics, 2010, 26, 655-660.	5.3	45
49	Enzymatic Synthesis of Various Aromatic Polyesters in Anhydrous Organic Solvents. Biocatalysis, 1994, 11, 263-271.	0.9	44
50	Diagnosis of HNF-1Â mutations on a PNA zip-code microarray by single base extension. Nucleic Acids Research, 2005, 33, e19-e19.	6.5	44
51	Sequential Feeding of Clucose and Valerate in a Fed-Batch Culture of Ralstonia eutropha for Production of Poly(hydroxybutyrate-co-hydroxyvalerate) with High 3-Hydroxyvalerate Fraction. Biotechnology Progress, 2008, 20, 140-144.	1.3	44
52	Isothermal Target and Signaling Probe Amplification Method, Based on a Combination of an Isothermal Chain Amplification Technique and a Fluorescence Resonance Energy Transfer Cycling Probe Technology. Analytical Chemistry, 2010, 82, 5937-5943.	3.2	44
53	Regioselective enzymatic acylation of multi-hydroxyl compounds in organic synthesis. Biotechnology and Bioprocess Engineering, 2003, 8, 1-8.	1.4	42
54	Fluorescence-based assay formats and signal amplification strategies for DNA microarray analysis. Chemical Engineering Science, 2006, 61, 954-965.	1.9	42

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55	An ultrasensitive DNAzyme-based colorimetric strategy for nucleic acid detection. Chemical Communications, 2009, , 5838.	2.2	42
56	Investigation of the signaling mechanism and verification of the performance of an electrochemical real-time PCR system based on the interaction of methylene blue with DNA. Analyst, The, 2011, 136, 1573.	1.7	42
57	Colorimetric detection of clinical DNA samples using an intercalator-conjugated polydiacetylene sensor. Biosensors and Bioelectronics, 2015, 72, 127-132.	5.3	42
58	A label-free and enzyme-free signal amplification strategy for a sensitive RNase H activity assay. Nanoscale, 2017, 9, 16149-16153.	2.8	42
59	A label-free fluorescent assay for deoxyribonuclease I activity based on DNA-templated silver nanocluster/graphene oxide nanocomposite. Biosensors and Bioelectronics, 2017, 93, 293-297.	5.3	41
60	Technological applications arising from the interactions of DNA bases with metal ions. Current Opinion in Biotechnology, 2014, 28, 17-24.	3.3	39
61	Target-controlled formation of silver nanoclusters in abasic site-incorporated duplex DNA for label-free fluorescence detection of theophylline. Nanoscale, 2014, 6, 9977-9982.	2.8	39
62	Multifunctional Drug Delivery System Using Starch-Alginate Beads for Controlled Release. Biological and Pharmaceutical Bulletin, 2005, 28, 394-397.	0.6	38
63	Reagentless colorimetric biosensing platform based on nanoceria within an agarose gel matrix. Biosensors and Bioelectronics, 2017, 93, 226-233.	5.3	38
64	Advanced carbon dots via plasma-induced surface functionalization for fluorescent and bio-medical applications. Nanoscale, 2017, 9, 9210-9217.	2.8	37
65	Rapid and ultrasensitive detection of microRNA by target-assisted isothermal exponential amplification coupled with poly (thymine)-templated fluorescent copper nanoparticles. Nanotechnology, 2016, 27, 425502.	1.3	36
66	Enzyme-catalyzed signal amplification for electrochemical DNA detection with a PNA-modified electrode. Analyst, The, 2008, 133, 100-104.	1.7	35
67	Effective peroxidase-like activity of a water-solubilized Fe-aminoclay for use inimmunoassay. Biosensors and Bioelectronics, 2013, 42, 373-378.	5.3	35
68	A Personal Glucose Meter for Label-Free and Washing-Free Biomolecular Detection. Analytical Chemistry, 2018, 90, 11340-11343.	3.2	35
69	Biodistribution and clearance of aminoclay nanoparticles: implication for in vivo applicability as a tailor-made drug delivery carrier. Journal of Materials Chemistry B, 2014, 2, 7567-7574.	2.9	34
70	Highly Sensitive Biomolecule Detection on a Quartz Crystal Microbalance Using Gold Nanoparticles as Signal Amplification Probes. Analytical Sciences, 2007, 23, 177-181.	0.8	32
71	A sensitive dual colorimetric and fluorescence system for assaying the activity of alkaline phosphatase that relies on pyrophosphate inhibition of the peroxidase activity of copper ions. Analyst, The, 2014, 139, 4691-4695.	1.7	32
72	Metal ion triggers for reversible switching of DNA polymerase. Chemical Communications, 2016, 52, 4868-4871.	2.2	32

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73	Universal, colorimetric microRNA detection strategy based on target-catalyzed toehold-mediated strand displacement reaction. Nanotechnology, 2018, 29, 085501.	1.3	32
74	A DNA-templated silver nanocluster probe for label-free, turn-on fluorescence-based screening of homo-adenine binding molecules. Biosensors and Bioelectronics, 2015, 64, 618-624.	5.3	31
75	Target DNA induced switches of DNA polymerase activity. Chemical Communications, 2015, 51, 9942-9945.	2.2	31
76	Ultrasensitive version of nucleic acid sequence-based amplification (NASBA) utilizing a nicking and extension chain reaction system. Nanoscale, 2021, 13, 10785-10791.	2.8	31
77	An ultrasensitive peroxidase DNAzyme-associated aptasensor that utilizes a target-triggered enzymatic signal amplification strategy. Chemical Communications, 2011, 47, 9876.	2.2	30
78	An electrochemical one-step system for assaying methyltransferase activity based on transport of a quantum dot signaling tracer. Biosensors and Bioelectronics, 2013, 49, 542-546.	5.3	30
79	Surface-enhanced Raman scattering-based immunoassay for severe acute respiratory syndrome coronavirus 2. Biosensors and Bioelectronics, 2022, 202, 114008.	5.3	30
80	Array-based mutation detection of BRCA1 using direct probe/target hybridization. Analytical Biochemistry, 2005, 337, 332-337.	1.1	29
81	Pyrrolo-dC based fluorescent aptasensors for the molecular recognition of targets. Chemical Communications, 2010, 46, 3271.	2.2	29
82	Rapid and label-free, electrochemical DNA detection utilizing the oxidase-mimicking activity of cerium oxide nanoparticles. Electrochemistry Communications, 2019, 99, 5-10.	2.3	29
83	An anisotropic snowflake-like structural assembly of polymer-capped gold nanoparticles. Journal of Nanoparticle Research, 2011, 13, 2173-2180.	0.8	28
84	Real-time colorimetric detection of target DNA using isothermal target and signaling probe amplification and gold nanoparticle cross-linking assay. Biosensors and Bioelectronics, 2011, 26, 1953-1958.	5.3	27
85	Aptamer-based cell imaging reagents capable of fluorescence switching. Chemical Communications, 2014, 50, 12329-12332.	2.2	27
86	Glucose oxidase-like activity of cerium oxide nanoparticles: use for personal glucose meter-based label-free target DNA detection. Theranostics, 2020, 10, 4507-4514.	4.6	27
87	A Convenient Alcohol Sensor Using One-Pot Nanocomposite Entrapping Alcohol Oxidase and Magnetic Nanoparticles as Peroxidase Mimetics. Journal of Nanoscience and Nanotechnology, 2012, 12, 5914-5919.	0.9	26
88	Barcode DNA-Mediated Signal Amplifying Strategy for Ultrasensitive Biomolecular Detection on Matrix-Assisted Laser Desorption Ionization Time of Flight (MALDI-TOF) Mass Spectrometry. Analytical Chemistry, 2017, 89, 8966-8973.	3.2	26
89	A DNA intercalation-based electrochemical method for detection of Chlamydia trachomatis utilizing peroxidase-catalyzed signal amplification. Biosensors and Bioelectronics, 2008, 24, 665-669.	5.3	25
90	Two zinc-aminoclays' in-vitro cytotoxicity assessment in HeLa cells and in-vivo embryotoxicity assay in zebrafish. Ecotoxicology and Environmental Safety, 2017, 137, 103-112.	2.9	25

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91	CRISPR/Cas12a collateral cleavage activity for simple and rapid detection of protein/small molecule interaction. Biosensors and Bioelectronics, 2021, 194, 113587.	5.3	25
92	Surface-enhanced Raman scattering (SERS) spectra of sodium benzoate and 4-picoline in Ag colloids prepared by Î ³ -irradiation. Applied Surface Science, 2005, 243, 76-81.	3.1	24
93	Colorimetric SNP Genotyping Based on Alleleâ€Specific PCR by Using a Thiolâ€Labeled Primer. ChemBioChem, 2011, 12, 1387-1390.	1.3	24
94	A mass spectrometry-based multiplex SNP genotyping by utilizing allele-specific ligation and strand displacement amplification. Biosensors and Bioelectronics, 2017, 91, 122-127.	5.3	24
95	Label-free fluorescent detection of alkaline phosphatase with vegetable waste-derived green carbon probes. Sensors and Actuators B: Chemical, 2018, 262, 469-476.	4.0	24
96	Three-way junction-induced isothermal amplification for nucleic acid detection. Biosensors and Bioelectronics, 2020, 147, 111762.	5.3	24
97	Ultrafast sonochemical synthesis of protein-inorganic nanoflowers. International Journal of Nanomedicine, 2015, 10 Spec Iss, 137.	3.3	23
98	A new s-adenosylhomocysteine hydrolase-linked method for adenosine detection based on DNA-templated fluorescent Cu/Ag nanoclusters. Biosensors and Bioelectronics, 2017, 93, 330-334.	5.3	23
99	Electrochemical detection of zeptomolar miRNA using an RNA-triggered Cu2+ reduction method. Sensors and Actuators B: Chemical, 2022, 360, 131666.	4.0	23
100	Direct and nondestructive verification of PNA immobilization using click chemistry. Biochemical and Biophysical Research Communications, 2008, 376, 633-636.	1.0	22
101	Poly(dimethyl siloxane)-based protein chip for simultaneous detection of multiple samples: Use of glycidyl methacrylate photopolymer for site-specific protein immobilization. Biosensors and Bioelectronics, 2006, 22, 613-620.	5.3	21
102	A one-step electrochemical method for DNA detection that utilizes a peroxidase-mimicking DNAzyme amplified through PCR of target DNA. Biosensors and Bioelectronics, 2011, 30, 73-77.	5.3	21
103	Label-free colorimetric detection of biological thiols based on target-triggered inhibition of photoinduced formation of AuNPs. Nanotechnology, 2016, 27, 055501.	1.3	21
104	Ultrasensitive Detection of Ovarian Cancer Biomarker Using Au Nanoplate SERS Immunoassay. Biochip Journal, 2021, 15, 348-355.	2.5	21
105	Colorimetric Quantification of Glucose and Cholesterol in Human Blood Using a Nanocomposite Entrapping Magnetic Nanoparticles and Oxidases. Journal of Nanoscience and Nanotechnology, 2015, 15, 7955-7961.	0.9	20
106	Pyrrolo-dC modified duplex DNA as a novel probe for the sensitive assay of base excision repair enzyme activity. Biosensors and Bioelectronics, 2017, 98, 210-214.	5.3	20
107	Enzymatic transesterification of monosaccharides and amino acid esters in organic solvents. Biotechnology Letters, 1996, 18, 473-478.	1.1	19
108	Size-dependent flocculation behavior of colloidal Au nanoparticles modified with various biomolecules. Ultramicroscopy, 2008, 108, 1273-1277.	0.8	19

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109	Direct detection of unamplified genomic DNA based on photo-induced silver ion reduction by DNA molecules. Chemical Communications, 2013, 49, 2350.	2.2	19
110	Development of a rapid and simple tetracycline detection system based on metal-enhanced fluorescence by europium-doped AgNP@SiO ₂ core–shell nanoparticles. RSC Advances, 2018, 8, 24322-24327.	1.7	19
111	Oligonucleotide chip for the diagnosis of HNF- $1\hat{l}\pm$ mutations. Biosensors and Bioelectronics, 2005, 21, 637-644.	5.3	18
112	SNPs detection by a single-strand specific nuclease on a PNA zip-code microarray. Biosensors and Bioelectronics, 2009, 24, 1706-1711.	5.3	18
113	Electrochemical detection of DNA mutations on a PNA-modified electrode utilizing a single-stranded DNA specific endonuclease. Chemical Communications, 2011, 47, 6611.	2.2	18
114	A novel electrochemical method to detect theophylline utilizing silver ions captured within abasic site-incorporated duplex DNA. Biosensors and Bioelectronics, 2015, 67, 590-594.	5.3	18
115	Aptamer-mediated universal enzyme assay based on target-triggered DNA polymerase activity. Biosensors and Bioelectronics, 2017, 88, 48-54.	5.3	18
116	Ultrasensitive DNA detection based on target-triggered rolling circle amplification and fluorescent poly(thymine)-templated copper nanoparticles. RSC Advances, 2018, 8, 1958-1962.	1.7	18
117	Determination of RNase H activity via real-time monitoring of target-triggered rolling circle amplification. Mikrochimica Acta, 2018, 185, 53.	2.5	18
118	Colorimetric polydiacetylene (PDA) liposome-based assay for rapid and simple detection of CST-fusion protein. Sensors and Actuators B: Chemical, 2019, 278, 190-195.	4.0	18
119	Urinary exosomal mRNA detection using novel isothermal gene amplification method based on three-way junction. Biosensors and Bioelectronics, 2020, 167, 112474.	5.3	18
120	Detection of DNA Immobilization and Hybridization on Gold/Silver Nanostructures Using Localized Surface Plasmon Resonance. Journal of Nanoscience and Nanotechnology, 2009, 9, 1374-1378.	0.9	17
121	Enzyme precipitate coatings of glucose oxidase onto carbon paper for biofuel cell applications. Biotechnology and Bioengineering, 2012, 109, 318-324.	1.7	17
122	A Touchscreen as a Biomolecule Detection Platform. Angewandte Chemie - International Edition, 2012, 51, 748-751.	7.2	17
123	Enzymeâ€Free Colorimetric Detection of Cu ²⁺ by Utilizing Targetâ€Triggered DNAzymes and Toeholdâ€Mediated DNA Strand Displacement Events. Chemistry - A European Journal, 2017, 23, 17379-17383.	1.7	17
124	A novel method to detect mutation in DNA by utilizing exponential amplification reaction triggered by the CRISPR-Cas9 system. Nanoscale, 2021, 13, 7193-7201.	2.8	17
125	Ultrasensitive isothermal method to detect microRNA based on target-induced chain amplification reaction. Biosensors and Bioelectronics, 2021, 178, 113048.	5.3	17
126	Self-priming phosphorothioated hairpin-mediated isothermal amplification. Biosensors and Bioelectronics, 2021, 178, 113051.	5.3	17

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127	Mismatch DNA-specific enzymatic cleavage employed in a new method for the electrochemical detection of genetic mutations. Chemical Communications, 2009, , 4230.	2.2	16
128	Multiplexed Amino Acid Array Utilizing Bioluminescent <i>Escherichia coli</i> Auxotrophs. Analytical Chemistry, 2010, 82, 4072-4077.	3.2	16
129	High-throughput nanoscale lipid vesicle synthesis in a semicircular contraction-expansion array microchannel. Biochip Journal, 2013, 7, 210-217.	2.5	16
130	A simple, sensitive, and label-free assay for alkaline phosphatase activity based on target-promoted exponential strand displacement amplification. Sensors and Actuators B: Chemical, 2018, 262, 1001-1005.	4.0	16
131	Flap endonuclease-initiated enzymatic repairing amplification for ultrasensitive detection of target nucleic acids. Nanoscale, 2019, 11, 3633-3638.	2.8	16
132	Self-Priming Hairpin-Utilized Isothermal Amplification Enabling Ultrasensitive Nucleic Acid Detection. Analytical Chemistry, 2020, 92, 10350-10356.	3.2	16
133	Development of 6E3 antibody-mediated SERS immunoassay for drug-resistant influenza virus. Biosensors and Bioelectronics, 2021, 187, 113324.	5.3	16
134	Rapid and accurate clinical testing for COVID-19 by nicking and extension chain reaction system-based amplification (NESBA). Biosensors and Bioelectronics, 2022, 196, 113689.	5.3	16
135	Mixed self-assembly of polydiacetylenes for highly specific and sensitive strip biosensors. Biosensors and Bioelectronics, 2008, 24, 480-484.	5.3	15
136	A color display system based on thermochromic conjugated polydiacetylene supramolecules. Macromolecular Research, 2010, 18, 404-407.	1.0	15
137	Size and morphology controllable core crossâ€linked selfâ€aggregates from poly(ethylene) Tj ETQq1 1 0.78431	4 rgBT /Ov	verlock 10 Tf 5
138	A simple and sensitive detection of small molecule–protein interactions based on terminal protection-mediated exponential strand displacement amplification. Analyst, The, 2018, 143, 2023-2028.	1.7	15
139	An impedimetric determination of alkaline phosphatase activity based on the oxidation reaction mediated by Cu2+ bound to poly-thymine DNA. RSC Advances, 2018, 8, 11241-11246.	1.7	15
140	Portable glucose meter-based label-free strategy for target DNA detection. Sensors and Actuators B: Chemical, 2020, 310, 127808.	4.0	15
141	Polychromatic Quantum Dot Array to Compose a Community Signal Ensemble for Multiplexed miRNA Detection. ACS Nano, 2022, 16, 11115-11123.	7.3	15
142	Photopatterned Polydiacetylene Images Using a DNA Bio-Photomask. ACS Applied Materials & Interfaces, 2016, 8, 15684-15690.	4.0	14
143	Label-free and washing-free alkaline phosphatase assay using a personal glucose meter. Journal of Biological Engineering, 2019, 13, 51.	2.0	14
144	A one-step and label-free, electrochemical DNA detection using metal ion-mediated molecular beacon probe. Electrochemistry Communications, 2019, 100, 64-69.	2.3	14

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145	<i>In Situ</i> Biosynthesis of a Metal Nanoparticle Encapsulated in Alginate Gel for Imageable Drug-Delivery System. ACS Applied Materials & Interfaces, 2021, 13, 36697-36708.	4.0	14
146	Palindromic hyperbranched rolling circle amplification enabling ultrasensitive microRNA detection. Chemical Communications, 2022, 58, 6518-6521.	2.2	14
147	Nanoscopic observation of a gold nanoparticle-conjugated protein using near-field scanning optical microscopy. Ultramicroscopy, 2008, 108, 1115-1119.	0.8	13
148	PCR-free mutation detection of BRCA1 on a zip-code microarray using ligase chain reaction. Journal of Proteomics, 2008, 70, 897-902.	2.4	13
149	Cell-Based Method Utilizing Fluorescent <i>Escherichia coli</i> Auxotrophs for Quantification of Multiple Amino Acids. Analytical Chemistry, 2014, 86, 2489-2496.	3.2	13
150	In-vitro cytotoxicity assessment of carbon-nanodot-conjugated Fe-aminoclay (CD-FeAC) and its bio-imaging applications. Journal of Nanobiotechnology, 2015, 13, 88.	4.2	13
151	Crowding and confinement effects on enzyme stability in mesoporous silicas. International Journal of Biological Macromolecules, 2020, 144, 118-126.	3.6	13
152	Nanoparticle-based detection technology for DNA analysis. Biotechnology and Bioprocess Engineering, 2003, 8, 221-226.	1.4	12
153	Effective Peroxidase-Like Activity of Co-Aminoclay [CoAC] and Its Application for Glucose Detection. Sensors, 2018, 18, 457.	2.1	12
154	Nucleic acid-based fluorescent methods for the determination of DNA repair enzyme activities: A review. Analytica Chimica Acta, 2019, 1060, 30-44.	2.6	12
155	A hairpin probe-mediated isothermal amplification method to detect target nucleic acid. Analytica Chimica Acta, 2020, 1114, 7-14.	2.6	12
156	A simple gold nanoparticle-mediated immobilization method to fabricate highly homogeneous DNA microarrays having higher capacities than those prepared by using conventional techniques. Nanotechnology, 2009, 20, 035607.	1.3	11
157	Cell-Based Galactosemia Diagnosis System Based on a Galactose Assay Using a Bioluminescent Escherichia coli Array. Analytical Chemistry, 2013, 85, 11083-11089.	3.2	11
158	An electrochemically reversible DNA switch. Electrochemistry Communications, 2013, 27, 100-103.	2.3	11
159	Sensitive detection of DNA from Chlamydia trachomatis by using flap endonuclease-assisted amplification and graphene oxide-based fluorescence signaling. Mikrochimica Acta, 2019, 186, 330.	2.5	11
160	Simple and label-free strategy for terminal transferase assay using a personal glucose meter. Chemical Communications, 2020, 56, 8912-8915.	2.2	11
161	Colorimetric detection of individual biothiols by tailor made reactions with silver nanoprisms. Scientific Reports, 2021, 11, 3937.	1.6	11
162	Multiplexed miRNA detection based on target-triggered transcription of multicolor fluorogenic RNA aptamers. Biosensors and Bioelectronics, 2022, 204, 114071.	5.3	11

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163	Gold Nanoparticle-Based Label-Free Detection of BRCA1 Mutations Utilizing DNA Ligation on DNA Microarray. Journal of Nanoscience and Nanotechnology, 2009, 9, 1019-1024.	0.9	10
164	A Sexually Transmitted Disease (STD) DNA chip for the diagnosis of genitourinary infections. Biosensors and Bioelectronics, 2011, 26, 4314-4319.	5.3	10
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