

De-Ming Kong

List of Publications by Year in descending order

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101
papers

4,257
citations

76196

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123241

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101
all docs

101
docs citations

101
times ranked

3795
citing authors

#	ARTICLE	IF	CITATIONS
1	Ag ⁺ and Cysteine Quantitation Based on G-Quadruplex~Hemin DNAzymes Disruption by Ag ⁺ . Analytical Chemistry, 2010, 82, 789-793.	3.2	195
2	Positive Effects of ATP on G-Quadruplex-Hemin DNAzyme-Mediated Reactions. Analytical Chemistry, 2010, 82, 6148-6153.	3.2	164
3	Three-dimensional DNA nanostructures to improve the hyperbranched hybridization chain reaction. Chemical Science, 2019, 10, 9758-9767.	3.7	124
4	Fluorescent Sensor for Monitoring Structural Changes of G-Quadruplexes and Detection of Potassium Ion. Analytical Chemistry, 2009, 81, 2678-2684.	3.2	114
5	Structure~function study of peroxidase-like G-quadruplex-hemin complexes. Analyst, The, 2010, 135, 321-326.	1.7	108
6	Discrimination of G~Quadruplexes from Duplex and Single~Stranded DNAs with Fluorescence and Energy~Transfer Fluorescence Spectra of Crystal Violet. Chemistry - A European Journal, 2009, 15, 901-909.	1.7	101
7	G-quadruplex DNAzyme-based Hg ²⁺ and cysteine sensors utilizing Hg ²⁺ -mediated oligonucleotide switching. Biosensors and Bioelectronics, 2011, 27, 148-152.	5.3	95
8	A Pharmacological Chaperone Molecule Induces Cancer Cell Death by Restoring Tertiary DNA Structures in Mutant hTERT Promoters. Journal of the American Chemical Society, 2016, 138, 13673-13692.	6.6	91
9	Oxidative DNA cleavage by Schiff base tetraazamacrocyclic oxamido nickel(II) complexes. Journal of Inorganic Biochemistry, 2008, 102, 824-832.	1.5	90
10	Amplified detection of DNA ligase and polynucleotide kinase/phosphatase on the basis of enrichment of catalytic G-quadruplex DNAzyme by rolling circle amplification. Biosensors and Bioelectronics, 2014, 55, 133-138.	5.3	88
11	Mutually Exclusive Formation of G-Quadruplex and i-Motif Is a General Phenomenon Governed by Steric Hindrance in Duplex DNA. Biochemistry, 2016, 55, 2291-2299.	1.2	87
12	Two cationic porphyrin isomers showing different multimeric G-quadruplex recognition specificity against monomeric G-quadruplexes. Nucleic Acids Research, 2014, 42, 8719-8731.	6.5	86
13	Peroxidase activity~structure relationship of the intermolecular four-stranded G-quadruplex~hemin complexes and their application in Hg ²⁺ ion detection. Talanta, 2009, 80, 459-465.	2.9	81
14	Specific recognition and stabilization of monomeric and multimeric G-quadruplexes by cationic porphyrin TMPipEOPP under molecular crowding conditions. Nucleic Acids Research, 2013, 41, 4324-4335.	6.5	77
15	Terminal Deoxynucleotidyl Transferase and T7 Exonuclease-Aided Amplification Strategy for Ultrasensitive Detection of Uracil-DNA Glycosylase. Analytical Chemistry, 2018, 90, 8629-8634.	3.2	77
16	Sensitive fluorescent detection of DNA methyltransferase using nicking endonuclease-mediated multiple primers-like rolling circle amplification. Biosensors and Bioelectronics, 2017, 91, 417-423.	5.3	76
17	G-quadruplex fluorescent probe-mediated real-time rolling circle amplification strategy for highly sensitive microRNA detection. Analytica Chimica Acta, 2016, 943, 114-122.	2.6	75
18	DNA nanostructure-based nucleic acid probes: construction and biological applications. Chemical Science, 2021, 12, 7602-7622.	3.7	74

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19	Turn-on™ detection of Hg ²⁺ ion using a peroxidase-like split G-quadruplex-hemin DNAzyme. <i>Analyst, The</i> , 2010, 135, 545.	1.7	72
20	Optimization of strand displacement amplification-sensitized G-quadruplex DNAzyme-based sensing system and its application in activity detection of uracil-DNA glycosylase. <i>Biosensors and Bioelectronics</i> , 2016, 77, 971-977.	5.3	71
21	Signal amplification and output of CRISPR/Cas-based biosensing systems: A review. <i>Analytica Chimica Acta</i> , 2021, 1185, 338882.	2.6	69
22	CRISPR/Cas12a-based dual amplified biosensing system for sensitive and rapid detection of polynucleotide kinase/phosphatase. <i>Biosensors and Bioelectronics</i> , 2020, 168, 112556.	5.3	68
23	Dinuclear Hg ^{II} tetracarbene complex-triggered aggregation-induced emission for rapid and selective sensing of Hg ²⁺ and organomercury species. <i>Chemical Science</i> , 2019, 10, 4220-4226.	3.7	66
24	Terminal deoxynucleotidyl transferase combined CRISPR-Cas12a amplification strategy for ultrasensitive detection of uracil-DNA glycosylase with zero background. <i>Biosensors and Bioelectronics</i> , 2021, 171, 112734.	5.3	66
25	Characterization of the G-quadruplex structure of a catalytic DNA with peroxidase activity. <i>Biopolymers</i> , 2009, 91, 331-339.	1.2	65
26	Crystal violet-G-quadruplex complexes as fluorescent sensors for homogeneous detection of potassium ion. <i>Biosensors and Bioelectronics</i> , 2009, 25, 88-93.	5.3	63
27	Sensitive dual DNAzymes-based sensors designed by grafting self-blocked G-quadruplex DNAzymes to the substrates of metal ion-triggered DNA/RNA-cleaving DNAzymes. <i>Biosensors and Bioelectronics</i> , 2012, 38, 331-336.	5.3	63
28	Quantitative detection of Ag ⁺ and cysteine using G-quadruplex-hemin DNAzymes. <i>Analyst, The</i> , 2010, 135, 1253.	1.7	61
29	Highly Integrated, Biostable, and Self-Powered DNA Motor Enabling Autonomous Operation in Living Bodies. <i>Analytical Chemistry</i> , 2019, 91, 5244-5251.	3.2	58
30	Label-free thioflavin T/G-quadruplex-based real-time strand displacement amplification for biosensing applications. <i>Biosensors and Bioelectronics</i> , 2016, 86, 811-817.	5.3	54
31	An integrated-molecular-beacon based multiple exponential strand displacement amplification strategy for ultrasensitive detection of DNA methyltransferase activity. <i>Chemical Science</i> , 2019, 10, 2290-2297.	3.7	54
32	Tetraphenylethene Derivatives with Different Numbers of Positively Charged Side Arms have Different Multimeric G-Quadruplex Recognition Specificity. <i>Chemistry - A European Journal</i> , 2015, 21, 13253-13260.	1.7	53
33	Facile Removal of Phytochromes and Efficient Recovery of Pesticides Using Heteropore Covalent Organic Framework-Based Magnetic Nanospheres and Electrospun Films. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 20922-20932.	4.0	53
34	Divalent cations and molecular crowding buffers stabilize G-triplex at physiologically relevant temperatures. <i>Scientific Reports</i> , 2015, 5, 9255.	1.6	51
35	Label-Free Telomerase Detection in Single Cell Using a Five-Base Telomerase Product-Triggered Exponential Rolling Circle Amplification Strategy. <i>ACS Sensors</i> , 2019, 4, 1090-1096.	4.0	51
36	Biostable L-DNA-Templated Aptamer-Silver Nanoclusters for Cell-Type-Specific Imaging at Physiological Temperature. <i>Analytical Chemistry</i> , 2016, 88, 10800-10804.	3.2	50

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37	A ZnO-gated porphyrinic metal-organic framework-based drug delivery system for targeted bimodal cancer therapy. <i>Journal of Materials Chemistry B</i> , 2018, 6, 7898-7907.	2.9	50
38	A New Cationic Porphyrin Derivative (TMPipEOPP) with Large Side Arm Substituents: A Highly Selective G-Quadruplex Optical Probe. <i>PLoS ONE</i> , 2012, 7, e35586.	1.1	47
39	A Rapid and Facile Detection for Specific Small-Sized Amino Acids Based on Target-Triggered Destruction of Metal Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 236-243.	4.0	44
40	G-Quadruplex/Porphyrin Composite Photosensitizer: A Facile Way to Promote Absorption Redshift and Photodynamic Therapy Efficacy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13158-13167.	4.0	44
41	A new method for the study of G-quadruplex ligands. <i>Analyst</i> , 2008, 133, 1158.	1.7	41
42	pH-Controlled Intracellular in Situ Reversible Assembly of a Photothermal Agent for Smart Chemo-Photothermal Synergetic Therapy and ATP Imaging. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 39624-39632.	4.0	41
43	Photoluminescent sensing for acidic amino acids based on the disruption of graphene quantum dots/europium ions aggregates. <i>Biosensors and Bioelectronics</i> , 2015, 65, 204-210.	5.3	40
44	MnO ₂ nanosheets as a carrier and accelerator for improved live-cell biosensing application of CRISPR/Cas12a. <i>Chemical Science</i> , 2022, 13, 4364-4371.	3.7	39
45	Amplified detection of genome-containing biological targets using terminal deoxynucleotidyl transferase-assisted rolling circle amplification. <i>Chemical Communications</i> , 2018, 54, 682-685.	2.2	38
46	Terminal Deoxynucleotidyl Transferase-Catalyzed Preparation of pH-Responsive DNA Nanocarriers for Tumor-Targeted Drug Delivery and Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14684-14692.	4.0	38
47	Real-time monitoring of rolling circle amplification using aggregation-induced emission: applications in biological detection. <i>Chemical Communications</i> , 2015, 51, 16518-16521.	2.2	36
48	Green synthesis of covalent organic frameworks based on reaction media. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1253-1267.	3.2	36
49	A facile fluorescence method for versatile biomolecular detection based on pristine Fe ₂ O ₃ nanoparticle-induced fluorescence quenching. <i>Biosensors and Bioelectronics</i> , 2015, 68, 239-244.	5.3	35
50	Ultrasensitive, label-free detection of T4 ligase and T4 polynucleotide kinase based on target-triggered hyper-branched rolling circle amplification. <i>Sensors and Actuators B: Chemical</i> , 2018, 260, 70-77.	4.0	33
51	Nanolantern-Based DNA Probe and Signal Amplifier for Tumor-Related Biomarker Detection in Living Cells. <i>Analytical Chemistry</i> , 2019, 91, 13165-13173.	3.2	33
52	A simple, post-additional antioxidant capacity assay using adenosine triphosphate-stabilized 2,2'-azino-bis(3-ethylbenzothiazoline)-6-sulfonic acid (ABTS) radical cation in a G-quadruplex DNAzyme catalyzed ABTS-H ₂ O ₂ system. <i>Biosensors and Bioelectronics</i> , 2012, 35, 407-412.	5.3	32
53	Development of the DNA-based biosensors for high performance in detection of molecular biomarkers: More rapid, sensitive, and universal. <i>Biosensors and Bioelectronics</i> , 2022, 197, 113739.	5.3	32
54	Simple synthesis of carboxyl-functionalized upconversion nanoparticles for biosensing and bioimaging applications. <i>Talanta</i> , 2016, 147, 207-212.	2.9	31

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55	Colorimetric and Fluorescent Bimodal Ratiometric Probes for pH Sensing of Living Cells. <i>Chemistry - an Asian Journal</i> , 2015, 10, 1304-1310.	1.7	30
56	Water soluble cationic porphyrin showing pH-dependent optical responses to G-quadruplexes: Applications in pH-sensing and DNA logic gate. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 179-189.	4.0	30
57	Development of small molecule biosensors by coupling the recognition of the bacterial allosteric transcription factor with isothermal strand displacement amplification. <i>Chemical Communications</i> , 2018, 54, 4774-4777.	2.2	30
58	Terminal deoxynucleotidyl transferase-activated nicking enzyme amplification reaction for specific and sensitive detection of DNA methyltransferase and polynucleotide kinase. <i>Biosensors and Bioelectronics</i> , 2019, 145, 111700.	5.3	30
59	A modified exponential amplification reaction (EXPAR) with an improved signal-to-noise ratio for ultrasensitive detection of polynucleotide kinase. <i>Chemical Communications</i> , 2019, 55, 7611-7614.	2.2	30
60	Factors influencing the performance of G-quadruplex DNAzyme-based sensors. <i>Methods</i> , 2013, 64, 199-204.	1.9	29
61	Dual functional Phi29 DNA polymerase-triggered exponential rolling circle amplification for sequence-specific detection of target DNA embedded in long-stranded genomic DNA. <i>Scientific Reports</i> , 2017, 7, 6263.	1.6	28
62	Asymmetric Cationic Porphyrin as a New G-Quadruplex Probe with Wash-Free Cancer-Targeted Imaging Ability Under Acidic Microenvironments. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13350-13360.	4.0	28
63	Reliable FRET-ON imaging of telomerase in living cells by a tetrahedral DNA nanoprobe integrated with structure-switchable molecular beacon. <i>Sensors and Actuators B: Chemical</i> , 2020, 312, 127943.	4.0	28
64	Cationic porphyrins with large side arm substituents as resonance light scattering ratiometric probes for specific recognition of nucleic acid G-quadruplexes. <i>Nucleic Acids Research</i> , 2019, 47, 2727-2738.	6.5	26
65	Green Layer-by-Layer Assembly of Porphyrin/G-Quadruplex-Based Near-Infrared Nanocomposite Photosensitizer with High Biocompatibility and Bioavailability. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7575-7585.	4.0	22
66	Stable, polyvalent aptamer-conjugated near-infrared fluorescent nanocomposite for high-performance cancer cell-targeted imaging and therapy. <i>Journal of Materials Chemistry B</i> , 2017, 5, 9229-9237.	2.9	21
67	Ultrasensitive ratiometric detection of Pb ²⁺ using DNA tetrahedron-mediated hyperbranched hybridization chain reaction. <i>Analytica Chimica Acta</i> , 2021, 1147, 170-177.	2.6	21
68	A water-soluble, cationic bis-porphyrin exhibiting a more sensitive fluorescent response to Cu ²⁺ relative to its monomeric counterpart. <i>Sensors and Actuators B: Chemical</i> , 2017, 247, 179-187.	4.0	18
69	DNA-Based pH-Responsive Core-Shell Drug Nanocarrier for Tumor-Targeted Chemo-Photodynamic Therapy. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000292.	1.9	18
70	DNA nanolantern-mediated catalytic hairpin assembly nanoamplifiers for simultaneous detection of multiple microRNAs. <i>Talanta</i> , 2022, 236, 122846.	2.9	17
71	SiO ₂ templates-derived hierarchical porous COFs sample pretreatment tool for non-targeted analysis of chemicals in foods. <i>Journal of Hazardous Materials</i> , 2022, 432, 128705.	6.5	17
72	Real-time PCR detection of telomerase activity using specific molecular beacon probes. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 699-709.	1.9	16

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73	Simple synthesis of amino acid-functionalized hydrophilic upconversion nanoparticles capped with both carboxyl and amino groups for bimodal imaging. <i>Journal of Materials Chemistry B</i> , 2016, 4, 3351-3357.	2.9	15
74	Dual enzyme-assisted one-step isothermal real-time amplification assay for ultrasensitive detection of polynucleotide kinase activity. <i>Chemical Communications</i> , 2018, 54, 13841-13844.	2.2	15
75	Controllable synthesis of uniform large-sized spherical covalent organic frameworks for facile sample pretreatment and as naked-eye indicator. <i>Talanta</i> , 2022, 236, 122829.	2.9	15
76	Simple, PCR-free telomerase activity detection using G-quadruplex-hemin DNAzyme. <i>RSC Advances</i> , 2015, 5, 6475-6480.	1.7	14
77	Molecular logic gates based on DNA tweezers responsive to multiplex restriction endonucleases. <i>RSC Advances</i> , 2016, 6, 38315-38320.	1.7	13
78	Water-Soluble Cationic Metalloporphyrins: Specific G-Quadruplex-Stabilizing Ability and Reversible Chirality of Aggregates Induced by AT-Rich DNA. <i>Inorganic Chemistry</i> , 2017, 56, 6330-6342.	1.9	13
79	The Preparation of CuInS ₂ -ZnS-Glutathione Quantum Dots and Their Application on the Sensitive Determination of Cytochrome <i>c</i> and Imaging of HeLa Cells. <i>ACS Omega</i> , 2021, 6, 17501-17509.	1.6	13
80	“RESET” Effect: Random Extending Sequences Enhance the Trans-Cleavage Activity of CRISPR/Cas12a. <i>Analytical Chemistry</i> , 2022, 94, 8050-8057.	3.2	11
81	A water-soluble cationic porphyrin showing pH-dependent G-quadruplex recognition specificity and DNA photocleavage activity. <i>RSC Advances</i> , 2015, 5, 47709-47717.	1.7	10
82	DNA nanolatern-based split aptamer probes for <i>in situ</i> ATP imaging in living cells and lighting up mitochondria. <i>Analyst</i> , 2021, 146, 2600-2608.	1.7	10
83	DNA nanolatern as biocompatible drug carrier for simple preparation of a porphyrin/G-quadruplex nanocomposite photosensitizer with high photodynamic efficacy. <i>Materials Chemistry Frontiers</i> , 2021, 5, 3139-3148.	3.2	10
84	Heteropore covalent organic framework-based composite membrane prepared by <i>in situ</i> growth on non-woven fabric for sample pretreatment of food non-targeted analysis. <i>Mikrochimica Acta</i> , 2021, 188, 235.	2.5	10
85	Chiral Interaction Is a Decisive Factor To Replace <i>d</i> -DNA with <i>l</i> -DNA Aptamers. <i>Analytical Chemistry</i> , 2020, 92, 6470-6477.	3.2	9
86	Reversible assembly/disassembly of DNA frames and applications in logic design, ratiometric sensing and bioimaging. <i>Sensors and Actuators B: Chemical</i> , 2021, 330, 129335.	4.0	9
87	Trifunctional integrated DNA-based universal sensing platform for detection of diverse biomolecules in one-pot isothermal exponential amplification mode. <i>Chemical Communications</i> , 2019, 55, 7603-7606.	2.2	8
88	Isothermal cross-boosting extension-nicking reaction mediated exponential signal amplification for ultrasensitive detection of polynucleotide kinase. <i>Analyst</i> , 2020, 145, 3742-3748.	1.7	7
89	Nonenzymatic catalytic assembly of valency-controlled DNA architectures for nanoparticles and live cell assembly. <i>Chemical Communications</i> , 2021, 57, 6760-6763.	2.2	7
90	Oxidative Cleavage-Based Three-Dimensional DNA Biosensor for Ratiometric Detection of Hypochlorous Acid and Myeloperoxidase. <i>Analytical Chemistry</i> , 2021, 93, 16231-16239.	3.2	7

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91	General Sensor Design Strategy Based on G-Quadruplex-Hemin DNazymes. <i>Analytical Letters</i> , 2011, 44, 2582-2592.	1.0	6
92	Highly specific G-quadruplex recognition covering physiological pH range by a new water-soluble cationic porphyrin with low self-aggregation tendency. <i>Dyes and Pigments</i> , 2017, 145, 404-417.	2.0	6
93	Chemical-biological approaches for the direct regulation of cell-cell aggregation. <i>Aggregate</i> , 2022, 3, .	5.2	6
94	Label-free and sensitive detection of uracil-DNA glycosylase using exponential real-time rolling circle amplification. <i>Analytical Methods</i> , 2018, 10, 2405-2410.	1.3	5
95	Self-paired dumbbell DNA -assisted simple preparation of stable circular DNAzyme and its application in Pb ²⁺ sensor. <i>Analytica Chimica Acta</i> , 2021, 1175, 338733.	2.6	5
96	Metal organic frameworks as sacrificial templates for preparation of hierarchical covalent organic frameworks enabling ultrafast sample treatment in nontargeted food safety analysis. <i>Chemical Engineering Journal</i> , 2021, 425, 130673.	6.6	4
97	Covalent organic polymers with solid-state dual-color fluorescence tunable by ultraviolet irradiation. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1236-1245.	2.7	4
98	A facile fluorescence method for endonuclease detection using exonuclease III-aided signal amplification of a molecular beacon. <i>RSC Advances</i> , 2014, 4, 53993-53998.	1.7	3
99	A fluorescent biosensor for highly specific and ultrasensitive detection of adenosine triphosphate based on ligation-triggered branched rolling circle amplification. <i>Analytical Methods</i> , 2019, 11, 4629-4636.	1.3	2
100	Meta-DNA Strategy to Assemble DNA Structures in Submicrometre and Micrometre Scale. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 1151-1152.	1.3	0
101	Chiral Assembly and Recognition of Seven Copper (II) Coordination Polymers from Tartaric Acid Derivative Ligands. <i>Chemistry - an Asian Journal</i> , 2022, , .	1.7	0