

# De-Ming Kong

List of Publications by Year  
in descending order

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101  
papers

4,257  
citations

76326

40  
h-index

123424

61  
g-index

101  
all docs

101  
docs citations

101  
times ranked

3795  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	5.5	15
2	DNA nanolatern-mediated catalytic hairpin assembly nanoamplifiers for simultaneous detection of multiple microRNAs. <i>Talanta</i> , 2022, 236, 122846.	5.5	17
3	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.	10.1	32
4	Covalent organic polymers with solid-state dual-color fluorescence tunable by ultraviolet irradiation. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1236-1245.	5.5	4
5	Chemicalâ€“biological approaches for the direct regulation of cellâ€“cell aggregation. <i>Aggregate</i> , 2022, 3, .	9.9	6
6	MnO <sub>2</sub> nanosheets as a carrier and accelerator for improved live-cell biosensing application of CRISPR/Cas12a. <i>Chemical Science</i> , 2022, 13, 4364-4371.	7.4	39
7	SiO <sub>2</sub> 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.	12.4	17
8	Chiral Assembly and Recognition of Seven Copper (II) Coordination Polymers from Tartaric Acid Derivative Ligands. <i>Chemistry - an Asian Journal</i> , 2022, , .	3.3	0
9	â€œRESEtâ€•Effect: Random Extending Sequences Enhance the Trans-Cleavage Activity of CRISPR/Cas12a. <i>Analytical Chemistry</i> , 2022, 94, 8050-8057.	6.5	11
10	Green synthesis of covalent organic frameworks based on reaction media. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1253-1267.	5.9	36
11	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.	10.1	66
12	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.	3.5	10
13	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.	5.9	10
14	DNA nanostructure-based nucleic acid probes: construction and biological applications. <i>Chemical Science</i> , 2021, 12, 7602-7622.	7.4	74
15	Nonenzymatic catalytic assembly of valency-controlled DNA architectures for nanoparticles and live cell assembly. <i>Chemical Communications</i> , 2021, 57, 6760-6763.	4.1	7
16	Ultrasensitive ratiometric detection of Pb <sup>2+</sup> using DNA tetrahedron-mediated hyperbranched hybridization chain reaction. <i>Analytica Chimica Acta</i> , 2021, 1147, 170-177.	5.4	21
17	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.	7.8	9
18	Heteropore covalent organic framework-based composite membrane prepared by in situ growth on non-woven fabric for sample pretreatment of food non-targeted analysis. <i>Mikrochimica Acta</i> , 2021, 188, 235.	5.0	10

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19	The Preparation of CuInS <sub>2</sub> -ZnS-Glutathione Quantum Dots and Their Application on the Sensitive Determination of Cytochrome <i>c</i> and Imaging of HeLa Cells. ACS Omega, 2021, 6, 17501-17509.	3.5	13
20	Signal amplification and output of CRISPR/Cas-based biosensing systems: A review. Analytica Chimica Acta, 2021, 1185, 338882.	5.4	69
21	Self-paired dumbbell DNA -assisted simple preparation of stable circular DNAzyme and its application in Pb <sup>2+</sup> sensor. Analytica Chimica Acta, 2021, 1175, 338733.	5.4	5
22	Metal organic frameworks as sacrificial templates for preparation of hierarchical covalent organic frameworks enabling ultrafast sample treatment in nontargeted food safety analysis. Chemical Engineering Journal, 2021, 425, 130673.	12.7	4
23	Oxidative Cleavage-Based Three-Dimensional DNA Biosensor for Ratiometric Detection of Hypochlorous Acid and Myeloperoxidase. Analytical Chemistry, 2021, 93, 16231-16239.	6.5	7
24	CRISPR/Cas12a-based dual amplified biosensing system for sensitive and rapid detection of polynucleotide kinase/phosphatase. Biosensors and Bioelectronics, 2020, 168, 112556.	10.1	68
25	Meta-DNA Strategy to Assemble DNA Structures in Submicrometre and Micrometre Scale. Chemical Research in Chinese Universities, 2020, 36, 1151-1152.	2.6	0
26	DNA-Based pH-Responsive Core-Shell Drug Nanocarrier for Tumor-Targeted Chemo-Photodynamic Therapy. Advanced Materials Interfaces, 2020, 7, 2000292.	3.7	18
27	Reliable FRET-ON imaging of telomerase in living cells by a tetrahedral DNA nanoprobe integrated with structure-switchable molecular beacon. Sensors and Actuators B: Chemical, 2020, 312, 127943.	7.8	28
28	Green Layer-by-Layer Assembly of Porphyrin/G-Quadruplex-Based Near-Infrared Nanocomposite Photosensitizer with High Biocompatibility and Bioavailability. ACS Applied Materials & Interfaces, 2020, 12, 7575-7585.	8.0	22
29	Isothermal cross-boosting extension-nicking reaction mediated exponential signal amplification for ultrasensitive detection of polynucleotide kinase. Analyst, The, 2020, 145, 3742-3748.	3.5	7
30	Facile Removal of Phytochromes and Efficient Recovery of Pesticides Using Heteropore Covalent Organic Framework-Based Magnetic Nanospheres and Electrospun Films. ACS Applied Materials & Interfaces, 2020, 12, 20922-20932.	8.0	53
31	Chiral Interaction Is a Decisive Factor To Replace <i>d</i> -DNA with <i>l</i> -DNA Aptamers. Analytical Chemistry, 2020, 92, 6470-6477.	6.5	9
32	A fluorescent biosensor for highly specific and ultrasensitive detection of adenosine triphosphate based on ligation-triggered branched rolling circle amplification. Analytical Methods, 2019, 11, 4629-4636.	2.7	2
33	Three-dimensional DNA nanostructures to improve the hyperbranched hybridization chain reaction. Chemical Science, 2019, 10, 9758-9767.	7.4	124
34	Nanolantern-Based DNA Probe and Signal Amplifier for Tumor-Related Biomarker Detection in Living Cells. Analytical Chemistry, 2019, 91, 13165-13173.	6.5	33
35	Terminal deoxynucleotidyl transferase-activated nicking enzyme amplification reaction for specific and sensitive detection of DNA methyltransferase and polynucleotide kinase. Biosensors and Bioelectronics, 2019, 145, 111700.	10.1	30
36	pH-Controlled Intracellular in Situ Reversible Assembly of a Photothermal Agent for Smart Chemo-Photothermal Synergetic Therapy and ATP Imaging. ACS Applied Materials & Interfaces, 2019, 11, 39624-39632.	8.0	41

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37	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.	7.4	54
38	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.	4.1	30
39	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.	4.1	8
40	G-Quadruplex/Porphyrin Composite Photosensitizer: A Facile Way to Promote Absorption Redshift and Photodynamic Therapy Efficacy. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 13158-13167.	8.0	44
41	Highly Integrated, Biostable, and Self-Powered DNA Motor Enabling Autonomous Operation in Living Bodies. <i>Analytical Chemistry</i> , 2019, 91, 5244-5251.	6.5	58
42	Dinuclear Hg <sup>II</sup> tetracarbene complex-triggered aggregation-induced emission for rapid and selective sensing of Hg <sup>2+</sup> and organomercury species. <i>Chemical Science</i> , 2019, 10, 4220-4226.	7.4	66
43	Terminal Deoxynucleotidyl Transferase-Catalyzed Preparation of pH-Responsive DNA Nanocarriers for Tumor-Targeted Drug Delivery and Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 14684-14692.	8.0	38
44	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.	7.8	51
45	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.	14.5	26
46	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.	4.1	30
47	Asymmetric Cationic Porphyrin as a New G-Quadruplex Probe with Wash-Free Cancer-Targeted Imaging Ability Under Acidic Microenvironments. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 13350-13360.	8.0	28
48	Amplified detection of genome-containing biological targets using terminal deoxynucleotidyl transferase-assisted rolling circle amplification. <i>Chemical Communications</i> , 2018, 54, 682-685.	4.1	38
49	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.	7.8	33
50	Label-free and sensitive detection of uracil-DNA glycosylase using exponential real-time rolling circle amplification. <i>Analytical Methods</i> , 2018, 10, 2405-2410.	2.7	5
51	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.	4.1	15
52	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.	5.8	50
53	Terminal Deoxynucleotidyl Transferase and T7 Exonuclease-Aided Amplification Strategy for Ultrasensitive Detection of Uracil-DNA Glycosylase. <i>Analytical Chemistry</i> , 2018, 90, 8629-8634.	6.5	77
54	Sensitive fluorescent detection of DNA methyltransferase using nicking endonuclease-mediated multiple primers-like rolling circle amplification. <i>Biosensors and Bioelectronics</i> , 2017, 91, 417-423.	10.1	76

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55	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.	4.0	13
56	A water-soluble, cationic bis-porphyrin exhibiting a more sensitive fluorescent response to Cu <sup>2+</sup> relative to its monomeric counterpart. <i>Sensors and Actuators B: Chemical</i> , 2017, 247, 179-187.	7.8	18
57	A Rapid and Facile Detection for Specific Small-Sized Amino Acids Based on Target-Triggered Destruction of Metal Organic Frameworks. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 236-243.	8.0	44
58	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.	3.3	28
59	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.	5.8	21
60	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.	3.7	6
61	Mutually Exclusive Formation of G-Quadruplex and i-Motif Is a General Phenomenon Governed by Steric Hindrance in Duplex DNA. <i>Biochemistry</i> , 2016, 55, 2291-2299.	2.5	87
62	Molecular logic gates based on DNA tweezers responsive to multiplex restriction endonucleases. <i>RSC Advances</i> , 2016, 6, 38315-38320.	3.6	13
63	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.	5.8	15
64	G-quadruplex fluorescent probe-mediated real-time rolling circle amplification strategy for highly sensitive microRNA detection. <i>Analytica Chimica Acta</i> , 2016, 943, 114-122.	5.4	75
65	Label-free thioflavin T/G-quadruplex-based real-time strand displacement amplification for biosensing applications. <i>Biosensors and Bioelectronics</i> , 2016, 86, 811-817.	10.1	54
66	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.	7.8	30
67	A Pharmacological Chaperone Molecule Induces Cancer Cell Death by Restoring Tertiary DNA Structures in Mutant hTERT Promoters. <i>Journal of the American Chemical Society</i> , 2016, 138, 13673-13692.	13.7	91
68	Biostable L-DNA-Templated Aptamer-Silver Nanoclusters for Cell-Type-Specific Imaging at Physiological Temperature. <i>Analytical Chemistry</i> , 2016, 88, 10800-10804.	6.5	50
69	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.	10.1	71
70	Simple synthesis of carboxyl-functionalized upconversion nanoparticles for biosensing and bioimaging applications. <i>Talanta</i> , 2016, 147, 207-212.	5.5	31
71	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.	3.3	53
72	A water-soluble cationic porphyrin showing pH-dependent G-quadruplex recognition specificity and DNA photocleavage activity. <i>RSC Advances</i> , 2015, 5, 47709-47717.	3.6	10

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73	A facile fluorescence method for versatile biomolecular detection based on pristine $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> nanoparticle-induced fluorescence quenching. <i>Biosensors and Bioelectronics</i> , 2015, 68, 239-244.	10.1	35
74	Divalent cations and molecular crowding buffers stabilize G-triplex at physiologically relevant temperatures. <i>Scientific Reports</i> , 2015, 5, 9255.	3.3	51
75	Simple, PCR-free telomerase activity detection using G-quadruplex-hemin DNAzyme. <i>RSC Advances</i> , 2015, 5, 6475-6480.	3.6	14
76	Colorimetric and Fluorescent Bimodal Ratiometric Probes for pH Sensing of Living Cells. <i>Chemistry - an Asian Journal</i> , 2015, 10, 1304-1310.	3.3	30
77	Real-time monitoring of rolling circle amplification using aggregation-induced emission: applications in biological detection. <i>Chemical Communications</i> , 2015, 51, 16518-16521.	4.1	36
78	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.	10.1	40
79	Two cationic porphyrin isomers showing different multimeric G-quadruplex recognition specificity against monomeric G-quadruplexes. <i>Nucleic Acids Research</i> , 2014, 42, 8719-8731.	14.5	86
80	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.	3.6	3
81	Amplified detection of DNA ligase and polynucleotide kinase/phosphatase on the basis of enrichment of catalytic G-quadruplex DNAzyme by rolling circle amplification. <i>Biosensors and Bioelectronics</i> , 2014, 55, 133-138.	10.1	88
82	Factors influencing the performance of G-quadruplex DNAzyme-based sensors. <i>Methods</i> , 2013, 64, 199-204.	3.8	29
83	Specific recognition and stabilization of monomeric and multimeric G-quadruplexes by cationic porphyrin TMPipEOPP under molecular crowding conditions. <i>Nucleic Acids Research</i> , 2013, 41, 4324-4335.	14.5	77
84	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.	10.1	63
85	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.	2.5	47
86	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 <sub>2</sub> O <sub>2</sub> system. <i>Biosensors and Bioelectronics</i> , 2012, 35, 407-412.	10.1	32
87	General Sensor Design Strategy Based on G-Quadruplex-Hemin DNAzymes. <i>Analytical Letters</i> , 2011, 44, 2582-2592.	1.8	6
88	G-quadruplex DNAzyme-based Hg <sup>2+</sup> and cysteine sensors utilizing Hg <sup>2+</sup> -mediated oligonucleotide switching. <i>Biosensors and Bioelectronics</i> , 2011, 27, 148-152.	10.1	95
89	Structure-function study of peroxidase-like G-quadruplex-hemin complexes. <i>Analyst</i> , 2010, 135, 321-326.	3.5	108
90	Positive Effects of ATP on G-Quadruplex-Hemin DNAzyme-Mediated Reactions. <i>Analytical Chemistry</i> , 2010, 82, 6148-6153.	6.5	164

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91	“Turn-on” detection of Hg <sup>2+</sup> ion using a peroxidase-like split G-quadruplex-hemin DNAzyme. Analyst, The, 2010, 135, 545.	3.5	72
92	Ag <sup>+</sup> and Cysteine Quantitation Based on G-Quadruplex-Hemin DNAzymes Disruption by Ag <sup>+</sup> . Analytical Chemistry, 2010, 82, 789-793.	6.5	195
93	Quantitative detection of Ag <sup>+</sup> and cysteine using G-quadruplex-hemin DNAzymes. Analyst, The, 2010, 135, 1253.	3.5	61
94	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.	3.3	101
95	Characterization of the G-quadruplex structure of a catalytic DNA with peroxidase activity. Biopolymers, 2009, 91, 331-339.	2.4	65
96	Crystal violet-G-quadruplex complexes as fluorescent sensors for homogeneous detection of potassium ion. Biosensors and Bioelectronics, 2009, 25, 88-93.	10.1	63
97	Peroxidase activity-structure relationship of the intermolecular four-stranded G-quadruplex-hemin complexes and their application in Hg <sup>2+</sup> ion detection. Talanta, 2009, 80, 459-465.	5.5	81
98	Fluorescent Sensor for Monitoring Structural Changes of G-Quadruplexes and Detection of Potassium Ion. Analytical Chemistry, 2009, 81, 2678-2684.	6.5	114
99	Oxidative DNA cleavage by Schiff base tetraazamacrocyclic oxamido nickel(II) complexes. Journal of Inorganic Biochemistry, 2008, 102, 824-832.	3.5	90
100	A new method for the study of G-quadruplex ligands. Analyst, The, 2008, 133, 1158.	3.5	41
101	Real-time PCR detection of telomerase activity using specific molecular beacon probes. Analytical and Bioanalytical Chemistry, 2007, 388, 699-709.	3.7	16