Nongyue He

List of Publications by Year
in descending order

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Version: 2024-02-01

123 papers	5,453 citations	101543 36 h-index	88630 70 g-index
123 all docs	123 docs citations	123 times ranked	7289 citing authors

#	Article	IF	Citations
1	Injectable hydrogels for cartilage and bone tissue engineering. Bone Research, 2017, 5, 17014.	11.4	840
2	Current Progress in Gene Delivery Technology Based on Chemical Methods and Nano-carriers. Theranostics, 2014, 4, 240-255.	10.0	333
3	Point-of-care diagnostics for infectious diseases: From methods to devices. Nano Today, 2021, 37, 101092.	11.9	276
4	A Sensitive Aptasensor Based on a Hemin/Gâ€Quadruplexâ€Assisted Signal Amplification Strategy for Electrochemical Detection of Gastric Cancer Exosomes. Small, 2019, 15, e1900735.	10.0	242
5	Aptasensors for pesticide detection. Biosensors and Bioelectronics, 2019, 130, 174-184.	10.1	210
6	Recent advances in nano scaffolds for bone repair. Bone Research, 2016, 4, 16050.	11.4	195
7	Selection of HBsAg-Specific DNA Aptamers Based on Carboxylated Magnetic Nanoparticles and Their Application in the Rapid and Simple Detection of Hepatitis B Virus Infection. ACS Applied Materials & Interfaces, 2015, 7, 11215-11223.	8.0	153
8	Recent progresses in DNA nanostructure-based biosensors for detection of tumor markers. Biosensors and Bioelectronics, 2018, 109, 27-34.	10.1	149
9	An aptamer-based new method for competitive fluorescence detection of exosomes. Nanoscale, 2019, 11, 15589-15595.	5.6	131
10	Enhanced Radiosensitization of Gold Nanospikes via Hyperthermia in Combined Cancer Radiation and Photothermal Therapy. ACS Applied Materials & Interfaces, 2016, 8, 28480-28494.	8.0	124
11	Autophagy Modulated by Inorganic Nanomaterials. Theranostics, 2020, 10, 3206-3222.	10.0	121
12	A simple fluorescence aptasensor for gastric cancer exosome detection based on branched rolling circle amplification. Nanoscale, 2020, 12, 2445-2451.	5.6	117
13	Aptamer selection and applications for breast cancer diagnostics and therapy. Journal of Nanobiotechnology, 2017, 15, 81.	9.1	96
14	Action of Gold Nanospikes-Based Nanoradiosensitizers: Cellular Internalization, Radiotherapy, and Autophagy. ACS Applied Materials & Interfaces, 2017, 9, 31526-31542.	8.0	92
15	A review on methods for diagnosis of breast cancer cells and tissues. Cell Proliferation, 2020, 53, e12822.	5.3	87
16	Near-infrared light-induced dissociation of zeolitic imidazole framework-8 (ZIF-8) with encapsulated CuS nanoparticles and their application as a therapeutic nanoplatform. Chemical Communications, 2016, 52, 12210-12213.	4.1	78
17	Peroxidase-like activity of mesoporous silica encapsulated Pt nanoparticle and its application in colorimetric immunoassay. Analytica Chimica Acta, 2015, 862, 53-63.	5.4	74
18	An Aptamer-Based Probe for Molecular Subtyping of Breast Cancer. Theranostics, 2018, 8, 5772-5783.	10.0	63

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19	Progress in Selection and Biomedical Applications of Aptamers. Journal of Biomedical Nanotechnology, 2014, 10, 3043-3062.	1.1	60
20	Mass spectrometry-assisted gel-based proteomics in cancer biomarker discovery: approaches and application. Theranostics, 2017, 7, 3559-3572.	10.0	60
21	Molecular Engineeringâ€Based Aptamerâ€“Drug Conjugates with Accurate Tunability of Drug Ratios for Drug Combination Targeted Cancer Therapy. Angewandte Chemie - International Edition, 2019, 58, 11661-11665.	13.8	59
22	Applications of aptamers for chemistry analysis, medicine and food security. Science China Chemistry, 2015, 58, 1122-1130.	8.2	57
23	One-Step Synthesis of DNA Templated Water-Soluble Auâ€“Ag Bimetallic Nanoclusters for Ratiometric Fluorescence Detection of DNA. Journal of Biomedical Nanotechnology, 2018, 14, 150-160.	1.1	55
24	A metalâ€“phenolic network-based multifunctional nanocomposite with pH-responsive ROS generation and drug release for synergistic chemodynamic/photothermal/chemo-therapy. Journal of Materials Chemistry B, 2020, 8, 2177-2188.	5.8	54
25	A Novel Electrochemical Microfluidic Chip Combined with Multiple Biomarkers for Early Diagnosis of Gastric Cancer. Nanoscale Research Letters, 2015, 10, 477.	5.7	53
26	CRISPR-Cas13a mediated nanosystem for attomolar detection of canine parvovirus type 2. Chinese Chemical Letters, 2019, 30, 2201-2204.	9.0	49
27	A novel aptamer-based histochemistry assay for specific diagnosis of clinical breast cancer tissues. Chinese Chemical Letters, 2021, 32, 1726-1730.	9.0	49
28	Simultaneous detection of multiple viruses based on chemiluminescence and magnetic separation. Biomaterials Science, 2017, 5, 57-66.	5.4	48
29	A mini-review of embedded 3D printing: supporting media and strategies. Journal of Materials Chemistry B, 2020, 8, 10474-10486.	5.8	47
30	Highly Selective, Sensitive and Rapid Detection of Escherichia coli O157:H7 Using Duplex PCR and Magnetic Nanoparticle-Based Chemiluminescence Assay. Journal of Biomedical Nanotechnology, 2017, 13, 1243-1252.	1.1	46
31	Differentiating breast cancer molecular subtypes using a DNA aptamer selected against MCF-7 cells. Biomaterials Science, 2018, 6, 3152-3159.	5.4	43
32	Carbon nanosphere-based fluorescence aptasensor for targeted detection of breast cancer cell MCF-7. Talanta, 2018, 185, 113-117.	5.5	41
33	Fluorescence based Aptasensors for the determination of hepatitis B virus e antigen. Scientific Reports, 2016, 6, 31103.	3.3	40
34	Synthesis of aptamer-functionalized Ag nanoclusters for MCF-7 breast cancer cells imaging. Science China Chemistry, 2017, 60, 370-376.	8.2	40
35	Coating Carbon Nanosphere with Patchy Gold for Production of Highly Efficient Photothermal Agent. ACS Applied Materials & Interfaces, 2016, 8, 19321-19332.	8.0	37
36	A sample-in-digital-answer-out system for rapid detection and quantitation of infectious pathogens in bodily fluids. Analytical and Bioanalytical Chemistry, 2018, 410, 7019-7030.	3.7	37

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37	Copy Number Variation Analysis by Ligation-Dependent PCR Based on Magnetic Nanoparticles and Chemiluminescence. Theranostics, 2015, 5, 71-85.	10.0	36
38	Progress in exosome associated tumor markers and their detection methods. Molecular Biomedicine, 2020, 1, 3.	4.4	35
39	Rapid and Sensitive Detection of RNA Viruses Based on Reverse Transcription Loop-Mediated Isothermal Amplification, Magnetic Nanoparticles, and Chemiluminescence. Journal of Biomedical Nanotechnology, 2016, 12, 710-716.	1.1	34
40	Effects of the i-motif DNA loop on the fluorescence of silver nanoclusters. RSC Advances, 2016, 6, 22839-22844.	3.6	34
41	Highly sensitive fluorescence biosensor for intracellular telomerase detection based on a single patchy gold/carbon nanosphere via the combination of nanoflare and hybridization chain reaction. Biosensors and Bioelectronics, 2019, 137, 110-116.	10.1	34
42	A FITC-doped silica coated gold nanocomposite for both in vivo X-ray CT and fluorescence dual modal imaging. RSC Advances, 2014, 4, 51950-51959.	3.6	33
43	Label-free detection of DNA by combining gated mesoporous silica and catalytic signal amplification of platinum nanoparticles. Analyst, The, 2014, 139, 6088-6091.	3.5	33
44	The effects of multifunctional MiR-122-loaded graphene-gold composites on drug-resistant liver cancer. Journal of Nanobiotechnology, 2015, 13, 12.	9.1	33
45	Effective Integration of Targeted Tumor Imaging and Therapy Using Functionalized InP QDs with VEGFR2 Monoclonal Antibody and miR-92a Inhibitor. ACS Applied Materials & Interfaces, 2017, 9, 13068-13078.	8.0	33
46	Performance Evaluation of a Novel Sample Inâ€“Answer Out (SIAO) System Based on Magnetic Nanoparticles. Journal of Biomedical Nanotechnology, 2017, 13, 1619-1630.	1.1	32
47	Chemiluminescent Labels Released from Long Spacer Arm-Functionalized Magnetic Particles: A Novel Strategy for Ultrasensitive and Highly Selective Detection of Pathogen Infections. ACS Applied Materials & Interfaces, 2015, 7, 774-781.	8.0	31
48	Simultaneous extraction of DNA and RNA from Escherichia coli BL 21 based on silica-coated magnetic nanoparticles. Science China Chemistry, 2015, 58, 1774-1778.	8.2	30
49	Cellâ€specific biomarkers and targeted biopharmaceuticals for breast cancer treatment. Cell Proliferation, 2016, 49, 409-420.	5.3	30
50	A Portable Multi-Channel Turbidity System for Rapid Detection of Pathogens by Loop-Mediated Isothermal Amplification. Journal of Biomedical Nanotechnology, 2018, 14, 198-205.	1.1	30
51	Monitoring and detection of antibiotic residues in animal derived foods: Solutions using aptamers. Trends in Food Science and Technology, 2022, 125, 200-235.	15.1	29
52	Wet Chemical Synthesis of Silica Nanosheets via Ethyl Acetateâ€Mediated Hydrolysis of Silica Precursors and Their Applications. Small, 2017, 13, 1603369.	10.0	27
53	The aptamers generated from HepG2 cells. Science China Chemistry, 2017, 60, 786-792.	8.2	27
54	Chemiluminescence Analysis for HBV-DNA Hybridization Detection with Magnetic Nanoparticles Based DNA Extraction from Positive Whole Blood Samples. Journal of Biomedical Nanotechnology, 2013, 9, 267-273.	1.1	26

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55	A new method for improving the accuracy of miRNA detection with NaYF4:Yb,Er upconversion nanoparticles. Science China Chemistry, 2017, 60, 157-162.	8.2	25
56	Embedded 3D printing of multi-internal surfaces of hydrogels. Additive Manufacturing, 2020, 32, 101097.	3.0	25
57	Noninvasive Prenatal Paternity Testing (NIPAT) through Maternal Plasma DNA Sequencing: A Pilot Study. PLoS ONE, 2016, 11, e0159385.	2.5	25
58	The methods and advances of adaptive immune receptors repertoire sequencing. Theranostics, 2021, 11, 8945-8963.	10.0	22
59	Long Spacer Arm-Functionalized Magnetic Nanoparticle Platform for Enhanced Chemiluminescent Detection of Hepatitis B Virus. Journal of Biomedical Nanotechnology, 2014, 10, 3610-3619.	1.1	21
60	Biosynthetic Mechanism of Luminescent ZnO Nanocrystals in the Mammalian Blood Circulation and Their Functionalization for Tumor Therapy. ACS Applied Materials & Interfaces, 2018, 10, 105-113.	8.0	21
61	Applications of Aptamer-Bound Nanomaterials in Cancer Therapy. Biosensors, 2021, 11, 344.	4.7	19
62	Ultrasensitive quantitation of MicroRNAs via magnetic beads-based chemiluminesent assay. Science China Chemistry, 2016, 59, 1051-1058.	8.2	18
63	A new quality control method for lateral flow assay. Chinese Chemical Letters, 2018, 29, 1853-1856.	9.0	18
64	Development of Magnetic Nanoparticles Based Nucleic Acid Extraction Method and Application in Hepatitis C Virus Chemiluminescent Detection. Science of Advanced Materials, 2015, 7, 1233-1240.	0.7	18
65	Preparation and characterization of nanocrystalline Feâ€“Niâ€“Cr alloy electrodeposits on Fe substrate. Journal of Applied Electrochemistry, 2009, 39, 713-717.	2.9	17
66	Rapid Detection of DNA Methylation with a Novel Real-Time Fluorescence Recombinase-Aided Amplification Assay. Journal of Biomedical Nanotechnology, 2021, 17, 1364-1370.	1.1	17
67	Eight biomarkers on a novel strip for early diagnosis of acute myocardial infarction. Nanoscale Advances, 2020, 2, 1138-1143.	4.6	16
68	Programmable Biosensors Based on RNA-Guided CRISPR/Cas Endonuclease. Biological Procedures Online, 2022, 24, 2.	2.9	16
69	Precise discrimination of Luminal A breast cancer subtype using an aptamer in vitro and in vivo. Nanoscale, 2020, 12, 19689-19701.	5.6	15
70	Integrated and Automated, Sample-In to Result-Out, System for Nanotechnology-Based Detection of Infectious Pathogens. Nanoscience and Nanotechnology Letters, 2018, 10, 1423-1428.	0.4	15
71	Rapid detection of Pseudomonas aeruginosa based on lab-on-a-chip platform using immunomagnetic separation, light scattering, and machine learning. Analytica Chimica Acta, 2022, 1189, 339223.	5.4	15
72	Selection of a High-Affinity DNA Aptamer for the Recognition of Cadmium Ions. Journal of Biomedical Nanotechnology, 2021, 17, 2240-2246.	1.1	14

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73	Multifunctional Yolkâ€“Shell Mesoporous Silica Obtained via Selectively Etching the Shell: A Therapeutic Nanoplatform for Cancer Therapy. ACS Applied Materials & Interfaces, 2018, 10, 24440-24449.	8.0	13
74	Multiple chemiluminescence immunoassay detection of the concentration ratio of glycosylated hemoglobin A1c to total hemoglobin in whole blood samples. Analytica Chimica Acta, 2022, 1192, 339379.	5.4	13
75	Selected aptamer specially combing 5-8F cells based on automatic screening instrument. Chinese Chemical Letters, 2022, 33, 4208-4212.	9.0	13
76	Genotyping of <I>Pseudomonas aeruginosa</I> Type III Secretion System Using Magnetic Enrichment Multiplex Polymerase Chain Reaction and Chemiluminescence. Journal of Biomedical Nanotechnology, 2016, 12, 762-769.	1.1	12
77	Supramolecular Design of Highly Efficient Two-Component Molecular Hybrids toward Structure and Emission Properties Tailoring. Crystal Growth and Design, 2019, 19, 2772-2778.	3.0	12
78	A biotin-avidin-system-based virus-mimicking nanovaccine for tumor immunotherapy. Journal of Controlled Release, 2021, 332, 245-259.	9.9	12
79	Solid-Phase Hybridization Efficiency Improvement on the Magnetic Nanoparticle Surface by Using Dextran as Molecular Arms. Journal of Biomedical Nanotechnology, 2013, 9, 1945-1949.	1.1	11
80	Rapid Detection System for Hepatitis B Surface Antigen (HBsAg) Based on Immunomagnetic Separation, Multi-Angle Dynamic Light Scattering and Support Vector Machine. IEEE Access, 2020, 8, 107373-107386.	4.2	11
81	Prognostic Value of Machine Learning in Patients with Acute Myocardial Infarction. Journal of Cardiovascular Development and Disease, 2022, 9, 56.	1.6	11
82	Challenges and Future Expectations of Reversed Gene Therapy. Journal of Nanoscience and Nanotechnology, 2011, 11, 8634-8638.	0.9	10
83	Integration of Nucleic Acid Extraction Protocol with Automated Extractor for Multiplex Viral Detection. Journal of Nanoscience and Nanotechnology, 2017, 17, 862-870.	0.9	10
84	The Liquid Level Detection System Based on Pressure Sensor. Journal of Nanoscience and Nanotechnology, 2019, 19, 2049-2053.	0.9	10
85	Design of Rapid Bacterial Identification System Based on Scattering of Laser Light and Classification of Binned Plots. Journal of Nanoscience and Nanotechnology, 2020, 20, 4047-4056.	0.9	10
86	Research on Automated Nucleic Acid Extraction Instrument Based on Magnetic Nanoparticles Separation. Nanoscience and Nanotechnology Letters, 2018, 10, 60-68.	0.4	9
87	Application of Functional Microsphere in Human Hepatitis B Virus Surface Antigen Detection. Journal of Nanoscience and Nanotechnology, 2014, 14, 3348-3355.	0.9	8
88	Design and Implementation of Polymerase Chain Reaction Device for Aptamers Selection of Tumor Cells. Journal of Nanoscience and Nanotechnology, 2020, 20, 1332-1340.	0.9	8
89	Study on the Method of Isolating the Aptamer from the Surface of HepG2 Cells. Journal of Nanoscience and Nanotechnology, 2020, 20, 3373-3377.	0.9	8
90	Determination of Paracetamol with Porous Electrochemical Sensor. Journal of Biomedical Nanotechnology, 2009, 5, 607-610.	1.1	7

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91	Design and Implementation of High-Throughput Magnetic Separation Module for Automated Nucleic Acid Detection System Based on Magnetic Nano-Beads. Journal of Nanoscience and Nanotechnology, 2020, 20, 2138-2143.	0.9	7
92	Highly Precise and Fast Polymerase Chain Reaction Thermal Cycling Module with a Novel Integrated Temperature Control Strategy. Nanoscience and Nanotechnology Letters, 2018, 10, 23-31.	0.4	7
93	Rapid Capturing and Chemiluminescent Sensing of Programmed Death Ligand-1 Expressing Extracellular Vesicles. Biosensors, 2022, 12, 281.	4.7	7
94	Importance of Polyacrylamide Hydrogel Diverse Chains and Cross-Linking Density for Cell Proliferation, Aging, and Death. Langmuir, 2019, 35, 13999-14006.	3.5	6
95	Effects of Nanoparticles of Metal Oxides on the Survival of the Entomopathogenic Nematode: Steinernema carpocapsae. Journal of Nanoscience and Nanotechnology, 2020, 20, 1434-1439.	0.9	6
96	Fabrication of Porous Pseudo-Carbon Paste Electrode as a Novel High-Sensitive Electrochemical Biosensor. Analytical Letters, 2008, 41, 2402-2411.	1.8	5
97	Synthesis of a Auâ€onâ€Pd Heteronanostructure Stabilized by Citrate and its Catalytic Application. Particle and Particle Systems Characterization, 2013, 30, 905-910.	2.3	5
98	Comparison of the Off-Target Effects Among One-Base to Three-Base Mismatched Targets of gRNA Using a Blue to White Assay. Journal of Nanoscience and Nanotechnology, 2018, 18, 1594-1598.	0.9	5
99	Improvement and Application of qPCR (Real-Time Quantitative Polymerase Chain Reaction) Data Processing Method for Home-Made Integrated Nucleic Acid Detection System. Journal of Nanoscience and Nanotechnology, 2020, 20, 7369-7375.	0.9	5
100	Recent Advances of Human Leukocyte Antigen (HLA) Typing Technology Based on High-Throughput Sequencing. Journal of Biomedical Nanotechnology, 2022, 18, 617-639.	1.1	5
101	High-Throughput SNP Detection Based on PCR Amplification on Magnetic Nanoparticles Using Dual-Color Hybridization. Methods in Molecular Biology, 2009, 578, 393-402.	0.9	4
102	Application of Solid-State NMR in Characterization of Bone Related Tissue Engineering. Journal of Nanoscience and Nanotechnology, 2012, 12, 2858-2865.	0.9	4
103	The Latest Progress of On-Site Pathogens Detection Techniques and Instruments Based on Nucleic Acid. Journal of Nanoscience and Nanotechnology, 2015, 15, 6342-6356.	0.9	4
104	Electrochemical detection of DNA by using â€œPd/GO label copper stainâ€•for signal amplification. Analytical Methods, 2015, 7, 8554-8560.	2.7	4
105	One-Step Hydrothermal Synthesis of Butanetetracarboxylic Acid-Coated NaYF₄:Yb³⁺, Er³⁺ Upconversion Phosphors with Enhancement Upconversion Luminescence. Journal of Nanoscience and Nanotechnology, 2016, 16, 1220-1224.	0.9	4
106	Influence of Metal Oxides Nanoparticles on Pathogenicity of Steinernema carpocapsae Nematodes Against Lepidopteran Galleria mellonella. Journal of Nanoscience and Nanotechnology, 2020, 20, 1470-1477.	0.9	4
107	2D Dendritic Gold Nanostructures Formed on Silica Nanosheets: Transferability, Clean Surface, and Their Biomedical Application. Particle and Particle Systems Characterization, 2018, 35, 1800268.	2.3	3
108	Mechanical Gripper Design and Force Analysis of Microplates for Automated High-Throughput Nucleic Acid Detection System. Journal of Nanoscience and Nanotechnology, 2020, 20, 1401-1408.	0.9	3

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109	AutoCell Systematic Evolution of Ligands by Exponential Enrichment: The Software Designed and Developed for the Automated Screening System of Nucleic Acid Aptamers. Journal of Nanoscience and Nanotechnology, 2021, 21, 5363-5369.	0.9	3
110	Design and Implementation of a High-Throughput Vibrating Module for Nucleic Acid Detection System. Journal of Nanoscience and Nanotechnology, 2020, 20, 2165-2170.	0.9	3
111	An important biological theory â€“ Solving the transport of bio-energy in living systems. Physics of Life Reviews, 2011, 8, 296-297.	2.8	2
112	Rapid Identification of Pathogens based on MIE Light Scattering and Machine Learning Approach. , 2019, , .		2
113	Study on the Air-Tightness Detection System for Pipetting in the Automated Aptamer Selection Instrument. Journal of Nanoelectronics and Optoelectronics, 2022, 17, 63-71.	0.5	2
114	QuickAnalysis: A Software Designed and Developed for a Portable On-Site Pathogen Detection System. Journal of Nanoscience and Nanotechnology, 2019, 19, 2054-2059.	0.9	1
115	Synthesis and crystal structure of (2E,2â€²E)-3,3â€²-(1,3-phenylene)bis(1-(3-bromophenyl)prop-2-en-1-one), C24H16Br2O2. Zeitschrift Fur Kristallographie - New Crystal Structures, 2021, 236, 863-864.	0.3	1
116	Synthesis and crystal structure of (1E,2E)-3-(anthracen-9-yl)-1-(4-methoxyphenyl)prop-2-en-1-one oxime, C24H19NO2. Zeitschrift Fur Kristallographie - New Crystal Structures, 2021, 236, 861-862.	0.3	1
117	Synthesis and crystal structure of the novel chiral acetyl-3-thiophene-5-(9-anthryl)-2-pyrazoline, C23H18N2OS. Zeitschrift Fur Kristallographie - New Crystal Structures, 2021, 236, 867-869.	0.3	1
118	Cardiac Troponin I Microfluidic Chip Driven by Adaptive Pressure. Nanoscience and Nanotechnology Letters, 2020, 12, 1239-1247.	0.4	1
119	The state of field of high-throughput SNP genotyping system. , 2011, , .		0
120	Research of temperature control algorithm in PCR gene amplify instrument. , 2011, , .		0
121	The complete mitochondrial genome of theNeochauliodes fraternus(Megaloptera: Corydalidae). Mitochondrial DNA, 2014, 27, 1-2.	0.6	0
122	A Novel Assay Coupling Dephosphorylation and Blue/White Colony Screening for the G > A Hotspot Mutation at Codon 13 of KRAS Gene. Journal of Nanoscience and Nanotechnology, 2018, 18, 538-543.	0.9	0
123	Stacking Ensemble Method for Early and Advanced Stage Lung Adenocarcinoma Classification Based on miRNA Expression. , 2021, , .		0