

Shiping Song

List of Publications by Year in descending order

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79
papers

8,509
citations

53751

45
h-index

58549

82
g-index

83
all docs

83
docs citations

83
times ranked

9668
citing authors

#	ARTICLE	IF	CITATIONS
1	A Graphene Nanoprobe for Rapid, Sensitive, and Multicolor Fluorescent DNA Analysis. <i>Advanced Functional Materials</i> , 2010, 20, 453-459.	7.8	1,310
2	Functional nanoprobe for ultrasensitive detection of biomolecules. <i>Chemical Society Reviews</i> , 2010, 39, 4234.	18.7	539
3	A DNA Nanostructure-based Biomolecular Probe Carrier Platform for Electrochemical Biosensing. <i>Advanced Materials</i> , 2010, 22, 4754-4758.	11.1	484
4	A graphene-based fluorescent nanoprobe for silver(i) ions detection by using graphene oxide and a silver-specific oligonucleotide. <i>Chemical Communications</i> , 2010, 46, 2596.	2.2	455
5	An Enzyme-Based E-DNA Sensor for Sequence-Specific Detection of Femtomolar DNA Targets. <i>Journal of the American Chemical Society</i> , 2008, 130, 6820-6825.	6.6	402
6	Gold Nanoparticle-Based Multicolor Nanobeacons for Sequence-Specific DNA Analysis. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8670-8674.	7.2	369
7	DNA Nanostructure-Decorated Surfaces for Enhanced Aptamer-Target Binding and Electrochemical Cocaine Sensors. <i>Analytical Chemistry</i> , 2011, 83, 7418-7423.	3.2	233
8	A graphene-enhanced molecular beacon for homogeneous DNA detection. <i>Nanoscale</i> , 2010, 2, 1021.	2.8	219
9	Multicolor Gold-Silver Nano-Mushrooms as Ready-to-Use SERS Probes for Ultrasensitive and Multiplex DNA/miRNA Detection. <i>Analytical Chemistry</i> , 2017, 89, 2531-2538.	3.2	205
10	Stable Nanocomposite Based on PEGylated and Silver Nanoparticles Loaded Graphene Oxide for Long-Term Antibacterial Activity. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15328-15341.	4.0	198
11	Functional nanoprobe for ultrasensitive detection of biomolecules: an update. <i>Chemical Society Reviews</i> , 2014, 43, 1601-1611.	18.7	190
12	Organelle-Specific Triggered Release of Immunostimulatory Oligonucleotides from Intrinsically Coordinated DNA-Metal-Organic Frameworks with Soluble Exoskeleton. <i>Journal of the American Chemical Society</i> , 2017, 139, 15784-15791.	6.6	180
13	Yolk-shell nanostructured Fe ₃ O ₄ @C magnetic nanoparticles with enhanced peroxidase-like activity for label-free colorimetric detection of H ₂ O ₂ and glucose. <i>Nanoscale</i> , 2017, 9, 4508-4515.	2.8	175
14	Electrochemical DNA Biosensor Based on a Tetrahedral Nanostructure Probe for the Detection of Avian Influenza A (H7N9) Virus. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8834-8842.	4.0	169
15	Carbon nanotube-based ultrasensitive multiplexing electrochemical immunosensor for cancer biomarkers. <i>Biosensors and Bioelectronics</i> , 2011, 30, 93-99.	5.3	141
16	Highly Stable Graphene-Based Nanocomposite (GO-PEI-Ag) with Broad-Spectrum, Long-Term Antimicrobial Activity and Antibiofilm Effects. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17617-17629.	4.0	140
17	Design of a carbon nanotube/magnetic nanoparticle-based peroxidase-like nanocomplex and its application for highly efficient catalytic oxidation of phenols. <i>Nano Research</i> , 2009, 2, 617-623.	5.8	133
18	Facile Synthesis of a MoS ₂ -Prussian Blue Nanocube Nanohybrid-Based Electrochemical Sensing Platform for Hydrogen Peroxide and Carcinoembryonic Antigen Detection. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12773-12781.	4.0	124

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19	Gold nanostructures encoded by non-fluorescent small molecules in polyA-mediated nanogaps as universal SERS nanotags for recognizing various bioactive molecules. <i>Chemical Science</i> , 2014, 5, 4460-4466.	3.7	118
20	DNA Nanostructure-Based Universal Microarray Platform for High-Efficiency Multiplex Bioanalysis in Biofluids. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 17944-17953.	4.0	110
21	Growth and Origami Folding of DNA on Nanoparticles for High-Efficiency Molecular Transport in Cellular Imaging and Drug Delivery. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2431-2435.	7.2	108
22	PolyA-Mediated DNA Assembly on Gold Nanoparticles for Thermodynamically Favorable and Rapid Hybridization Analysis. <i>Analytical Chemistry</i> , 2016, 88, 4949-4954.	3.2	107
23	Programming Cell Adhesion for On-Chip Sequential Boolean Logic Functions. <i>Journal of the American Chemical Society</i> , 2017, 139, 10176-10179.	6.6	103
24	A Bubble-Mediated Intelligent Microscale Electrochemical Device for Single-Step Quantitative Bioassays. <i>Advanced Materials</i> , 2014, 26, 4671-4676.	11.1	99
25	An electrochemical sensor for pesticide assays based on carbon nanotube-enhanced acetylcholinesterase activity. <i>Analyst</i> , 2008, 133, 1182.	1.7	98
26	A carbon nanotube-based high-sensitivity electrochemical immunosensor for rapid and portable detection of clenbuterol. <i>Biosensors and Bioelectronics</i> , 2011, 28, 308-313.	5.3	95
27	DNA-Encoded Raman-Active Anisotropic Nanoparticles for microRNA Detection. <i>Analytical Chemistry</i> , 2017, 89, 9850-9856.	3.2	85
28	Size-Dependent Regulation of Intracellular Trafficking of Polystyrene Nanoparticle-Based Drug-Delivery Systems. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18619-18625.	4.0	84
29	Development of mercury (II) ion biosensors based on mercury-specific oligonucleotide probes. <i>Biosensors and Bioelectronics</i> , 2016, 75, 433-445.	5.3	83
30	Electrochemical single nucleotide polymorphisms genotyping on surface immobilized three-dimensional branched DNA nanostructure. <i>Science China Chemistry</i> , 2011, 54, 1273-1276.	4.2	80
31	A Surface-Confined Proton-Driven DNA Pump Using a Dynamic 3D DNA Scaffold. <i>Advanced Materials</i> , 2016, 28, 6860-6865.	11.1	79
32	Highly narrow nanogap-containing Au@Au core-shell SERS nanoparticles: size-dependent Raman enhancement and applications in cancer cell imaging. <i>Nanoscale</i> , 2016, 8, 2090-2096.	2.8	76
33	Electrochemical Interrogation of Interactions between Surface-Confined DNA and Methylene Blue. <i>Sensors</i> , 2007, 7, 2671-2680.	2.1	71
34	Bimetallic nano-mushrooms with DNA-mediated interior nanogaps for high-efficiency SERS signal amplification. <i>Nano Research</i> , 2015, 8, 731-742.	5.8	70
35	Potential diagnostic applications of biosensors: current and future directions. <i>International Journal of Nanomedicine</i> , 2006, 1, 433-440.	3.3	70
36	Single copy-sensitive electrochemical assay for circulating methylated DNA in clinical samples with ultrahigh specificity based on a sequential discrimination-amplification strategy. <i>Chemical Science</i> , 2017, 8, 4764-4770.	3.7	64

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37	Dynamic and Quantitative Control of the DNA-Mediated Growth of Gold Plasmonic Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8338-8342.	7.2	63
38	Gold nanoparticle-based optical probes for target-responsive DNA structures. <i>Gold Bulletin</i> , 2008, 41, 37-41.	3.2	59
39	Bubble-Mediated Ultrasensitive Multiplex Detection of Metal Ions in Three-Dimensional DNA Nanostructure-Encoded Microchannels. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 16026-16034.	4.0	58
40	DNA Origami-Enabled Engineering of Ligand-Drug Conjugates for Targeted Drug Delivery. <i>Small</i> , 2020, 16, e1904857.	5.2	58
41	Portable detection of clenbuterol using a smartphone-based electrochemical biosensor with electric field-driven acceleration. <i>Journal of Electroanalytical Chemistry</i> , 2016, 781, 339-344.	1.9	54
42	Dynamic Modulation of DNA Hybridization Using Allosteric DNA Tetrahedral Nanostructures. <i>Analytical Chemistry</i> , 2016, 88, 8043-8049.	3.2	54
43	A nano- and micro- integrated protein chip based on quantum dot probes and a microfluidic network. <i>Nano Research</i> , 2008, 1, 490-496.	5.8	52
44	Graphene Oxide-Assisted Nucleic Acids Assays Using Conjugated Polyelectrolytes-Based Fluorescent Signal Transduction. <i>Analytical Chemistry</i> , 2015, 87, 3877-3883.	3.2	48
45	A DNA-based system for selecting and displaying the combined result of two input variables. <i>Nature Communications</i> , 2015, 6, 10089.	5.8	47
46	Logic Catalytic Interconversion of G-Molecular Hydrogel. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 4512-4518.	4.0	47
47	High-sensitivity pesticide detection via silicon nanowires-supported acetylcholinesterase-based electrochemical sensors. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	46
48	Multichannel Immunosensor Platform for the Rapid Detection of SARS-CoV-2 and Influenza A(H1N1) Virus. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 22262-22270.	4.0	41
49	High-Sensitivity and High-Efficiency Detection of DNA Hydroxymethylation in Genomic DNA by Multiplexing Electrochemical Biosensing. <i>Analytical Chemistry</i> , 2016, 88, 3476-3480.	3.2	37
50	DNA Framework-Supported Electrochemical Analysis of DNA Methylation for Prostate Cancers. <i>Nano Letters</i> , 2020, 20, 7028-7035.	4.5	31
51	A Centrifugation-based Method for Preparation of Gold Nanoparticles and its Application in Biodetection. <i>International Journal of Molecular Sciences</i> , 2007, 8, 526-532.	1.8	29
52	Hybridization chain reaction amplification for highly sensitive fluorescence detection of DNA with dextran coated microarrays. <i>Biosensors and Bioelectronics</i> , 2016, 81, 92-96.	5.3	29
53	Solubilization of Single-walled Carbon Nanotubes with Single-stranded DNA Generated from Asymmetric PCR. <i>International Journal of Molecular Sciences</i> , 2007, 8, 705-713.	1.8	28
54	Diagnosis of schistosomiasis japonica with interfacial co-assembly-based multi-channel electrochemical immunosensor arrays. <i>Scientific Reports</i> , 2013, 3, 1789.	1.6	28

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55	The Inhibition Effect of Graphene Oxide Nanosheets on the Development of <i>Streptococcus mutans</i> Biofilms. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1700001.	1.2	27
56	Cancer-Specific MicroRNA Analysis with a Nonenzymatic Nucleic Acid Circuit. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 11220-11226.	4.0	27
57	Smartphone-Based Electrochemical Biosensors for Directly Detecting Serum-Derived Exosomes and Monitoring Their Secretion. <i>Analytical Chemistry</i> , 2022, 94, 3235-3244.	3.2	27
58	A cancer protein microarray platform using antibody fragments and its clinical applications. <i>Molecular BioSystems</i> , 2007, 3, 151-158.	2.9	25
59	Growth and Origami Folding of DNA on Nanoparticles for High Efficiency Molecular Transport in Cellular Imaging and Drug Delivery. <i>Angewandte Chemie</i> , 2015, 127, 2461-2465.	1.6	25
60	A Conjugated Polymer-Based Electrochemical DNA Sensor: Design and Application of a Multi-Functional and Water-Soluble Conjugated Polymer. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1489-1494.	2.0	24
61	Graphene Nanoprobes for Real-Time Monitoring of Isothermal Nucleic Acid Amplification. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15245-15253.	4.0	23
62	Identifying the Genotypes of Hepatitis B Virus (HBV) with DNA Origami Label. <i>Small</i> , 2018, 14, 1701718.	5.2	23
63	A Carbon-Based DNA Framework Nano-Bio Interface for Biosensing with High Sensitivity and a High Signal-to-Noise Ratio. <i>ACS Sensors</i> , 2020, 5, 3979-3987.	4.0	23
64	CRISPR/Cas12a Powered DNA Framework-Supported Electrochemical Biosensing Platform for Ultrasensitive Nucleic Acid Analysis. <i>Small Methods</i> , 2021, 5, e2100935.	4.6	20
65	Gold nanoparticle-based sensing strategies for biomolecular detection. <i>Pure and Applied Chemistry</i> , 2010, 82, 81-89.	0.9	19
66	Lab on smartphone with interfaced electrochemical chips for on-site gender verification. <i>Journal of Electroanalytical Chemistry</i> , 2016, 777, 117-122.	1.9	17
67	Epitope Binning Assay Using an Electron Transfer-Modulated Aptamer Sensor. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 341-349.	4.0	17
68	Multifunctional Yolk-Shell Nanostructure as a Superquencher for Fluorescent Analysis of Potassium Ion Using Guanine-Rich Oligonucleotides. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30406-30413.	4.0	16
69	Cavity-Type DNA Origami-Based Plasmonic Nanostructures for Raman Enhancement. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21942-21948.	4.0	15
70	Nuclease-free target recycling signal amplification for ultrasensitive multiplexing DNA biosensing. <i>Biosensors and Bioelectronics</i> , 2017, 94, 605-608.	5.3	13
71	A smartphone-based three-in-one biosensor for co-detection of SARS-CoV-2 viral RNA, antigen and antibody. <i>Chemical Communications</i> , 2022, 58, 6108-6111.	2.2	13
72	Poly-Adenine-Engineered Gold Nanogaps for SERS Nanostructures. <i>ACS Applied Nano Materials</i> , 2019, 2, 3501-3509.	2.4	11

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73	A nano-integrated microfluidic biochip for enzyme-based point-of-care detection of creatinine. <i>Chemical Communications</i> , 2021, 57, 4726-4729.	2.2	11
74	A Carbon-Based Antifouling Nano-Biosensing Interface for Label-Free POCT of HbA1c. <i>Biosensors</i> , 2021, 11, 118.	2.3	11
75	Ultrasensitive pathogen detection with a rolling circle amplification-empowered multiplex electrochemical DNA sensor. <i>Chemical Communications</i> , 2021, 57, 12155-12158.	2.2	10
76	Interactions between Cytochrome c and DNA Strands Self-Assembled at Gold Electrode. <i>International Journal of Molecular Sciences</i> , 2007, 8, 136-144.	1.8	9
77	A Portable Biosensor Based on Au Nanoflower Interface Combined with Electrochemical Immunochromatography for POC Detection of Prostate-Specific Antigen. <i>Biosensors</i> , 2022, 12, 259.	2.3	8
78	A Highly Sensitive Amperometric Immunosensor for Clenbuterol Detection in Livestock Urine. <i>Electroanalysis</i> , 2013, 25, 867-873.	1.5	5
79	The enzyme-amplified amperometric DNA sensor using an electrodeposited polymer redox mediator. <i>Science in China Series B: Chemistry</i> , 2009, 52, 746-750.	0.8	4