Shiping Song

List of Publications by Citations

79 papers	7,293 citations	42 h-index	83 g-index
83 ext. papers	7,932 ext. citations	10.5 avg, IF	5.58 L-index

#	Paper	IF	Citations
79	A Graphene Nanoprobe for Rapid, Sensitive, and Multicolor Fluorescent DNA Analysis. *Advanced Functional Materials*, **2010**, 20, 453-459	15.6	1234
78	Functional nanoprobes for ultrasensitive detection of biomolecules. *Chemical Society Reviews*, **2010**, 39, 4234-43	58.5	492
77	A graphene-based fluorescent nanoprobe for silver(I) ions detection by using graphene oxide and a silver-specific oligonucleotide. *Chemical Communications*, **2010**, 46, 2596-8	5.8	432
76	A DNA nanostructure-based biomolecular probe carrier platform for electrochemical biosensing. *Advanced Materials*, **2010**, 22, 4754-8	24	404
75	An enzyme-based E-DNA sensor for sequence-specific detection of femtomolar DNA targets. *Journal of the American Chemical Society*, **2008**, 130, 6820-5	16.4	379
74	Gold-nanoparticle-based multicolor nanobeacons for sequence-specific DNA analysis. *Angewandte Chemie - International Edition*, **2009**, 48, 8670-4	16.4	351
73	DNA nanostructure-decorated surfaces for enhanced aptamer-target binding and electrochemical cocaine sensors. *Analytical Chemistry*, **2011**, 83, 7418-23	7.8	211
72	A graphene-enhanced molecular beacon for homogeneous DNA detection. *Nanoscale*, **2010**, 2, 1021-6	7.7	206
71	Functional nanoprobes for ultrasensitive detection of biomolecules: an update. *Chemical Society Reviews*, **2014**, 43, 1601-11	58.5	166
70	Multicolor Gold-Silver Nano-Mushrooms as Ready-to-Use SERS Probes for Ultrasensitive and Multiplex DNA/miRNA Detection. *Analytical Chemistry*, **2017**, 89, 2531-2538	7.8	161
69	Stable Nanocomposite Based on PEGylated and Silver Nanoparticles Loaded Graphene Oxide for Long-Term Antibacterial Activity. *ACS Applied Materials & Interfaces*, **2017**, 9, 15328-15341	9.5	147
68	Electrochemical DNA Biosensor Based on a Tetrahedral Nanostructure Probe for the Detection of Avian Influenza A (H7N9) Virus. *ACS Applied Materials & Interfaces*, **2015**, 7, 8834-42	9.5	138
67	Yolk-shell nanostructured FeO@C magnetic nanoparticles with enhanced peroxidase-like activity for label-free colorimetric detection of HO and glucose. *Nanoscale*, **2017**, 9, 4508-4515	7.7	136
66	Design of a carbon nanotube/magnetic nanoparticle-based peroxidase-like nanocomplex and its application for highly efficient catalytic oxidation of phenols. *Nano Research*, **2009**, 2, 617-623	10	129
65	Carbon nanotube-based ultrasensitive multiplexing electrochemical immunosensor for cancer biomarkers. *Biosensors and Bioelectronics*, **2011**, 30, 93-9	11.8	127
64	Organelle-Specific Triggered Release of Immunostimulatory Oligonucleotides from Intrinsically Coordinated DNA-Metal-Organic Frameworks with Soluble Exoskeleton. *Journal of the American Chemical Society*, **2017**, 139, 15784-15791	16.4	125
63	Gold nanostructures encoded by non-fluorescent small molecules in polyA-mediated nanogaps as universal SERS nanotags for recognizing various bioactive molecules. *Chemical Science*, **2014**, 5, 4460-4466	9.4	104

62	Highly Stable Graphene-Based Nanocomposite (GO-PEI-Ag) with Broad-Spectrum, Long-Term Antimicrobial Activity and Antibiofilm Effects. *ACS Applied Materials & Interfaces*, **2018**, 10, 17617-17629	9.5	95
61	An electrochemical sensor for pesticide assays based on carbon nanotube-enhanced acetycholinesterase activity. *Analyst, The*, **2008**, 133, 1182-6	5	94
60	Growth and origami folding of DNA on nanoparticles for high-efficiency molecular transport in cellular imaging and drug delivery. *Angewandte Chemie - International Edition*, **2015**, 54, 2431-5	16.4	93
59	DNA nanostructure-based universal microarray platform for high-efficiency multiplex bioanalysis in biofluids. *ACS Applied Materials & Interfaces*, **2014**, 6, 17944-53	9.5	91
58	PolyA-Mediated DNA Assembly on Gold Nanoparticles for Thermodynamically Favorable and Rapid Hybridization Analysis. *Analytical Chemistry*, **2016**, 88, 4949-54	7.8	90
57	A bubble-mediated intelligent microscale electrochemical device for single-step quantitative bioassays. *Advanced Materials*, **2014**, 26, 4671-6	24	87
56	Facile Synthesis of a MoS-Prussian Blue Nanocube Nanohybrid-Based Electrochemical Sensing Platform for Hydrogen Peroxide and Carcinoembryonic Antigen Detection. *ACS Applied Materials & Interfaces*, **2017**, 9, 12773-12781	9.5	86
55	A carbon nanotube-based high-sensitivity electrochemical immunosensor for rapid and portable detection of clenbuterol. *Biosensors and Bioelectronics*, **2011**, 28, 308-13	11.8	86
54	Programming Cell Adhesion for On-Chip Sequential Boolean Logic Functions. *Journal of the American Chemical Society*, **2017**, 139, 10176-10179	16.4	85
53	Electrochemical single nucleotide polymorphisms genotyping on surface immobilized three-dimensional branched DNA nanostructure. *Science China Chemistry*, **2011**, 54, 1273-1276	7.9	77
52	A Surface-Confined Proton-Driven DNA Pump Using a Dynamic 3D DNA Scaffold. *Advanced Materials*, **2016**, 28, 6860-5	24	70
51	Development of mercury (II) ion biosensors based on mercury-specific oligonucleotide probes. *Biosensors and Bioelectronics*, **2016**, 75, 433-45	11.8	68
50	DNA-Encoded Raman-Active Anisotropic Nanoparticles for microRNA Detection. *Analytical Chemistry*, **2017**, 89, 9850-9856	7.8	67
49	Highly narrow nanogap-containing Au@Au core-shell SERS nanoparticles: size-dependent Raman enhancement and applications in cancer cell imaging. *Nanoscale*, **2016**, 8, 2090-6	7.7	61
48	Bimetallic nano-mushrooms with DNA-mediated interior nanogaps for high-efficiency SERS signal amplification. *Nano Research*, **2015**, 8, 731-742	10	60
47	Electrochemical Interrogation of Interactions between Surface-Confined DNA and Methylene Blue. *Sensors*, **2007**, 7, 2671-2680	3.8	60
46	Size-Dependent Regulation of Intracellular Trafficking of Polystyrene Nanoparticle-Based Drug-Delivery Systems. *ACS Applied Materials & Interfaces*, **2017**, 9, 18619-18625	9.5	59
45	Potential diagnostic applications of biosensors: current and future directions. *International Journal of Nanomedicine*, **2006**, 1, 433-40	7.3	59

44	Dynamic and quantitative control of the DNA-mediated growth of gold plasmonic nanostructures. *Angewandte Chemie - International Edition*, **2014**, 53, 8338-42	16.4	58
43	Gold nanoparticlebased optical probes for target-responsive DNA structures **2008**, 41, 37-41		58
42	Single copy-sensitive electrochemical assay for circulating methylated DNA in clinical samples with ultrahigh specificity based on a sequential discrimination-amplification strategy. *Chemical Science*, **2017**, 8, 4764-4770	9.4	55
41	A nano- and micro- integrated protein chip based on quantum dot probes and a microfluidic network. *Nano Research*, **2008**, 1, 490-496	10	47
40	Bubble-Mediated Ultrasensitive Multiplex Detection of Metal Ions in Three-Dimensional DNA Nanostructure-Encoded Microchannels. *ACS Applied Materials & Interfaces*, **2017**, 9, 16026-16034	9.5	46
39	Graphene oxide-assisted nucleic acids assays using conjugated polyelectrolytes-based fluorescent signal transduction. *Analytical Chemistry*, **2015**, 87, 3877-83	7.8	44
38	Portable detection of clenbuterol using a smartphone-based electrochemical biosensor with electric field-driven acceleration. *Journal of Electroanalytical Chemistry*, **2016**, 781, 339-344	4.1	43
37	High-sensitivity pesticide detection via silicon nanowires-supported acetylcholinesterase-based electrochemical sensors. *Applied Physics Letters*, **2008**, 93, 023113	3.4	42
36	A DNA-based system for selecting and displaying the combined result of two input variables. *Nature Communications*, **2015**, 6, 10089	17.4	40
35	Dynamic Modulation of DNA Hybridization Using Allosteric DNA Tetrahedral Nanostructures. *Analytical Chemistry*, **2016**, 88, 8043-9	7.8	37
34	Logic Catalytic Interconversion of G-Molecular Hydrogel. *ACS Applied Materials & Interfaces*, **2018**, 10, 4512-4518	9.5	36
33	High-Sensitivity and High-Efficiency Detection of DNA Hydroxymethylation in Genomic DNA by Multiplexing Electrochemical Biosensing. *Analytical Chemistry*, **2016**, 88, 3476-80	7.8	34
32	Hybridization chain reaction amplification for highly sensitive fluorescence detection of DNA with dextran coated microarrays. *Biosensors and Bioelectronics*, **2016**, 81, 92-96	11.8	26
31	A Centrifugation-based Method for Preparation of Gold Nanoparticles and its Application in Biodetection. *International Journal of Molecular Sciences*, **2007**, 8, 526-532	6.3	26
30	DNA Origami-Enabled Engineering of Ligand-Drug Conjugates for Targeted Drug Delivery. *Small*, **2020**, 16, e1904857	11	25
29	Diagnosis of schistosomiasis japonica with interfacial co-assembly-based multi-channel electrochemical immunosensor arrays. *Scientific Reports*, **2013**, 3, 1789	4.9	24
28	Growth and Origami Folding of DNA on Nanoparticles for High-Efficiency Molecular Transport in Cellular Imaging and Drug Delivery. *Angewandte Chemie*, **2015**, 127, 2461-2465	3.6	23
27	A Conjugated Polymer-Based Electrochemical DNA Sensor: Design and Application of a Multi-Functional and Water-Soluble Conjugated Polymer. *Macromolecular Rapid Communications*, **2008**, 29, 1489-1494	4.8	23

26	A cancer protein microarray platform using antibody fragments and its clinical applications. *Molecular BioSystems*, **2007**, 3, 151-8		22
25	Solubilization of Single-walled Carbon Nanotubes with Single- stranded DNA Generated from Asymmetric PCR. *International Journal of Molecular Sciences*, **2007**, 8, 705-713	6.3	21
24	Graphene Nanoprobes for Real-Time Monitoring of Isothermal Nucleic Acid Amplification. *ACS Applied Materials & Interfaces*, **2017**, 9, 15245-15253	9.5	20
23	The Inhibition Effect of Graphene Oxide Nanosheets on the Development of Streptococcus mutans Biofilms. *Particle and Particle Systems Characterization*, **2017**, 34, 1700001	3.1	18
22	Identifying the Genotypes of Hepatitis B Virus (HBV) with DNA Origami Label. *Small*, **2018**, 14, 1701718	11	17
21	Lab on smartphone with interfaced electrochemical chips for on-site gender verification. *Journal of Electroanalytical Chemistry*, **2016**, 777, 117-122	4.1	17
20	Gold nanoparticle-based sensing strategies for biomolecular detection. *Pure and Applied Chemistry*, **2010**, 82, 81-89	2.1	16
19	Cancer-Specific MicroRNA Analysis with a Nonenzymatic Nucleic Acid Circuit. *ACS Applied Materials & Interfaces*, **2019**, 11, 11220-11226	9.5	15
18	Multifunctional Yolk-Shell Nanostructure as a Superquencher for Fluorescent Analysis of Potassium Ion Using Guanine-Rich Oligonucleotides. *ACS Applied Materials & Interfaces*, **2017**, 9, 30406-30413	9.5	14
17	Cavity-Type DNA Origami-Based Plasmonic Nanostructures for Raman Enhancement. *ACS Applied Materials & Interfaces*, **2017**, 9, 21942-21948	9.5	13
16	Multichannel Immunosensor Platform for the Rapid Detection of SARS-CoV-2 and Influenza A(H1N1) Virus. *ACS Applied Materials & Interfaces*, **2021**, 13, 22262-22270	9.5	12
15	Epitope Binning Assay Using an Electron Transfer-Modulated Aptamer Sensor. *ACS Applied Materials & Interfaces*, **2018**, 10, 341-349	9.5	11
14	Nuclease-free target recycling signal amplification for ultrasensitive multiplexing DNA biosensing. *Biosensors and Bioelectronics*, **2017**, 94, 605-608	11.8	9
13	DNA Framework-Supported Electrochemical Analysis of DNA Methylation for Prostate Cancers. *Nano Letters*, **2020**, 20, 7028-7035	11.5	9
12	Interactions between Cytochrome c and DNA Strands Self-Assembled at Gold Electrode. *International Journal of Molecular Sciences*, **2007**, 8, 136-144	6.3	8
11	A Carbon-Based DNA Framework Nano-Bio Interface for Biosensing with High Sensitivity and a High Signal-to-Noise Ratio. *ACS Sensors*, **2020**, 5, 3979-3987	9.2	8
10	A Carbon-Based Antifouling Nano-Biosensing Interface for Label-Free POCT of HbA1c. *Biosensors*, **2021**, 11,	5.9	6
9	A Highly Sensitive Amperometric Immunosensor for Clenbuterol Detection in Livestock Urine. *Electroanalysis*, **2013**, 25, 867-873	3	5

8	Poly-Adenine-Engineered Gold Nanogaps for SERS Nanostructures. *ACS Applied Nano Materials*, **2019**, 2, 3501-3509	5.6	4
7	The enzyme-amplified amperometric DNA sensor using an electrodeposited polymer redox mediator. *Science in China Series B: Chemistry*, **2009**, 52, 746-750		4
6	Smartphone-Based Electrochemical Biosensors for Directly Detecting Serum-Derived Exosomes and Monitoring Their Secretion.. *Analytical Chemistry*, **2022**,	7.8	4
5	CRISPR/Cas12a Powered DNA Framework-Supported Electrochemical Biosensing Platform for Ultrasensitive Nucleic Acid Analysis.. *Small Methods*, **2021**, 5, e2100935	12.8	4
4	A nano-integrated microfluidic biochip for enzyme-based point-of-care detection of creatinine. *Chemical Communications*, **2021**, 57, 4726-4729	5.8	4
3	Ultrasensitive pathogen detection with a rolling circle amplification-empowered multiplex electrochemical DNA sensor. *Chemical Communications*, **2021**, 57, 12155-12158	5.8	3
2	A Portable Biosensor Based on Au Nanoflower Interface Combined with Electrochemical Immunochromatography for POC Detection of Prostate-Specific Antigen. *Biosensors*, **2022**, 12, 259	5.9	2
1	A smartphone-based three-in-one biosensor for co-detection of SARS-CoV-2 viral RNA, antigen and antibody.. *Chemical Communications*, **2022**, 58, 6108-6111	5.8	2