

Shiping Song

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Smartphone-Based Electrochemical Biosensors for Directly Detecting Serum-Derived Exosomes and Monitoring Their Secretion.. <i>Analytical Chemistry</i> , 2022 ,	7.8	4
78	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	5.9	2
77	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	5.8	2
76	Ultrasensitive pathogen detection with a rolling circle amplification-empowered multiplex electrochemical DNA sensor. <i>Chemical Communications</i> , 2021 , 57, 12155-12158	5.8	3
75	CRISPR/Cas12a Powered DNA Framework-Supported Electrochemical Biosensing Platform for Ultrasensitive Nucleic Acid Analysis.. <i>Small Methods</i> , 2021 , 5, e2100935	12.8	4
74	A Carbon-Based Antifouling Nano-Biosensing Interface for Label-Free POCT of HbA1c. <i>Biosensors</i> , 2021 , 11,	5.9	6
73	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	9.5	12
72	A nano-integrated microfluidic biochip for enzyme-based point-of-care detection of creatinine. <i>Chemical Communications</i> , 2021 , 57, 4726-4729	5.8	4
71	DNA Origami-Enabled Engineering of Ligand-Drug Conjugates for Targeted Drug Delivery. <i>Small</i> , 2020 , 16, e1904857	11	25
70	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	9.2	8
69	DNA Framework-Supported Electrochemical Analysis of DNA Methylation for Prostate Cancers. <i>Nano Letters</i> , 2020 , 20, 7028-7035	11.5	9
68	Poly-Adenine-Engineered Gold Nanogaps for SERS Nanostructures. <i>ACS Applied Nano Materials</i> , 2019 , 2, 3501-3509	5.6	4
67	Cancer-Specific MicroRNA Analysis with a Nonenzymatic Nucleic Acid Circuit. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 11220-11226	9.5	15
66	Logic Catalytic Interconversion of G-Molecular Hydrogel. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 4512-4518	9.5	36
65	Identifying the Genotypes of Hepatitis B Virus (HBV) with DNA Origami Label. <i>Small</i> , 2018 , 14, 1701718	11	17
64	Epitope Binning Assay Using an Electron Transfer-Modulated Aptamer Sensor. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 341-349	9.5	11
63	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	9.5	95

62	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	7.8	161
61	Yolk-shell nanostructured FeO@C magnetic nanoparticles with enhanced peroxidase-like activity for label-free colorimetric detection of HO and glucose. <i>Nanoscale</i> , 2017 , 9, 4508-4515	7.7	136
60	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	9.5	147
59	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	9.5	46
58	Size-Dependent Regulation of Intracellular Trafficking of Polystyrene Nanoparticle-Based Drug-Delivery Systems. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18619-18625	9.5	59
57	The Inhibition Effect of Graphene Oxide Nanosheets on the Development of Streptococcus mutans Biofilms. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1700001	3.1	18
56	Graphene Nanoprobes for Real-Time Monitoring of Isothermal Nucleic Acid Amplification. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 15245-15253	9.5	20
55	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	9.4	55
54	Cavity-Type DNA Origami-Based Plasmonic Nanostructures for Raman Enhancement. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21942-21948	9.5	13
53	Nuclease-free target recycling signal amplification for ultrasensitive multiplexing DNA biosensing. <i>Biosensors and Bioelectronics</i> , 2017 , 94, 605-608	11.8	9
52	Facile Synthesis of a MoS-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	9.5	86
51	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	16.4	125
50	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	9.5	14
49	DNA-Encoded Raman-Active Anisotropic Nanoparticles for microRNA Detection. <i>Analytical Chemistry</i> , 2017 , 89, 9850-9856	7.8	67
48	Programming Cell Adhesion for On-Chip Sequential Boolean Logic Functions. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10176-10179	16.4	85
47	Development of mercury (II) ion biosensors based on mercury-specific oligonucleotide probes. <i>Biosensors and Bioelectronics</i> , 2016 , 75, 433-45	11.8	68
46	Dynamic Modulation of DNA Hybridization Using Allosteric DNA Tetrahedral Nanostructures. <i>Analytical Chemistry</i> , 2016 , 88, 8043-9	7.8	37
45	Hybridization chain reaction amplification for highly sensitive fluorescence detection of DNA with dextran coated microarrays. <i>Biosensors and Bioelectronics</i> , 2016 , 81, 92-96	11.8	26

44	High-Sensitivity and High-Efficiency Detection of DNA Hydroxymethylation in Genomic DNA by Multiplexing Electrochemical Biosensing. <i>Analytical Chemistry</i> , 2016 , 88, 3476-80	7.8	34
43	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, 2090-6	7.7	61
42	A Surface-Confined Proton-Driven DNA Pump Using a Dynamic 3D DNA Scaffold. <i>Advanced Materials</i> , 2016 , 28, 6860-5	24	70
41	PolyA-Mediated DNA Assembly on Gold Nanoparticles for Thermodynamically Favorable and Rapid Hybridization Analysis. <i>Analytical Chemistry</i> , 2016 , 88, 4949-54	7.8	90
40	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	4.1	43
39	Lab on smartphone with interfaced electrochemical chips for on-site gender verification. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 777, 117-122	4.1	17
38	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, 2431-5	16.4	93
37	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, 8834-42	9.5	138
36	Graphene oxide-assisted nucleic acids assays using conjugated polyelectrolytes-based fluorescent signal transduction. <i>Analytical Chemistry</i> , 2015 , 87, 3877-83	7.8	44
35	A DNA-based system for selecting and displaying the combined result of two input variables. <i>Nature Communications</i> , 2015 , 6, 10089	17.4	40
34	Bimetallic nano-mushrooms with DNA-mediated interior nanogaps for high-efficiency SERS signal amplification. <i>Nano Research</i> , 2015 , 8, 731-742	10	60
33	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	3.6	23
32	Functional nanoprobe for ultrasensitive detection of biomolecules: an update. <i>Chemical Society Reviews</i> , 2014 , 43, 1601-11	58.5	166
31	DNA nanostructure-based universal microarray platform for high-efficiency multiplex bioanalysis in biofluids. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 17944-53	9.5	91
30	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	9.4	104
29	Dynamic and quantitative control of the DNA-mediated growth of gold plasmonic nanostructures. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 8338-42	16.4	58
28	A bubble-mediated intelligent microscale electrochemical device for single-step quantitative bioassays. <i>Advanced Materials</i> , 2014 , 26, 4671-6	24	87
27	A Highly Sensitive Amperometric Immunosensor for Clenbuterol Detection in Livestock Urine. <i>Electroanalysis</i> , 2013 , 25, 867-873	3	5

26	Diagnosis of schistosomiasis japonica with interfacial co-assembly-based multi-channel electrochemical immunosensor arrays. <i>Scientific Reports</i> , 2013 , 3, 1789	4.9	24
25	A carbon nanotube-based high-sensitivity electrochemical immunosensor for rapid and portable detection of clenbuterol. <i>Biosensors and Bioelectronics</i> , 2011 , 28, 308-13	11.8	86
24	Carbon nanotube-based ultrasensitive multiplexing electrochemical immunosensor for cancer biomarkers. <i>Biosensors and Bioelectronics</i> , 2011 , 30, 93-9	11.8	127
23	DNA nanostructure-decorated surfaces for enhanced aptamer-target binding and electrochemical cocaine sensors. <i>Analytical Chemistry</i> , 2011 , 83, 7418-23	7.8	211
22	Electrochemical single nucleotide polymorphisms genotyping on surface immobilized three-dimensional branched DNA nanostructure. <i>Science China Chemistry</i> , 2011 , 54, 1273-1276	7.9	77
21	Gold nanoparticle-based sensing strategies for biomolecular detection. <i>Pure and Applied Chemistry</i> , 2010 , 82, 81-89	2.1	16
20	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, 2596-8	5.8	432
19	Functional nanoprobe for ultrasensitive detection of biomolecules. <i>Chemical Society Reviews</i> , 2010 , 39, 4234-43	58.5	492
18	A graphene-enhanced molecular beacon for homogeneous DNA detection. <i>Nanoscale</i> , 2010 , 2, 1021-6	7.7	206
17	A Graphene Nanoprobe for Rapid, Sensitive, and Multicolor Fluorescent DNA Analysis. <i>Advanced Functional Materials</i> , 2010 , 20, 453-459	15.6	1234
16	A DNA nanostructure-based biomolecular probe carrier platform for electrochemical biosensing. <i>Advanced Materials</i> , 2010 , 22, 4754-8	24	404
15	Gold-nanoparticle-based multicolor nanobeacons for sequence-specific DNA analysis. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8670-4	16.4	351
14	The enzyme-amplified amperometric DNA sensor using an electrodeposited polymer redox mediator. <i>Science in China Series B: Chemistry</i> , 2009 , 52, 746-750		4
13	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	10	129
12	High-sensitivity pesticide detection via silicon nanowires-supported acetylcholinesterase-based electrochemical sensors. <i>Applied Physics Letters</i> , 2008 , 93, 023113	3.4	42
11	An electrochemical sensor for pesticide assays based on carbon nanotube-enhanced acetylcholinesterase activity. <i>Analyst, The</i> , 2008 , 133, 1182-6	5	94
10	An enzyme-based E-DNA sensor for sequence-specific detection of femtomolar DNA targets. <i>Journal of the American Chemical Society</i> , 2008 , 130, 6820-5	16.4	379
9	Gold nanoparticlebased optical probes for target-responsive DNA structures 2008 , 41, 37-41		58

8	A nano- and micro- integrated protein chip based on quantum dot probes and a microfluidic network. <i>Nano Research</i> , 2008 , 1, 490-496	10	47
7	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	4.8	23
6	A cancer protein microarray platform using antibody fragments and its clinical applications. <i>Molecular BioSystems</i> , 2007 , 3, 151-8		22
5	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	6.3	26
4	Electrochemical Interrogation of Interactions between Surface-Confined DNA and Methylene Blue. <i>Sensors</i> , 2007 , 7, 2671-2680	3.8	60
3	Interactions between Cytochrome c and DNA Strands Self-Assembled at Gold Electrode. <i>International Journal of Molecular Sciences</i> , 2007 , 8, 136-144	6.3	8
2	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	6.3	21
1	Potential diagnostic applications of biosensors: current and future directions. <i>International Journal of Nanomedicine</i> , 2006 , 1, 433-40	7.3	59