

Zai-Sheng Wu

List of Publications by Citations

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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.

71
papers

2,016
citations

27
h-index

42
g-index

79
ext. papers

2,520
ext. citations

9.1
avg, IF

5.02
L-index

#	Paper	IF	Citations
71	Reusable electrochemical sensing platform for highly sensitive detection of small molecules based on structure-switching signaling aptamers. <i>Analytical Chemistry</i> , 2007 , 79, 2933-9	7.8	171
70	Highly sensitive and selective bifunctional oligonucleotide probe for homogeneous parallel fluorescence detection of protein and nucleotide sequence. <i>Analytical Chemistry</i> , 2011 , 83, 3050-7	7.8	129
69	Electrochemical aptameric recognition system for a sensitive protein assay based on specific target binding-induced rolling circle amplification. <i>Analytical Chemistry</i> , 2010 , 82, 2282-9	7.8	101
68	Optical detection of DNA hybridization based on fluorescence quenching of tagged oligonucleotide probes by gold nanoparticles. <i>Analytical Biochemistry</i> , 2006 , 353, 22-9	3.1	83
67	Precision-Guided Missile-Like DNA Nanostructure Containing Warhead and Guidance Control for Aptamer-Based Targeted Drug Delivery into Cancer Cells in Vitro and in Vivo. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1265-1277	16.4	73
66	Target-Induced Catalytic Assembly of Y-Shaped DNA and Its Application for In Situ Imaging of MicroRNAs. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9739-9743	16.4	72
65	Homogeneous, unmodified gold nanoparticle-based colorimetric assay of hydrogen peroxide. <i>Analytica Chimica Acta</i> , 2007 , 584, 122-8	6.6	72
64	Reversible electronic nanoswitch based on DNA G-quadruplex conformation: a platform for single-step, reagentless potassium detection. <i>Biomaterials</i> , 2008 , 29, 2689-96	15.6	72
63	Universal aptameric system for highly sensitive detection of protein based on structure-switching-triggered rolling circle amplification. <i>Analytical Chemistry</i> , 2010 , 82, 2221-7	7.8	70
62	Gold colloid-bienzyme conjugates for glucose detection utilizing surface-enhanced Raman scattering. <i>Talanta</i> , 2006 , 70, 533-9	6.2	52
61	Highly sensitive DNA detection and point mutation identification: an electrochemical approach based on the combined use of ligase and reverse molecular beacon. <i>Human Mutation</i> , 2007 , 28, 630-7	4.7	41
60	Palindromic Molecule Beacon-Based Cascade Amplification for Colorimetric Detection of Cancer Genes. <i>Analytical Chemistry</i> , 2018 , 90, 3335-3340	7.8	40
59	A sensitive immunoassay based on electropolymerized films by capacitance measurements for direct detection of immunospecies. <i>Analytical Biochemistry</i> , 2005 , 337, 308-15	3.1	40
58	Engineering interlocking DNA rings with weak physical interactions. <i>Nature Communications</i> , 2014 , 5, 4279	17.4	39
57	Cascade DNA nanomachine and exponential amplification biosensing. <i>Biosensors and Bioelectronics</i> , 2015 , 73, 19-25	11.8	39
56	Label-free colorimetric detection of cancer related gene based on two-step amplification of molecular machine. <i>Biosensors and Bioelectronics</i> , 2017 , 90, 314-320	11.8	37
55	Inhibitory effect of target binding on hairpin aptamer sticky-end pairing-induced gold nanoparticle assembly for light-up colorimetric protein assay. <i>Analytical Chemistry</i> , 2010 , 82, 3890-8	7.8	36

54	Ultrasensitive assay based on a combined cascade amplification by nicking-mediated rolling circle amplification and symmetric strand-displacement amplification. <i>Analytica Chimica Acta</i> , 2019 , 1047, 172-178	6.6	35
53	Autonomous assembly of ordered metastable DNA nanoarchitecture and in situ visualizing of intracellular microRNAs. <i>Biomaterials</i> , 2017 , 120, 57-65	15.6	33
52	Double-stem Hairpin Probe and Ultrasensitive Colorimetric Detection of Cancer-related Nucleic Acids. <i>Theranostics</i> , 2016 , 6, 318-27	12.1	33
51	Nucleic Acids Analysis. <i>Science China Chemistry</i> , 2020 , 64, 1-33	7.9	33
50	Y-Shaped Backbone-Rigidified Triangular DNA Scaffold-Directed Stepwise Movement of a DNAzyme Walker for Sensitive MicroRNA Imaging within Living Cells. <i>Analytical Chemistry</i> , 2019 , 91, 15678-15685	7.8	31
49	Oriented Tetrahedron-Mediated Protection of Catalytic DNA Molecular-Scale Detector against in Vivo Degradation for Intracellular miRNA Detection. <i>Analytical Chemistry</i> , 2019 , 91, 11529-11536	7.8	30
48	Two-wheel drive-based DNA nanomachine and its sensing potential for highly sensitive analysis of cancer-related gene. <i>Biomaterials</i> , 2016 , 100, 110-7	15.6	29
47	New molecular beacon for p53 gene point mutation and significant potential in serving as the polymerization primer. <i>Biosensors and Bioelectronics</i> , 2015 , 66, 504-11	11.8	28
46	DNA nanostructures from palindromic rolling circle amplification for the fluorescent detection of cancer-related microRNAs. <i>Talanta</i> , 2019 , 192, 175-181	6.2	28
45	G-rich oligonucleotide-functionalized gold nanoparticle aggregation. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 387, 2623-6	4.4	27
44	Biostable Aptamer Rings Conjugated for Targeting Two Biomarkers on Circulating Tumor Cells in Vivo with Great Precision. <i>Chemistry of Materials</i> , 2017 , 29, 10312-10325	9.6	26
43	Label-free optical bifunctional oligonucleotide probe for homogeneous amplification detection of disease markers. <i>Biosensors and Bioelectronics</i> , 2011 , 29, 66-75	11.8	25
42	Intracellular Nonenzymatic Growth of Three-Dimensional DNA Nanostructures for Imaging Specific Biomolecules in Living Cells. <i>ACS Nano</i> , 2020 , 14, 9572-9584	16.7	25
41	Intelligent DNA machine for the ultrasensitive colorimetric detection of nucleic acids. <i>Biosensors and Bioelectronics</i> , 2016 , 75, 41-7	11.8	24
40	Periodically Ordered, Nuclease-Resistant DNA Nanowires Decorated with Cell-Specific Aptamers as Selective Theranostic Agents. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17540-17547	16.4	24
39	Exponential rolling circle amplification and its sensing application for highly sensitive DNA detection of tumor suppressor gene. <i>Sensors and Actuators B: Chemical</i> , 2017 , 243, 1240-1247	8.5	23
38	Ribbon of DNA Lattice on Gold Nanoparticles for Selective Drug Delivery to Cancer Cells. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 14584-14592	16.4	23
37	Single palindromic molecular beacon-based amplification for genetic analysis of cancers. <i>Biosensors and Bioelectronics</i> , 2017 , 91, 692-698	11.8	22

36	Immunomagnetic antibody plus aptamer pseudo-DNA nanocatenane followed by rolling circle amplification for highly-sensitive CTC detection. <i>Biosensors and Bioelectronics</i> , 2018 , 122, 239-246	11.8	22
35	A label-free colorimetric isothermal cascade amplification for the detection of disease-related nucleic acids based on double-hairpin molecular beacon. <i>Analytica Chimica Acta</i> , 2017 , 957, 55-62	6.6	21
34	Increasingly branched rolling circle amplification for the cancer gene detection. <i>Biosensors and Bioelectronics</i> , 2016 , 86, 1067-1073	11.8	21
33	Branched DNA Junction-Enhanced Isothermal Circular Strand Displacement Polymerization for Intracellular Imaging of MicroRNAs. <i>Analytical Chemistry</i> , 2018 , 90, 13891-13899	7.8	21
32	Programmable nanoassembly consisting of two hairpin-DNAs for p53 gene determination. <i>Biosensors and Bioelectronics</i> , 2017 , 94, 626-631	11.8	20
31	Novel multifunction-integrated molecular beacon for the amplification detection of DNA hybridization based on primer/template-free isothermal polymerization. <i>Biosensors and Bioelectronics</i> , 2015 , 72, 182-90	11.8	20
30	Bead-String-Shaped DNA Nanowires with Intrinsic Structural Advantages and Their Potential for Biomedical Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 3341-3353	9.5	18
29	Dual-cyclical nucleic acid strand-displacement polymerization based signal amplification system for highly sensitive determination of p53 gene. <i>Biosensors and Bioelectronics</i> , 2016 , 86, 1024-1030	11.8	18
28	Loopback rolling circle amplification for ultrasensitive detection of Kras gene. <i>Talanta</i> , 2017 , 164, 511-517	16	16
27	Programmably tiling rigidified DNA brick on gold nanoparticle as multi-functional shell for cancer-targeted delivery of siRNAs. <i>Nature Communications</i> , 2021 , 12, 2928	17.4	15
26	Intermolecular G-quadruplex-based universal quencher free molecular beacon. <i>Chemical Communications</i> , 2012 , 48, 10760-2	5.8	14
25	Fluorescent oligonucleotide probe based on G-quadruplex scaffold for signal-on ultrasensitive protein assay. <i>Biomaterials</i> , 2010 , 31, 1918-24	15.6	14
24	Discovery of the unique self-assembly behavior of terminal suckers-contained dsDNA onto GNP and novel "light-up" colorimetric assay of nucleic acids. <i>Biosensors and Bioelectronics</i> , 2015 , 64, 292-9	11.8	12
23	Twin target self-amplification-based DNA machine for highly sensitive detection of cancer-related gene. <i>Analytica Chimica Acta</i> , 2018 , 1011, 86-93	6.6	11
22	Intracellular self-enhanced rolling circle amplification to image specific miRNAs within tumor cells. <i>Sensors and Actuators B: Chemical</i> , 2019 , 282, 507-514	8.5	11
21	A Biofunctional Molecular Beacon for Detecting Single Base Mutations in Cancer Cells. <i>Molecular Therapy - Nucleic Acids</i> , 2016 , 5, e302	10.7	10
20	Hybridization chain reaction and its applications in biosensing. <i>Talanta</i> , 2021 , 234, 122637	6.2	10
19	Nuclease-resistant signaling nanostructures made entirely of DNA oligonucleotides. <i>Nanoscale</i> , 2021 , 13, 7034-7051	7.7	9

18	Target-catalyzed hairpin structure-mediated padlock cyclization for ultrasensitive rolling circle amplification. <i>Talanta</i> , 2019 , 204, 29-35	6.2	8
17	Combination of Immunomagnetic Separation with Aptamer-Mediated Double Rolling Circle Amplification for Highly Sensitive Circulating Tumor Cell Detection. <i>ACS Sensors</i> , 2020 , 5, 3870-3878	9.2	8
16	Target-Induced Catalytic Assembly of Y-Shaped DNA and Its Application for In Situ Imaging of MicroRNAs. <i>Angewandte Chemie</i> , 2018 , 130, 9887-9891	3.6	7
15	Rigidified DNA Triangle-Protected Molecular Beacon from Endogenous Nuclease Digestion for Monitoring microRNA Expression in Living Cells. <i>ACS Sensors</i> , 2020 , 5, 2378-2387	9.2	7
14	Inverted mirror image molecular beacon-based three concatenated logic gates to detect p53 tumor suppressor gene. <i>Analytica Chimica Acta</i> , 2019 , 1051, 179-186	6.6	6
13	Stimuli-Responsive Autonomous-Motion Molecular Machine for Sensitive Simultaneous Fluorescence Imaging of Intracellular MicroRNAs. <i>Analytical Chemistry</i> , 2021 , 93, 9869-9877	7.8	5
12	Self-Protected DNAzyme Walker with a Circular Bulging DNA Shield for Amplified Imaging of miRNAs in Living Cells and Mice. <i>ACS Nano</i> , 2021 ,	16.7	5
11	Simple Self-Assembled Targeting DNA Nano Sea Urchin as a Multivalent Drug Carrier.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 4514-4521	4.1	3
10	Palindromic probe-mediated strand displacement amplification for highly sensitive and selective microRNA imaging. <i>Talanta</i> , 2020 , 219, 121295	6.2	2
9	Biocomputing label-free security system based on homogenous ligation chain reaction-induced dramatic change in melting temperature for screening single nucleotide polymorphisms. <i>Talanta</i> , 2020 , 218, 121141	6.2	2
8	FMRP regulates STAT3 mRNA localization to cellular protrusions and local translation to promote hepatocellular carcinoma metastasis. <i>Communications Biology</i> , 2021 , 4, 540	6.7	2
7	Topological DNA Assemblies Containing Identical or Fraternal Twins. <i>ChemBioChem</i> , 2016 , 17, 1142-5	3.8	2
6	Structural requirement of G-quadruplex/aptamer-combined DNA macromolecule serving as efficient drug carrier for cancer-targeted drug delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021 , 159, 221-227	5.7	2
5	Intracellular in situ assembly of palindromic DNA hydrogel for predicting malignant invasion and preventing tumorigenesis. <i>Chemical Engineering Journal</i> , 2022 , 428, 131150	14.7	2
4	Periodically Ordered, Nuclease-Resistant DNA Nanowires Decorated with Cell-Specific Aptamers as Selective Theranostic Agents. <i>Angewandte Chemie</i> , 2020 , 132, 17693-17700	3.6	1
3	Stimuli-Induced Upgrade of Nuclease-Resistant DNA Nanostructure Composed of a Single Molecular Beacon for Detecting Mutant Genes. <i>ACS Sensors</i> , 2021 , 6, 4029-4037	9.2	1
2	Structure-switchable aptamer-arranged reconfigurable DNA nanonetworks for targeted cancer therapy.. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2022 , 102553	6	1
1	The hierarchical assembly of a multi-level DNA ring-based nanostructure in a precise order and its application for screening tumor cells. <i>Biomaterials Science</i> , 2021 , 9, 2262-2270	7.4	

