## Zai-Sheng Wu

List of Publications by Year in descending order

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ZALSHENC WIL

#	Article	IF	CITATIONS
1	Reusable Electrochemical Sensing Platform for Highly Sensitive Detection of Small Molecules Based on Structure-Switching Signaling Aptamers. Analytical Chemistry, 2007, 79, 2933-2939.	3.2	187
2	Highly Sensitive and Selective Bifunctional Oligonucleotide Probe for Homogeneous Parallel Fluorescence Detection of Protein and Nucleotide Sequence. Analytical Chemistry, 2011, 83, 3050-3057.	3.2	132
3	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. Journal of the American Chemical Society, 2020, 142, 1265-1277.	6.6	131
4	Targetâ€Induced Catalytic Assembly of Yâ€Shaped DNA and Its Application for Inâ€Situ Imaging of MicroRNAs. Angewandte Chemie - International Edition, 2018, 57, 9739-9743.	7.2	118
5	Electrochemical Aptameric Recognition System for a Sensitive Protein Assay Based on Specific Target Binding-Induced Rolling Circle Amplification. Analytical Chemistry, 2010, 82, 2282-2289.	3.2	103
6	Optical detection of DNA hybridization based on fluorescence quenching of tagged oligonucleotide probes by gold nanoparticles. Analytical Biochemistry, 2006, 353, 22-29.	1.1	92
7	Nucleic Acids Analysis. Science China Chemistry, 2021, 64, 171-203.	4.2	88
8	Self-Protected DNAzyme Walker with a Circular Bulging DNA Shield for Amplified Imaging of miRNAs in Living Cells and Mice. ACS Nano, 2021, 15, 19211-19224.	7.3	84
9	Homogeneous, unmodified gold nanoparticle-based colorimetric assay of hydrogen peroxide. Analytica Chimica Acta, 2007, 584, 122-128.	2.6	77
10	Reversible electronic nanoswitch based on DNA G-quadruplex conformation: A platform for single-step, reagentless potassium detection. Biomaterials, 2008, 29, 2689-2696.	5.7	75
11	Universal Aptameric System for Highly Sensitive Detection of Protein Based on Structure-Switching-Triggered Rolling Circle Amplification. Analytical Chemistry, 2010, 82, 2221-2227.	3.2	74
12	Intracellular Nonenzymatic <i>In Situ</i> Growth of Three-Dimensional DNA Nanostructures for Imaging Specific Biomolecules in Living Cells. ACS Nano, 2020, 14, 9572-9584.	7.3	66
13	Programmably tiling rigidified DNA brick on gold nanoparticle as multi-functional shell for cancer-targeted delivery of siRNAs. Nature Communications, 2021, 12, 2928.	5.8	62
14	Gold colloid-bienzyme conjugates for glucose detection utilizing surface-enhanced Raman scattering. Talanta, 2006, 70, 533-539.	2.9	60
15	Periodically Ordered, Nucleaseâ€Resistant DNA Nanowires Decorated with Cellâ€Specific Aptamers as Selective Theranostic Agents. Angewandte Chemie - International Edition, 2020, 59, 17540-17547.	7.2	60
16	Y-Shaped Backbone-Rigidified Triangular DNA Scaffold-Directed Stepwise Movement of a DNAzyme Walker for Sensitive MicroRNA Imaging within Living Cells. Analytical Chemistry, 2019, 91, 15678-15685.	3.2	59
17	Palindromic Molecule Beacon-Based Cascade Amplification for Colorimetric Detection of Cancer Genes. Analytical Chemistry, 2018, 90, 3335-3340.	3.2	56
18	Ribbon of DNA Lattice on Gold Nanoparticles for Selective Drug Delivery to Cancer Cells. Angewandte Chemie - International Edition, 2020, 59, 14584-14592.	7.2	56

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19	Oriented Tetrahedron-Mediated Protection of Catalytic DNA Molecular-Scale Detector against in Vivo Degradation for Intracellular miRNA Detection. Analytical Chemistry, 2019, 91, 11529-11536.	3.2	55
20	Ultrasensitive assay based on a combined cascade amplification by nicking-mediated rolling circle amplification and symmetric strand-displacement amplification. Analytica Chimica Acta, 2019, 1047, 172-178.	2.6	49
21	Engineering interlocking DNA rings with weak physical interactions. Nature Communications, 2014, 5, 4279.	5.8	48
22	Hybridization chain reaction and its applications in biosensing. Talanta, 2021, 234, 122637.	2.9	48
23	Label-free colorimetric detection of cancer related gene based on two-step amplification of molecular machine. Biosensors and Bioelectronics, 2017, 90, 314-320.	5.3	46
24	Highly sensitive DNA detection and point mutation identification: an electrochemical approach based on the combined use of ligase and reverse molecular beacon. Human Mutation, 2007, 28, 630-637.	1.1	43
25	A sensitive immunoassay based on electropolymerized films by capacitance measurements for direct detection of immunospecies. Analytical Biochemistry, 2005, 337, 308-315.	1.1	42
26	Inhibitory Effect of Target Binding on Hairpin Aptamer Sticky-End Pairing-Induced Gold Nanoparticle Assembly for Light-up Colorimetric Protein Assay. Analytical Chemistry, 2010, 82, 3890-3898.	3.2	40
27	Cascade DNA nanomachine and exponential amplification biosensing. Biosensors and Bioelectronics, 2015, 73, 19-25.	5.3	40
28	DNA nanostructures from palindromic rolling circle amplification for the fluorescent detection of cancer-related microRNAs. Talanta, 2019, 192, 175-181.	2.9	40
29	Autonomous assembly of ordered metastable DNA nanoarchitecture and in situ visualizing of intracellular microRNAs. Biomaterials, 2017, 120, 57-65.	5.7	38
30	Branched DNA Junction-Enhanced Isothermal Circular Strand Displacement Polymerization for Intracellular Imaging of MicroRNAs. Analytical Chemistry, 2018, 90, 13891-13899.	3.2	36
31	Double-stem Hairpin Probe and Ultrasensitive Colorimetric Detection of Cancer-related Nucleic Acids. Theranostics, 2016, 6, 318-327.	4.6	34
32	Bead-String-Shaped DNA Nanowires with Intrinsic Structural Advantages and Their Potential for Biomedical Applications. ACS Applied Materials & Interfaces, 2020, 12, 3341-3353.	4.0	34
33	Immunomagnetic antibody plus aptamer pseudo-DNA nanocatenane followed by rolling circle amplication for highly-sensitive CTC detection. Biosensors and Bioelectronics, 2018, 122, 239-246.	5.3	32
34	Two-wheel drive-based DNA nanomachine and its sensing potential for highly sensitive analysis of cancer-related gene. Biomaterials, 2016, 100, 110-117.	5.7	31
35	Intelligent DNA machine for the ultrasensitive colorimetric detection of nucleic acids. Biosensors and Bioelectronics, 2016, 75, 41-47.	5.3	31
36	Biostable Aptamer Rings Conjugated for Targeting Two Biomarkers on Circulating Tumor Cells in Vivo with Great Precision. Chemistry of Materials, 2017, 29, 10312-10325.	3.2	31

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37	G-rich oligonucleotide-functionalized gold nanoparticle aggregation. Analytical and Bioanalytical Chemistry, 2007, 387, 2623-2626.	1.9	29
38	New molecular beacon for p53 gene point mutation and significant potential in serving as the polymerization primer. Biosensors and Bioelectronics, 2015, 66, 504-511.	5.3	29
39	Single palindromic molecular beacon-based amplification for genetic analysis of cancers. Biosensors and Bioelectronics, 2017, 91, 692-698.	5.3	28
40	Stimuli-Responsive Autonomous-Motion Molecular Machine for Sensitive Simultaneous Fluorescence Imaging of Intracellular MicroRNAs. Analytical Chemistry, 2021, 93, 9869-9877.	3.2	28
41	Label-free optical bifunctional oligonucleotide probe for homogeneous amplification detection of disease markers. Biosensors and Bioelectronics, 2011, 29, 66-75.	5.3	27
42	Exponential rolling circle amplification and its sensing application for highly sensitive DNA detection of tumor suppressor gene. Sensors and Actuators B: Chemical, 2017, 243, 1240-1247.	4.0	27
43	Nonenzymatic Autonomous Assembly of Cross-Linked Network Structures from Only Two Palindromic DNA Components for Intracellular Fluorescence Imaging of miRNAs. ACS Sensors, 2022, 7, 601-611.	4.0	27
44	Increasingly branched rolling circle amplification for the cancer gene detection. Biosensors and Bioelectronics, 2016, 86, 1067-1073.	5.3	25
45	Programmable nanoassembly consisting of two hairpin-DNAs for p53 gene determination. Biosensors and Bioelectronics, 2017, 94, 626-631.	5.3	24
46	A label-free colorimetric isothermal cascade amplification for the detection of disease-related nucleic acids based on double-hairpin molecular beacon. Analytica Chimica Acta, 2017, 957, 55-62.	2.6	23
47	Novel multifunction-integrated molecular beacon for the amplification detection of DNA hybridization based on primer/template-free isothermal polymerization. Biosensors and Bioelectronics, 2015, 72, 182-190.	5.3	22
48	Combination of Immunomagnetic Separation with Aptamer-Mediated Double Rolling Circle Amplification for Highly Sensitive Circulating Tumor Cell Detection. ACS Sensors, 2020, 5, 3870-3878.	4.0	22
49	Rigidified DNA Triangle-Protected Molecular Beacon from Endogenous Nuclease Digestion for Monitoring microRNA Expression in Living Cells. ACS Sensors, 2020, 5, 2378-2387.	4.0	21
50	Dual-cyclical nucleic acid strand-displacement polymerization based signal amplification system for highly sensitive determination of p53 gene. Biosensors and Bioelectronics, 2016, 86, 1024-1030.	5.3	20
51	Nuclease-resistant signaling nanostructures made entirely of DNA oligonucleotides. Nanoscale, 2021, 13, 7034-7051.	2.8	20
52	Intermolecular G-quadruplex-based universal quencher free molecular beacon. Chemical Communications, 2012, 48, 10760.	2.2	18
53	Intracellular self-enhanced rolling circle amplification to image specific miRNAs within tumor cells. Sensors and Actuators B: Chemical, 2019, 282, 507-514.	4.0	18
54	Loopback rolling circle amplification for ultrasensitive detection of Kras gene. Talanta, 2017, 164, 511-517.	2.9	17

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55	Targetâ€Induced Catalytic Assembly of Yâ€Shaped DNA and Its Application for Inâ€Situ Imaging of MicroRNAs. Angewandte Chemie, 2018, 130, 9887-9891.	1.6	17
56	Ultrasensitive Electrochemical Detection of cancer-Related Point Mutations Based on Surface-Initiated Three-Dimensionally Self-Assembled DNA Nanostructures from Only Two Palindromic Probes. Analytical Chemistry, 2022, 94, 1029-1036.	3.2	17
57	Fluorescent oligonucleotide probe based on G-quadruplex scaffold for signal-on ultrasensitive protein assay. Biomaterials, 2010, 31, 1918-1924.	5.7	15
58	Discovery of the unique self-assembly behavior of terminal suckers-contained dsDNA onto GNP and novel "light-up―colorimetric assay of nucleic acids. Biosensors and Bioelectronics, 2015, 64, 292-299.	5.3	13
59	Intracellular in situ assembly of palindromic DNA hydrogel for predicting malignant invasion and preventing tumorigenesis. Chemical Engineering Journal, 2022, 428, 131150.	6.6	13
60	Twin target self-amplification-based DNA machine for highly sensitive detection of cancer-related gene. Analytica Chimica Acta, 2018, 1011, 86-93.	2.6	12
61	Target-catalyzed hairpin structure-mediated padlock cyclization for ultrasensitive rolling circle amplification. Talanta, 2019, 204, 29-35.	2.9	12
62	A Biofunctional Molecular Beacon for Detecting Single Base Mutations in Cancer Cells. Molecular Therapy - Nucleic Acids, 2016, 5, e302.	2.3	11
63	Inverted mirror image molecular beacon-based three concatenated logic gates to detect p53 tumor suppressor gene. Analytica Chimica Acta, 2019, 1051, 179-186.	2.6	11
64	Simple Self-Assembled Targeting DNA Nano Sea Urchin as a Multivalent Drug Carrier. ACS Applied Bio Materials, 2020, 3, 4514-4521.	2.3	10
65	Periodically Ordered, Nucleaseâ€Resistant DNA Nanowires Decorated with Cellâ€6pecific Aptamers as Selective Theranostic Agents. Angewandte Chemie, 2020, 132, 17693-17700.	1.6	10
66	FMRP regulates STAT3 mRNA localization to cellular protrusions and local translation to promote hepatocellular carcinoma metastasis. Communications Biology, 2021, 4, 540.	2.0	9
67	Palindromic probe-mediated strand displacement amplification for highly sensitive and selective microRNA imaging. Talanta, 2020, 219, 121295.	2.9	7
68	Swelling of Serum-Stable DNA Nanoparticles upon Target-Induced Conformational Rearrangement of Sensing Probes for the Signal-On Detection of Cancer-Related Genes. Analytical Chemistry, 2022, 94, 2749-2756.	3.2	7
69	Design and application of DNA nanostructures for organelle-targeted delivery of anticancer drugs. Expert Opinion on Drug Delivery, 2022, 19, 707-723.	2.4	7
70	Structural requirement of G-quadruplex/aptamer-combined DNA macromolecule serving as efficient drug carrier for cancer-targeted drug delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 159, 221-227.	2.0	6
71	Stimuli-Induced Upgrade of Nuclease-Resistant DNA Nanostructure Composed of a Single Molecular Beacon for Detecting Mutant Genes. ACS Sensors, 2021, 6, 4029-4037.	4.0	6
72	Structure-switchable aptamer-arranged reconfigurable DNA nanonetworks for targeted cancer therapy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2022, 43, 102553.	1.7	5

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73	Biocomputing label-free security system based on homogenous ligation chain reaction-induced dramatic change in melting temperature for screening single nucleotide polymorphisms. Talanta, 2020, 218, 121141.	2.9	4
74	Tumor-targeting [2]catenane-based grid-patterned periodic DNA monolayer array for <i>in vivo</i> theranostic application. Journal of Materials Chemistry B, 2022, 10, 1969-1979.	2.9	4
75	A sensing system constructed by combining a structure-switchable molecular beacon with nicking-enhanced rolling circle amplification for highly sensitive miRNA detection. Analyst, The, 2022, 147, 1937-1943.	1.7	4
76	Visually predicting microRNA-regulated tumor metastasis by intracellularly 3D counting of fluorescent spots based on in situ growth of DNA flares. Journal of Advanced Research, 2023, 43, 73-85.	4.4	4
77	Hairpin-inserted cross-shaped DNA nanoprobe for ultrasensitive microRNA detection based on built-in target analogue cycle amplification. Talanta, 2022, 250, 123717.	2.9	4
78	Topological DNA Assemblies Containing Identical or Fraternal Twins. ChemBioChem, 2016, 17, 1142-1145.	1.3	3
79	The hierarchical assembly of a multi-level DNA ring-based nanostructure in a precise order and its application for screening tumor cells. Biomaterials Science, 2021, 9, 2262-2270.	2.6	1