

Xiaolei Zuo

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.

130
papers

7,739
citations

44
h-index

86
g-index

141
ext. papers

9,062
ext. citations

11.3
avg, IF

6.08
L-index

#	Paper	IF	Citations
130	Programmable DNA Hydrogels as Artificial Extracellular Matrix.. <i>Small</i> , 2022 , e2107640	11	5
129	DNA Walkers for Biosensing Development.. <i>Advanced Science</i> , 2022 , e2200327	13.6	4
128	Molecular Visualization of Early-Stage Acute Kidney Injury with a DNA Framework Nanodevice.. <i>Advanced Science</i> , 2022 , e2105947	13.6	2
127	Engineering nucleic acid functional probes in neuroimaging. <i>TrAC - Trends in Analytical Chemistry</i> , 2022 , 154, 116651	14.6	0
126	Dynamic regulation of DNA nanostructures by noncanonical nucleic acids. <i>NPG Asia Materials</i> , 2021 , 13,	10.3	3
125	Immunostimulatory AIE Dots for Live-Cell Imaging and Drug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19660-19667	9.5	3
124	Electrochemical Analysis for Multiscale Single Entities on the Confined Interface. <i>Chinese Journal of Chemistry</i> , 2021 , 39, 1745-1752	4.9	4
123	DNA Framework-based Topological Aptamer for Differentiating Subtypes of Hepatocellular Carcinoma Cells. <i>Chemical Research in Chinese Universities</i> , 2021 , 37, 919-924	2.2	2
122	Sequential Therapy of Acute Kidney Injury with a DNA Nanodevice. <i>Nano Letters</i> , 2021 , 21, 4394-4402	11.5	13
121	Prescribing Silver Chirality with DNA Origami. <i>Journal of the American Chemical Society</i> , 2021 , 143, 8639-8646	16.4	12
120	Remote Photothermal Control of DNA Origami Assembly in Cellular Environments. <i>Nano Letters</i> , 2021 , 21, 5834-5841	11.5	3
119	Encoding Fluorescence Anisotropic Barcodes with DNA Frameworks. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10735-10742	16.4	6
118	Nucleic Acid Tests for Clinical Translation. <i>Chemical Reviews</i> , 2021 , 121, 10469-10558	68.1	23
117	Biosensors based on DNA logic gates. <i>View</i> , 2021 , 2, 20200038	7.8	4
116	Probing Transient DNA Conformation Changes with an Intercalative Fluorescent Excimer. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6624-6630	16.4	2
115	DNA nanotechnology-empowered nanoscopic imaging of biomolecules. <i>Chemical Society Reviews</i> , 2021 , 50, 5650-5667	58.5	24
114	Programming folding cooperativity of the dimeric i-motif with DNA frameworks for sensing small pH variations. <i>Chemical Communications</i> , 2021 , 57, 3247-3250	5.8	5

113	Encoding DNA Frameworks for Amplified Multiplexed Imaging of Intracellular microRNAs. <i>Analytical Chemistry</i> , 2021 , 93, 2226-2234	7.8	18
112	Imaging the in vivo growth patterns of bacteria in human gut Microbiota. <i>Gut Microbes</i> , 2021 , 13, 19601348	3.8	4
111	Probing Transient DNA Conformation Changes with an Intercalative Fluorescent Excimer. <i>Angewandte Chemie</i> , 2021 , 133, 6698-6704	3.6	
110	Reconstructing Soma-Soma Synapse-like Vesicular Exocytosis with DNA Origami. <i>ACS Central Science</i> , 2021 , 7, 1400-1407	16.8	6
109	Modular DNA Circuits for Point-of-Care Colorimetric Assay of Infectious Pathogens. <i>Analytical Chemistry</i> , 2021 , 93, 13861-13869	7.8	2
108	DNA Framework-Mediated Geometric Renormalization of Gold Nanoparticles on a Two-Dimensional Fluidic Membrane Interface. <i>ChemPlusChem</i> , 2021 , 86, 1472-1475	2.8	1
107	Driving DNA Origami Assembly with a Terahertz Wave.. <i>Nano Letters</i> , 2021 ,	11.5	5
106	Encoding quantized fluorescence states with fractal DNA frameworks. <i>Nature Communications</i> , 2020 , 11, 2185	17.4	15
105	Ultrafast DNA Sensors with DNA Framework-Bridged Hybridization Reactions. <i>Journal of the American Chemical Society</i> , 2020 , 142, 9975-9981	16.4	17
104	Programming Biomimetically Confined Aptamers with DNA Frameworks. <i>ACS Nano</i> , 2020 , 14, 8776-8783	16.7	9
103	Encapsulation and release of living tumor cells using hydrogels with the hybridization chain reaction. <i>Nature Protocols</i> , 2020 , 15, 2163-2185	18.8	25
102	Nucleic Acid Nanoprobes for Biosensor Development in Complex Matrices. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 185-193	2.2	1
101	DNA Framework-Based Topological Cell Sorters. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10406-10410	16.4	20
100	DNA Framework-Based Topological Cell Sorters. <i>Angewandte Chemie</i> , 2020 , 132, 10492-10496	3.6	2
99	DNA Framework-Mediated Electrochemical Biosensing Platform for Amplification-Free MicroRNA Analysis. <i>Analytical Chemistry</i> , 2020 , 92, 4498-4503	7.8	14
98	Programming bulk enzyme heterojunctions for biosensor development with tetrahedral DNA framework. <i>Nature Communications</i> , 2020 , 11, 838	17.4	44
97	Deformation-Resistant, Double-Layer DNA Self-Assembled Nanoraft with High Positioning Precision.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 2610-2616	4.1	1
96	Nanoparticle-Assisted Alignment of Carbon Nanotubes on DNA Origami. <i>Angewandte Chemie</i> , 2020 , 132, 4922-4926	3.6	3

95	COVID-19: A Call for Physical Scientists and Engineers. <i>ACS Nano</i> , 2020 , 14, 3747-3754	16.7	129
94	DNA Framework-Programmed Micronano Hierarchy Sensor Interface for Metabolite Analysis in Whole Blood.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 53-58	4.1	3
93	Nanoparticle-Assisted Alignment of Carbon Nanotubes on DNA Origami. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4892-4896	16.4	16
92	Programming nanoparticle valence bonds with single-stranded DNA encoders. <i>Nature Materials</i> , 2020 , 19, 781-788	27	88
91	Catalytic Nucleic Acids for Bioanalysis.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 2674-2685	4.1	7
90	DNA Framework-Supported Electrochemical Analysis of DNA Methylation for Prostate Cancers. <i>Nano Letters</i> , 2020 , 20, 7028-7035	11.5	9
89	DNA Origami Radiometers for Measuring Ultraviolet Exposure. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8782-8789	16.4	13
88	DNA framework-engineered electrochemical biosensors. <i>Science China Life Sciences</i> , 2020 , 63, 1130-1141	8.5	8
87	Nucleic Acids Analysis. <i>Science China Chemistry</i> , 2020 , 64, 1-33	7.9	33
86	Bacterial Extracellular Electron Transfer Occurs in Mammalian Gut. <i>Analytical Chemistry</i> , 2019 , 91, 12138-12141	11.9	19
85	Quantizing single-molecule surface-enhanced Raman scattering with DNA origami metamolecules. <i>Science Advances</i> , 2019 , 5, eaau4506	14.3	67
84	In-Situ Configuration Studies on Segmented DNA Origami Nanotubes. <i>ChemBioChem</i> , 2019 , 20, 1508-1513	3.8	1
83	Rapid Transmembrane Transport of DNA Nanostructures by Chemically Anchoring Artificial Receptors on Cell Membranes. <i>ChemPlusChem</i> , 2019 , 84, 323-327	2.8	3
82	Gold nanoflower-based surface-enhanced Raman probes for pH mapping of tumor cell microenvironment. <i>Cell Proliferation</i> , 2019 , 52, e12618	7.9	7
81	Stepping gating of ion channels on nanoelectrode via DNA hybridization for label-free DNA detection. <i>Biosensors and Bioelectronics</i> , 2019 , 133, 141-146	11.8	5
80	Encoding Carbon Nanotubes with Tubular Nucleic Acids for Information Storage. <i>Journal of the American Chemical Society</i> , 2019 , 141, 17861-17866	16.4	27
79	DNA Framework-Programmed Cell Capture via Topology-Engineered Receptor-Ligand Interactions. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18910-18915	16.4	72
78	Programming chain-growth copolymerization of DNA hairpin tiles for in-vitro hierarchical supramolecular organization. <i>Nature Communications</i> , 2019 , 10, 1006	17.4	18

77	Programming Accessibility of DNA Monolayers for Degradation-Free Whole-Blood Biosensors 2019 , 1, 671-676		10
76	Programming biosensing sensitivity by controlling the dimension of nanostructured electrode. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 4085-4092	4.4	3
75	Engineering electrochemical interface for biomolecular sensing. <i>Current Opinion in Electrochemistry</i> , 2019 , 14, 71-80	7.2	18
74	Photoactivated Nanoflares for mRNA Detection in Single Living Cells. <i>Analytical Chemistry</i> , 2019 , 91, 2021-2027	7.8	20
73	Constructing Submonolayer DNA Origami Scaffold on Gold Electrode for Wiring of Redox Enzymatic Cascade Pathways. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13881-13887	9.5	14
72	Poly-adenine-mediated spherical nucleic acids for strand displacement-based DNA/RNA detection. <i>Biosensors and Bioelectronics</i> , 2019 , 127, 85-91	11.8	23
71	Molecular Threading-Dependent Mass Transport in Paper Origami for Single-Step Electrochemical DNA Sensors. <i>Nano Letters</i> , 2019 , 19, 369-374	11.5	26
70	Biomacromolecular nanostructures-based interfacial engineering: from precise assembly to precision biosensing. <i>National Science Review</i> , 2018 , 5, 740-755	10.8	44
69	DNA Nanotechnology-Enabled Interfacial Engineering for Biosensor Development. <i>Annual Review of Analytical Chemistry</i> , 2018 , 11, 171-195	12.5	64
68	Valency-Controlled Framework Nucleic Acid Signal Amplifiers. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7131-7135	16.4	70
67	Valency-Controlled Framework Nucleic Acid Signal Amplifiers. <i>Angewandte Chemie</i> , 2018 , 130, 7249-7253	3.6	5
66	Naked-eye point-of-care testing platform based on a pH-responsive superwetting surface: toward the non-invasive detection of glucose. <i>NPG Asia Materials</i> , 2018 , 10, 177-189	10.3	42
65	Innentitelbild: Valency-Controlled Framework Nucleic Acid Signal Amplifiers (Angew. Chem. 24/2018). <i>Angewandte Chemie</i> , 2018 , 130, 7066-7066	3.6	
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	Nucleic acid-based electrochemical nanobiosensors. <i>Biosensors and Bioelectronics</i> , 2018 , 102, 479-489	11.8	58
62	An ultrasensitive electrochemical biosensor for the detection of mecA gene in methicillin-resistant <i>Staphylococcus aureus</i> . <i>Biosensors and Bioelectronics</i> , 2018 , 99, 424-430	11.8	34
61	DNA Nanostructure-Programmed Like-Charge Attraction at the Cell-Membrane Interface. <i>ACS Central Science</i> , 2018 , 4, 1344-1351	16.8	102
60	Nanodiamond autophagy inhibitor allosterically improves the arsenical-based therapy of solid tumors. <i>Nature Communications</i> , 2018 , 9, 4347	17.4	52

59	Stimuli-Responsive DNA-Switchable Biointerfaces. <i>Langmuir</i> , 2018 , 34, 15055-15068	4	12
58	Poly-adenine-mediated fluorescent spherical nucleic acid probes for live-cell imaging of endogenous tumor-related mRNA. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018 , 14, 1797-1807	6	11
57	Fluorescent biosensors enabled by graphene and graphene oxide. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 96-106	11.8	155
56	An Exonuclease III-Powered, On-Particle Stochastic DNA Walker. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1855-1858	16.4	248
55	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
54	An Exonuclease III-Powered, On-Particle Stochastic DNA Walker. <i>Angewandte Chemie</i> , 2017 , 129, 1881-1884	16.4	31
53	Valence-Engineering of Quantum Dots Using Programmable DNA Scaffolds. <i>Angewandte Chemie</i> , 2017 , 129, 16293-16297	3.6	6
52	Valence-Engineering of Quantum Dots Using Programmable DNA Scaffolds. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 16077-16081	16.4	41
51	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
50	Humidity-Responsive Single-Nanoparticle-Layer Plasmonic Films. <i>Advanced Materials</i> , 2017 , 29, 1606796	24	21
49	DNA Hydrogel with Aptamer-Toehold-Based Recognition, Cloaking, and Decloaking of Circulating Tumor Cells for Live Cell Analysis. <i>Nano Letters</i> , 2017 , 17, 5193-5198	11.5	144
48	Recognizing single phospholipid vesicle collisions on carbon fiber nanoelectrode. <i>Science China Chemistry</i> , 2017 , 60, 1474-1480	7.9	14
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	Aptamer-initiated on-particle template-independent enzymatic polymerization (aptamer-OPEP) for electrochemical analysis of tumor biomarkers. <i>Biosensors and Bioelectronics</i> , 2016 , 86, 536-541	11.8	31
44	Zero-Background Helicase-Dependent Amplification and Its Application to Reliable Assay of Telomerase Activity in Cancer Cell by Eliminating Primer-Dimer Artifacts. <i>ChemBioChem</i> , 2016 , 17, 1171-8	3.8	12
43	Electrochemical detection of nucleic acids, proteins, small molecules and cells using a DNA-nanostructure-based universal biosensing platform. <i>Nature Protocols</i> , 2016 , 11, 1244-63	18.8	234
42	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

41	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
40	DNA orientation-specific adhesion and patterning of living mammalian cells on self-assembled DNA monolayers. <i>Chemical Science</i> , 2016 , 7, 2722-2727	9.4	26
39	On-Electrode Synthesis of Shape-Controlled Hierarchical Flower-Like Gold Nanostructures for Efficient Interfacial DNA Assembly and Sensitive Electrochemical Sensing of MicroRNA. <i>Small</i> , 2016 , 12, 3794-801	11	81
38	A Surface-Confined Proton-Driven DNA Pump Using a Dynamic 3D DNA Scaffold. <i>Advanced Materials</i> , 2016 , 28, 6860-5	24	70
37	Dual-Target Electrochemical Biosensing Based on DNA Structural Switching on Gold Nanoparticle-Decorated MoS ₂ Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6826-33	9.5	128
36	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
35	Rational designed bipolar, conjugated polymer-DNA composite beacon for the sensitive detection of proteins and ions. <i>Analytical Chemistry</i> , 2015 , 87, 3890-4	7.8	41
34	Quantitative investigation of the poly-adenine DNA dissociation from the surface of gold nanoparticles. <i>Scientific Reports</i> , 2015 , 5, 10158	4.9	26
33	Universal Fluorescence Biosensor Platform Based on Graphene Quantum Dots and Pyrene-Functionalized Molecular Beacons for Detection of MicroRNAs. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 16152-6	9.5	102
32	Real-Time, Quantitative Lighting-up Detection of Telomerase in Urines of Bladder Cancer Patients by AIEgens. <i>Analytical Chemistry</i> , 2015 , 87, 6822-7	7.8	106
31	A study of pH-dependence of shrink and stretch of tetrahedral DNA nanostructures. <i>Nanoscale</i> , 2015 , 7, 6467-6470	7.7	13
30	A novel ultrasensitive electrochemical DNA sensor based on double tetrahedral nanostructures. <i>Biosensors and Bioelectronics</i> , 2015 , 71, 434-438	11.8	50
29	Graphene oxide-assisted nucleic acids assays using conjugated polyelectrolytes-based fluorescent signal transduction. <i>Analytical Chemistry</i> , 2015 , 87, 3877-83	7.8	44
28	Ultrasensitive Detection of Dual Cancer Biomarkers with Integrated CMOS-Compatible Nanowire Arrays. <i>Analytical Chemistry</i> , 2015 , 87, 11203-8	7.8	50
27	Poly-adenine-based programmable engineering of gold nanoparticles for highly regulated spherical DNAzymes. <i>Nanoscale</i> , 2015 , 7, 18671-6	7.7	29
26	Nanoprobe-Initiated Enzymatic Polymerization for Highly Sensitive Electrochemical DNA Detection. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25618-23	9.5	25
25	Binding-induced collapse of DNA nano-assembly for naked-eye detection of ATP with plasmonic gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2015 , 65, 171-5	11.8	25
24	Programmable Engineering of a Biosensing Interface with Tetrahedral DNA Nanostructures for Ultrasensitive DNA Detection. <i>Angewandte Chemie</i> , 2015 , 127, 2179-2183	3.6	39

23	Programmable engineering of a biosensing interface with tetrahedral DNA nanostructures for ultrasensitive DNA detection. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 2151-5	16.4	264
22	Analysis of telomerase activity based on a spired DNA tetrahedron TS primer. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 364-9	11.8	38
21	Ultrasensitive electrochemical detection of prostate-specific antigen by using antibodies anchored on a DNA nanostructural scaffold. <i>Analytical Chemistry</i> , 2014 , 86, 7337-42	7.8	131
20	Metal ion-mediated assembly of DNA nanostructures for cascade fluorescence resonance energy transfer-based fingerprint analysis. <i>Analytical Chemistry</i> , 2014 , 86, 7084-7	7.8	28
19	Gold nanoparticle-decorated MoS ₂ nanosheets for simultaneous detection of ascorbic acid, dopamine and uric acid. <i>RSC Advances</i> , 2014 , 4, 27625	3.7	180
18	Functional DNA nanostructures for theranostic applications. <i>Accounts of Chemical Research</i> , 2014 , 47, 550-9	24.3	306
17	Multivalent capture and detection of cancer cells with DNA nanostructured biosensors and multibranching hybridization chain reaction amplification. <i>Analytical Chemistry</i> , 2014 , 86, 7843-8	7.8	128
16	Hybridization chain reaction amplification of microRNA detection with a tetrahedral DNA nanostructure-based electrochemical biosensor. <i>Analytical Chemistry</i> , 2014 , 86, 2124-30	7.8	392
15	Target-responsive, DNA nanostructure-based E-DNA sensor for microRNA analysis. <i>Analytical Chemistry</i> , 2014 , 86, 2285-8	7.8	112
14	Quadratic isothermal amplification for the detection of microRNA. <i>Nature Protocols</i> , 2014 , 9, 597-607	18.8	47
13	Polymerase/nicking enzyme synergetic isothermal quadratic DNA machine and its application for one-step amplified biosensing of lead (II) ions at femtomole level and DNA methyltransferase. <i>NPG Asia Materials</i> , 2014 , 6, e131-e131	10.3	33
12	Novel rolling circle amplification and DNA origami-based DNA belt-involved signal amplification assay for highly sensitive detection of prostate-specific antigen (PSA). <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 20372-7	9.5	31
11	A bubble-mediated intelligent microscale electrochemical device for single-step quantitative bioassays. <i>Advanced Materials</i> , 2014 , 26, 4671-6	24	87
10	Scaffolded biosensors with designed DNA nanostructures. <i>NPG Asia Materials</i> , 2013 , 5, e51-e51	10.3	94
9	DNA biomolecular-electronic encoder and decoder devices constructed by multiplex biosensors. <i>NPG Asia Materials</i> , 2012 , 4, e1-e1	10.3	125
8	Two-step, PCR-free telomerase detection by using exonuclease III-aided target recycling. <i>ChemBioChem</i> , 2011 , 12, 2745-7	3.8	47
7	An electrochemical supersandwich assay for sensitive and selective DNA detection in complex matrices. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14346-8	16.4	202
6	Sensitive and selective amplified fluorescence DNA detection based on exonuclease III-aided target recycling. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1816-8	16.4	442

5	Graphene oxide-facilitated electron transfer of metalloproteins at electrode surfaces. <i>Langmuir</i> , 2010 , 26, 1936-9	4	194
4	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
3	High specificity, electrochemical sandwich assays based on single aptamer sequences and suitable for the direct detection of small-molecule targets in blood and other complex matrices. <i>Journal of the American Chemical Society</i> , 2009 , 131, 6944-5	16.4	363
2	A target-responsive electrochemical aptamer switch (TREAS) for reagentless detection of nanomolar ATP. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1042-3	16.4	526
1	Electrochemical Interrogation of Interactions between Surface-Confined DNA and Methylene Blue. <i>Sensors</i> , 2007 , 7, 2671-2680	3.8	60