

# Hao Pei

## 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.

111  
papers

7,558  
citations

47  
h-index

86  
g-index

127  
ext. papers

8,720  
ext. citations

11  
avg, IF

5.99  
L-index

#	Paper	IF	Citations
111	Self-assembled multivalent DNA nanostructures for noninvasive intracellular delivery of immunostimulatory CpG oligonucleotides. <i>ACS Nano</i> , <b>2011</b> , 5, 8783-9	16.7	555
110	A DNA nanostructure-based biomolecular probe carrier platform for electrochemical biosensing. <i>Advanced Materials</i> , <b>2010</b> , 22, 4754-8	24	404
109	Hybridization chain reaction amplification of microRNA detection with a tetrahedral DNA nanostructure-based electrochemical biosensor. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 2124-30	7.8	392
108	Designed diblock oligonucleotide for the synthesis of spatially isolated and highly hybridizable functionalization of DNA-gold nanoparticle nanoconjugates. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 11876-9	16.4	367
107	Smart drug delivery nanocarriers with self-assembled DNA nanostructures. <i>Advanced Materials</i> , <b>2013</b> , 25, 4386-96	24	313
106	Reconfigurable three-dimensional DNA nanostructures for the construction of intracellular logic sensors. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 9020-4	16.4	309
105	Functional DNA nanostructures for theranostic applications. <i>Accounts of Chemical Research</i> , <b>2014</b> , 47, 550-9	24.3	306
104	An Exonuclease III-Powered, On-Particle Stochastic DNA Walker. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 1855-1858	16.4	248
103	Silicon-nanowire-based CMOS-compatible field-effect transistor nanosensors for ultrasensitive electrical detection of nucleic acids. <i>Nano Letters</i> , <b>2011</b> , 11, 3974-8	11.5	218
102	DNA nanostructure-decorated surfaces for enhanced aptamer-target binding and electrochemical cocaine sensors. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 7418-23	7.8	211
101	A graphene-based sensor array for high-precision and adaptive target identification with ensemble aptamers. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 13843-9	16.4	196
100	DNA Nanostructure-based Interfacial engineering for PCR-free ultrasensitive electrochemical analysis of microRNA. <i>Scientific Reports</i> , <b>2012</b> , 2, 867	4.9	161
99	Self-Assembly of Enzyme-Like Nanofibrous G-Molecular Hydrogel for Printed Flexible Electrochemical Sensors. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706887	24	159
98	Nanomaterial-Based Fluorescent DNA Analysis: A Comparative Study of the Quenching Effects of Graphene Oxide, Carbon Nanotubes, and Gold Nanoparticles. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 4140-4148	15.6	154
97	Rationally Engineered Nucleic Acid Architectures for Biosensing Applications. <i>Chemical Reviews</i> , <b>2019</b> , 119, 11631-11717	68.1	114
96	Programmable and Multifunctional DNA-Based Materials for Biomedical Applications. <i>Advanced Materials</i> , <b>2018</b> , 30, e1703658	24	112
95	Target-responsive, DNA nanostructure-based E-DNA sensor for microRNA analysis. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 2285-8	7.8	112

94	Scaffolded biosensors with designed DNA nanostructures. <i>NPG Asia Materials</i> , <b>2013</b> , 5, e51-e51	10.3	94
93	Clicking DNA to gold nanoparticles: poly-adenine-mediated formation of monovalent DNA-gold nanoparticle conjugates with nearly quantitative yield. <i>NPG Asia Materials</i> , <b>2015</b> , 7, e159-e159	10.3	91
92	Regenerable electrochemical immunological sensing at DNA nanostructure-decorated gold surfaces. <i>Chemical Communications</i> , <b>2011</b> , 47, 6254-6	5.8	90
91	PolyA-Mediated DNA Assembly on Gold Nanoparticles for Thermodynamically Favorable and Rapid Hybridization Analysis. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 4949-54	7.8	90
90	Charge transport within a three-dimensional DNA nanostructure framework. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 13148-51	16.4	89
89	Gold-nanoparticle-mediated jigsaw-puzzle-like assembly of supersized plasmonic DNA origami. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 2966-9	16.4	88
88	Programming nanoparticle valence bonds with single-stranded DNA encoders. <i>Nature Materials</i> , <b>2020</b> , 19, 781-788	27	88
87	Programming Cell Adhesion for On-Chip Sequential Boolean Logic Functions. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 10176-10179	16.4	85
86	Reconfigurable Three-Dimensional DNA Nanostructures for the Construction of Intracellular Logic Sensors. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 9154-9158	3.6	83
85	Self-assembly of poly-adenine-tailed CpG oligonucleotide-gold nanoparticle nanoconjugates with immunostimulatory activity. <i>Small</i> , <b>2014</b> , 10, 368-75	11	79
84	Probing Cellular Molecules with PolyA-Based Engineered Aptamer Nanobeacon. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 8014-8020	9.5	77
83	Electrochemical single nucleotide polymorphisms genotyping on surface immobilized three-dimensional branched DNA nanostructure. <i>Science China Chemistry</i> , <b>2011</b> , 54, 1273-1276	7.9	77
82	A Surface-Confined Proton-Driven DNA Pump Using a Dynamic 3D DNA Scaffold. <i>Advanced Materials</i> , <b>2016</b> , 28, 6860-5	24	70
81	Mitochondria-Targeted DNA Nanoprobe for Real-Time Imaging and Simultaneous Quantification of Ca and pH in Neurons. <i>ACS Nano</i> , <b>2018</b> , 12, 12357-12368	16.7	70
80	Electrochemical switching with 3D DNA tetrahedral nanostructures self-assembled at gold electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 8928-31	9.5	69
79	Engineering Gold Nanorod-Copper Sulfide Heterostructures with Enhanced Photothermal Conversion Efficiency and Photostability. <i>Small</i> , <b>2018</b> , 14, e1703077	11	68
78	DNA-Encoded Raman-Active Anisotropic Nanoparticles for microRNA Detection. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 9850-9856	7.8	67
77	Design and applications of gold nanoparticle conjugates by exploiting biomolecule-gold nanoparticle interactions. <i>Nanoscale</i> , <b>2013</b> , 5, 2589-99	7.7	64

76	Affinity-Modulated Molecular Beacons on MoS Nanosheets for MicroRNA Detection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 35794-35800	9.5	63
75	MoS Nanoprobe for MicroRNA Quantification Based on Duplex-Specific Nuclease Signal Amplification. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 7852-7858	9.5	58
74	Dynamic and quantitative control of the DNA-mediated growth of gold plasmonic nanostructures. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 8338-42	16.4	58
73	A MoSEbased system for efficient immobilization of hemoglobin and biosensing applications. <i>Nanotechnology</i> , <b>2015</b> , 26, 274005	3.4	55
72	DNA-gold nanoparticle conjugates-based nanoplasmonic probe for specific differentiation of cell types. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 3227-31	7.8	52
71	Pattern recognition analysis of proteins using DNA-decorated catalytic gold nanoparticles. <i>Small</i> , <b>2013</b> , 9, 2844-9	11	52
70	DNA nanostructure-based ultrasensitive electrochemical microRNA biosensor. <i>Methods</i> , <b>2013</b> , 64, 276-82.6	4.6	51
69	Activity modulation and allosteric control of a scaffolded DNAzyme using a dynamic DNA nanostructure. <i>Chemical Science</i> , <b>2016</b> , 7, 1200-1204	9.4	49
68	Stochastic DNA Walkers in Droplets for Super-Multiplexed Bacterial Phenotype Detection. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 15448-15454	16.4	49
67	Programming Chemical Reaction Networks Using Intramolecular Conformational Motions of DNA. <i>ACS Nano</i> , <b>2018</b> , 12, 7093-7099	16.7	47
66	Programming Drug Delivery Kinetics for Active Burst Release with DNA Toehold Switches. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 20354-20364	16.4	47
65	Convection-Driven Pull-Down Assays in Nanoliter Droplets Using Scaffolded Aptamers. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 3468-3473	7.8	46
64	Bubble-Mediated Ultrasensitive Multiplex Detection of Metal Ions in Three-Dimensional DNA Nanostructure-Encoded Microchannels. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 16026-16034	9.5	46
63	Self-assembled DNA tetrahedral optofluidic lasers with precise and tunable gain control. <i>Lab on A Chip</i> , <b>2013</b> , 13, 3351-4	7.2	46
62	Poly-cytosine-mediated nanotags for SERS detection of Hg. <i>Nanoscale</i> , <b>2017</b> , 9, 14184-14191	7.7	46
61	Programming bulk enzyme heterojunctions for biosensor development with tetrahedral DNA framework. <i>Nature Communications</i> , <b>2020</b> , 11, 838	17.4	44
60	Stochastic DNA Dual-Walkers for Ultrafast Colorimetric Bacteria Detection. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 4990-4995	7.8	43
59	Valence-Engineering of Quantum Dots Using Programmable DNA Scaffolds. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 16077-16081	16.4	41

58	Chiral Metamolecules with Active Plasmonic Transition. <i>ACS Nano</i> , <b>2019</b> , 13, 4826-4833	16.7	39
57	Dynamic Modulation of DNA Hybridization Using Allosteric DNA Tetrahedral Nanostructures. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 8043-9	7.8	37
56	Logic Catalytic Interconversion of G-Molecular Hydrogel. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 4512-4518	9.5	36
55	An Exonuclease III-Powered, On-Particle Stochastic DNA Walker. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 1881-1884	9.4	31
54	Coordination-mediated programmable assembly of unmodified oligonucleotides on plasmonic silver nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 11047-52	9.5	29
53	Poly-adenine-based programmable engineering of gold nanoparticles for highly regulated spherical DNAzymes. <i>Nanoscale</i> , <b>2015</b> , 7, 18671-6	7.7	29
52	Stochastic RNA Walkers for Intracellular MicroRNA Imaging. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 11253-11258	7.8	28
51	Self-Assembly of Metallo-Nucleoside Hydrogels for Injectable Materials That Promote Wound Closure. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 19743-19750	9.5	27
50	Organizing End-Site-Specific SWCNTs in Specific Loci Using DNA. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 11923-11928	16.4	27
49	Ultrasensitive Signal-On Detection of Nucleic Acids with Surface-Enhanced Raman Scattering and Exonuclease III-Assisted Probe Amplification. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 11684-11690	7.8	24
48	Fractal Nanoplasmonic Labels for Supermultiplex Imaging in Single Cells. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 11938-11946	16.4	23
47	Stochastic DNA Walkers in Droplets for Super-Multiplexed Bacterial Phenotype Detection. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 15594-15600	3.6	22
46	Assembly Pathway Selection with DNA Reaction Circuits for Programming Multiple Cell-Cell Interactions. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 3448-3454	16.4	22
45	Fractal SERS nanoprobe for multiplexed quantitative gene profiling. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 156, 112130	11.8	21
44	Humidity-Responsive Single-Nanoparticle-Layer Plasmonic Films. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606796	24	21
43	A versatile biomolecular detection platform based on photo-induced enhanced Raman spectroscopy. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 147, 111742	11.8	20
42	Optochemical Control of DNA-Switching Circuits for Logic and Probabilistic Computation. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 3397-3401	16.4	19
41	Framework Nucleic Acid-Mediated Pull-Down MicroRNA Detection with Hybridization Chain Reaction Amplification.. <i>ACS Applied Bio Materials</i> , <b>2018</b> , 1, 859-864	4.1	18

40	Real-Time Continuous Identification of Greenhouse Plant Pathogens Based on Recyclable Microfluidic Bioassay System. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 31568-31575	9.5	18
39	In situ terminus-regulated DNA hydrogelation for ultrasensitive on-chip microRNA assay. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 137, 263-270	11.8	17
38	Controllable self-assembly of parallel gold nanorod clusters by DNA origami. <i>Chinese Chemical Letters</i> , <b>2019</b> , 30, 175-178	8.1	17
37	DNA mediated self-assembly of multicellular microtissues. <i>Microphysiological Systems</i> , <b>2018</b> , 1, 1-1	1.3	17
36	Fabrication of Calcium Phosphate-Based Nanocomposites Incorporating DNA Origami, Gold Nanorods, and Anticancer Drugs for Biomedical Applications. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1700664	10.1	16
35	Hierarchically encapsulating enzymes with multi-shelled metal-organic frameworks for tandem biocatalytic reactions.. <i>Nature Communications</i> , <b>2022</b> , 13, 305	17.4	16
34	Rational Design of Framework Nucleic Acids for Bioanalytical Applications. <i>ChemPlusChem</i> , <b>2019</b> , 84, 512-523	2.8	15
33	Gold-Nanoparticle-Mediated Jigsaw-Puzzle-like Assembly of Supersized Plasmonic DNA Origami. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 3009-3012	3.6	15
32	Bio-functional G-molecular hydrogels for accelerated wound healing. <i>Materials Science and Engineering C</i> , <b>2019</b> , 105, 110067	8.3	14
31	A study of pH-dependence of shrink and stretch of tetrahedral DNA nanostructures. <i>Nanoscale</i> , <b>2015</b> , 7, 6467-6470	7.7	13
30	Biomineralized DNA nanospheres by metal organic framework for enhanced chemodynamic therapy. <i>Chemical Engineering Journal</i> , <b>2021</b> , 415, 129036	14.7	13
29	A Self-Calibrating Surface-Enhanced Raman Scattering-Active System for Bacterial Phenotype Detection. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 4491-4497	7.8	12
28	Multivalent Aptamer-modified DNA Origami as Drug Delivery System for Targeted Cancer Therapy. <i>Chemical Research in Chinese Universities</i> , <b>2020</b> , 36, 254-260	2.2	10
27	Nonlinear Regulation of Enzyme-Free DNA Circuitry with Ultrasensitive Switches. <i>ACS Synthetic Biology</i> , <b>2019</b> , 8, 2106-2112	5.7	9
26	pH-Operated Triplex DNA Device on MoS Nanosheets. <i>Langmuir</i> , <b>2019</b> , 35, 5050-5053	4	9
25	Nanomechanical identification of proteins using microcantilever-based chemical sensors. <i>Nanoscale</i> , <b>2012</b> , 4, 6739-42	7.7	9
24	Multi-Mode Reconfigurable DNA-Based Chemical Reaction Circuits for Soft Matter Computing and Control. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 15013-15019	16.4	9
23	DNA-Based Chemical Reaction Networks. <i>ChemBioChem</i> , <b>2019</b> , 20, 1105-1114	3.8	9

22	Bio-surface engineering with DNA scaffolds for theranostic applications. <i>Nanofabrication</i> , <b>2018</b> , 4, 1-16	4	7
21	Valence-Engineering of Quantum Dots Using Programmable DNA Scaffolds. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 16293-16297	3.6	6
20	Dynamic and Quantitative Control of the DNA-Mediated Growth of Gold Plasmonic Nanostructures. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 8478-8482	3.6	6
19	Biomedicine: Programmable and Multifunctional DNA-Based Materials for Biomedical Applications (Adv. Mater. 24/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870176	24	5
18	Stabilizing DNazymes through Encapsulation in a Metal-Organic Framework. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 12931-12935	4.8	4
17	Ultrasensitive Detection of Metal Ions with DNA Nanostructure. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1811, 137-149	1.4	4
16	Circularized blocker-displacement amplification for multiplex detection of rare DNA variants. <i>Chemical Communications</i> , <b>2020</b> , 56, 12331-12334	5.8	4
15	DNA-Scaffolded Disulfide Redox Network for Programming Drug-Delivery Kinetics. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 8745-8752	4.8	3
14	Multi-Mode Reconfigurable DNA-Based Chemical Reaction Circuits for Soft Matter Computing and Control. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 15140-15146	3.6	3
13	Optochemical Control of DNA-Switching Circuits for Logic and Probabilistic Computation. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 3439-3443	3.6	3
12	Nucleic Acid-Based Cell Surface Engineering Strategies and Their Applications.. <i>ACS Applied Bio Materials</i> , <b>2022</b> ,	4.1	2
11	??DNA/RNA?????????. <i>Chinese Science Bulletin</i> , <b>2013</b> , 58, 131-140	2.9	2
10	Quartz Crystal Microbalance Studies on Surface-Initiated DNA Hybridization Chain Reaction. <i>Acta Chimica Sinica</i> , <b>2012</b> , 70, 2127	3.3	2
9	A "time-frozen" technique in microchannel used for the thermodynamic studies of DNA origami. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 131, 224-231	11.8	2
8	Intracellular Logic Computation with Framework Nucleic Acid-Based Circuits for mRNA Imaging□ <i>Chinese Journal of Chemistry</i> , <b>2021</b> , 39, 947-953	4.9	2
7	Construction of Functional DNA Nanostructures for Theranostic Applications93-130		2
6	Perovskite Mediated Vibronic Coupling of Semiconducting SERS for Biosensing. <i>Advanced Functional Materials</i> ,2201799	15.6	2
5	Aptamer-Functionalized Fractal Nanoplasmonics-Assisted Laser Desorption/Ionization Mass Spectrometry for Metabolite Detection.. <i>ChemPlusChem</i> , <b>2022</b> , 87, e202100479	2.8	1

4	Programming Receptor Clustering with DNA Probabilistic Circuits for Enhanced Natural Killer Cell Recognition.. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> , e202203800	16.4	1
3	Innenrücktitelbild: Reconfigurable Three-Dimensional DNA Nanostructures for the Construction of Intracellular Logic Sensors ( <i>Angew. Chem.</i> 36/2012). <i>Angewandte Chemie</i> , <b>2012</b> , 124, 9321-9321	3.6	0
2	Innenrücktitelbild: Stochastic DNA Walkers in Droplets for Super-Multiplexed Bacterial Phenotype Detection ( <i>Angew. Chem.</i> 43/2019). <i>Angewandte Chemie</i> , <b>2019</b> , 131, 15699-15699	3.6	
1	Titelbild: Optochemical Control of DNA-Switching Circuits for Logic and Probabilistic Computation ( <i>Angew. Chem.</i> 7/2021). <i>Angewandte Chemie</i> , <b>2021</b> , 133, 3353-3353	3.6	