Peng Yin

List of Publications by Year
in descending order

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79 papers	12,809 citations	71102 41 h-index	69250 77 g-index
92 all docs	92 docs citations	92 times ranked	10874 citing authors

#	Article	IF	Citations
1	Programming biomolecular self-assembly pathways. Nature, 2008, 451, 318-322.	27.8	1,339
2	Three-Dimensional Structures Self-Assembled from DNA Bricks. Science, 2012, 338, 1177-1183.	12.6	1,062
3	Multiplexed 3D cellular super-resolution imaging with DNA-PAINT and Exchange-PAINT. Nature Methods, 2014, 11, 313-318.	19.0	881
4	Complex shapes self-assembled from single-stranded DNA tiles. Nature, 2012, 485, 623-626.	27.8	835
5	Toehold Switches: De-Novo-Designed Regulators of Gene Expression. Cell, 2014, 159, 925-939.	28.9	646
6	Paper-Based Synthetic Gene Networks. Cell, 2014, 159, 940-954.	28.9	597
7	Programming DNA Tube Circumferences. Science, 2008, 321, 824-826.	12.6	435
8	Optimizing the specificity of nucleic acid hybridization. Nature Chemistry, 2012, 4, 208-214.	13.6	347
9	Programmable self-assembly of three-dimensional nanostructures from 10,000 unique components. Nature, 2017, 552, 72-77.	27.8	335
10	Single-molecule super-resolution imaging of chromosomes and in situ haplotype visualization using Oligopaint FISH probes. Nature Communications, 2015, 6, 7147.	12.8	329
11	Quantitative super-resolution imaging with qPAINT. Nature Methods, 2016, 13, 439-442.	19.0	328
12	Complex cellular logic computation using ribocomputing devices. Nature, 2017, 548, 117-121.	27.8	321
13	Immuno-SABER enables highly multiplexed and amplified protein imaging in tissues. Nature Biotechnology, 2019, 37, 1080-1090.	17.5	301
14	Polyhedra Self-Assembled from DNA Tripods and Characterized with 3D DNA-PAINT. Science, 2014, 344, 65-69.	12.6	299
15	SABER amplifies FISH: enhanced multiplexed imaging of RNA and DNA in cells and tissues. Nature Methods, 2019, 16, 533-544.	19.0	271
16	Submicrometre geometrically encoded fluorescent barcodes self-assembled from DNA. Nature Chemistry, 2012, 4, 832-839.	13.6	252
17	Casting inorganic structures with DNA molds. Science, 2014, 346, 1258361.	12.6	251
18	Walking along chromosomes with super-resolution imaging, contact maps, and integrative modeling. PLoS Genetics, 2018, 14, e1007872.	3.5	209

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19	Optical imaging of individual biomolecules in densely packed clusters. Nature Nanotechnology, 2016, 11, 798-807.	31.5	204
20	Single-stranded DNA and RNA origami. Science, 2017, 358, .	12.6	202
21	Diverse and robust molecular algorithms using reprogrammable DNA self-assembly. Nature, 2019, 567, 366-372.	27.8	198
22	The emerging landscape of single-molecule protein sequencing technologies. Nature Methods, 2021, 18, 604-617.	19.0	198
23	Programmable autonomous synthesis of single-stranded DNA. Nature Chemistry, 2018, 10, 155-164.	13.6	190
24	Routing of individual polymers in designed patterns. Nature Nanotechnology, 2015, 10, 892-898.	31.5	189
25	DNA brick crystals with prescribed depths. Nature Chemistry, 2014, 6, 994-1002.	13.6	182
26	DNA-barcoded labeling probes for highly multiplexed Exchange-PAINT imaging. Chemical Science, 2017, 8, 3080-3091.	7.4	172
27	OligoMiner provides a rapid, flexible environment for the design of genome-scale oligonucleotide in situ hybridization probes. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2183-E2192.	7.1	168
28	Metallized DNA nanolithography for encoding and transferring spatial information for graphene patterning. Nature Communications, 2013, 4, 1663.	12.8	155
29	Reconfigurable Three-Dimensional Gold Nanorod Plasmonic Nanostructures Organized on DNA Origami Tripod. ACS Nano, 2017, 11, 1172-1179.	14.6	129
30	Multiplexed 3D super-resolution imaging of whole cells using spinning disk confocal microscopy and DNA-PAINT. Nature Communications, 2017, 8, 2090.	12.8	125
31	Rapid Sequential in Situ Multiplexing with DNA Exchange Imaging in Neuronal Cells and Tissues. Nano Letters, 2017, 17, 6131-6139.	9.1	116
32	Nanoscale Growth and Patterning of Inorganic Oxides Using DNA Nanostructure Templates. Journal of the American Chemical Society, 2013, 135, 6778-6781.	13.7	97
33	Precise pitch-scaling of carbon nanotube arrays within three-dimensional DNA nanotrenches. Science, 2020, 368, 874-877.	12.6	97
34	De novo-designed translation-repressing riboregulators for multi-input cellular logic. Nature Chemical Biology, 2019, 15, 1173-1182.	8.0	90
35	124-Color Super-resolution Imaging by Engineering DNA-PAINT Blinking Kinetics. Nano Letters, 2019, 19, 2641-2646.	9.1	82
36	Universal Superâ€Resolution Multiplexing by DNA Exchange. Angewandte Chemie - International Edition, 2017, 56, 4052-4055.	13.8	79

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37	Rotation tracking of genome-processing enzymes using DNA origami rotors. Nature, 2019, 572, 136-140.	27.8	79
38	In Situ Super-Resolution Imaging of Genomic DNA with OligoSTORM and OligoDNA-PAINT. Methods in Molecular Biology, 2017, 1663, 231-252.	0.9	69
39	Genetic encoding of DNA nanostructures and their self-assembly in living bacteria. Nature Communications, 2016, 7, 11179.	12.8	65
40	Three-dimensional nanoscopy of whole cells and tissues with in situ point spread function retrieval. Nature Methods, 2020, 17, 531-540.	19.0	64
41	Subâ€“100-nm metafluorophores with digitally tunable optical properties self-assembled from DNA. Science Advances, 2017, 3, e1602128.	10.3	58
42	Enhancing Biocompatible Stability of DNA Nanostructures Using Dendritic Oligonucleotides and Brick Motifs. Angewandte Chemie - International Edition, 2020, 59, 700-703.	13.8	46
43	DNA Nanostructures-Mediated Molecular Imprinting Lithography. ACS Nano, 2017, 11, 227-238.	14.6	43
44	Programming molecular topologies from single-stranded nucleic acids. Nature Communications, 2018, 9, 4579.	12.8	39
45	Programmably Shaped Carbon Nanostructure from Shape-Conserving Carbonization of DNA. ACS Nano, 2016, 10, 3069-3077.	14.6	37
46	Design Space for Complex DNA Structures. Journal of the American Chemical Society, 2013, 135, 18080-18088.	13.7	36
47	A DNA nanoscope via auto-cycling proximity recording. Nature Communications, 2017, 8, 696.	12.8	36
48	Programmable CRISPR-Cas Repression, Activation, and Computation with Sequence-Independent Targets and Triggers. ACS Synthetic Biology, 2019, 8, 1583-1589.	3.8	36
49	Complex multicomponent patterns rendered on a 3D DNA-barrel pegboard. Nature Communications, 2020, 11, 5768.	12.8	33
50	Multiplexed Exchange-PAINT imaging reveals ligand-dependent EGFR and Met interactions in the plasma membrane. Scientific Reports, 2017, 7, 12150.	3.3	29
51	Ribocomputing: Cellular Logic Computation Using RNA Devices. Biochemistry, 2018, 57, 883-885.	2.5	29
52	Three-dimensional nanolithography guided by DNA modular epitaxy. Nature Materials, 2021, 20, 683-690.	27.5	29
53	Superâ€resolution Geometric Barcoding for Multiplexed miRNA Profiling. Angewandte Chemie - International Edition, 2018, 57, 14075-14079.	13.8	23
54	A Compact DNA Cube with Side Length 10 nm. Small, 2015, 11, 5200-5205.	10.0	22

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55	Rapid in vitro production of single-stranded DNA. Nucleic Acids Research, 2019, 47, 11956-11962.	14.5	22
56	Complex Reconfiguration of DNA Nanostructures. Angewandte Chemie - International Edition, 2014, 53, 7475-7479.	13.8	21
57	Sub-3-Ã... cryo-EM structure of RNA enabled by engineered homomeric self-assembly. Nature Methods, 2022, 19, 576-585.	19.0	21
58	Super-resolution labelling with Action-PAINT. Nature Chemistry, 2019, 11, 1001-1008.	13.6	20
59	DyNAMiC Workbench: an integrated development environment for dynamic DNA nanotechnology. Journal of the Royal Society Interface, 2015, 12, 20150580.	3.4	17
60	Barcode extension for analysis and reconstruction of structures. Nature Communications, 2017, 8, 14698.	12.8	17
61	Cell-Free Characterization of Coherent Feed-Forward Loop-Based Synthetic Genetic Circuits. ACS Synthetic Biology, 2021, 10, 1406-1416.	3.8	15
62	Advanced Cell and Tissue Biomanufacturing. ACS Biomaterials Science and Engineering, 2018, 4, 2292-2307.	5.2	14
63	Understanding FÃ¶rster Resonance Energy Transfer in the Sheet Regime with DNA Brick-Based Dye Networks. ACS Nano, 2021, 15, 16452-16468.	14.6	14
64	Hierarchical Assembly of DNA Nanostructures Based on Four-Way Toehold-Mediated Strand Displacement. Nano Letters, 2018, 18, 4791-4795.	9.1	12
65	3D Freestanding DNA Nanostructure Hybrid as a Low-Density High-Strength Material. ACS Nano, 2020, 14, 6582-6588.	14.6	12
66	Axial plane single-molecule super-resolution microscopy of whole cells. Biomedical Optics Express, 2020, 11, 461.	2.9	12
67	Anomalous COVID-19 tests hinder researchers. Science, 2021, 371, 244-245.	12.6	11
68	Laboratory-Generated DNA Can Cause Anomalous Pathogen Diagnostic Test Results. Microbiology Spectrum, 2021, 9, e0031321.	3.0	10
69	Universelles SuperauflÃ¶sungsâ€Multiplexing durch DNAâ€Austausch. Angewandte Chemie, 2017, 129, 4111-4114.	2.0	8
70	Superâ€Resolution Spatial Proximity Detection with Proximityâ€PAINT. Angewandte Chemie - International Edition, 2021, 60, 716-720.	13.8	8
71	DNA Input Classification by a Riboregulator-Based Cell-Free Perceptron. ACS Synthetic Biology, 2022, 11, 1510-1520.	3.8	8
72	Voices in methods development. Nature Methods, 2019, 16, 945-951.	19.0	5

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73	Self-assembly of Complex Two-dimensional Shapes from Single-stranded DNA Tiles. Journal of Visualized Experiments, 2015, , e52486.	0.3	4
74	Superâ€resolution Geometric Barcoding for Multiplexed miRNA Profiling. Angewandte Chemie, 2018, 130, 14271-14275.	2.0	4
75	Dynamic Genome Editing Using In Vivo Synthesized Donor ssDNA in Escherichia coli. Cells, 2020, 9, 467.	4.1	2
76	Nanolithography Based on Metalized DNA Templates for Graphene Patterning. Current Protocols in Chemical Biology, 2014, 6, 53-64.	1.7	1
77	Ribocomputing devices for sophisticated in vivo logic computation. , 2016, , .		1
78	2SBA-02 Programming Nucleic Acids Self-Assembly(2SBA Reconstitution of life phenomena in a) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	0.1	0
79	Abstract 5648: Response and resistance to CDK2 and CDK4/6 inhibition in GIST. Cancer Research, 2022, 82, 5648-5648.	0.9	0