# Peng Yin

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 79 papers | 12,809 citations | 81434 41 h-index | 78623 77 g-index |
| 92 all docs | 92 docs citations | 92 times ranked | 12396 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | DNA Input Classification by a Riboregulator-Based Cell-Free Perceptron. ACS Synthetic Biology, 2022, 11, 1510-1520. | 1.9 | 8 |
| 2 | Sub-3-Ã... cryo-EM structure of RNA enabled by engineered homomeric self-assembly. Nature Methods, 2022, 19, 576-585. | 9.0 | 21 |
| 3 | Abstract 5648: Response and resistance to CDK2 and CDK4/6 inhibition in GIST. Cancer Research, 2022, 82, 5648-5648. | 0.4 | 0 |
| 4 | Superâ€Resolution Spatial Proximity Detection with Proximityâ€PAINT. Angewandte Chemie - International Edition, 2021, 60, 716-720. | 7.2 | 8 |
| 5 | Anomalous COVID-19 tests hinder researchers. Science, 2021, 371, 244-245. | 6.0 | 11 |
| 6 | Three-dimensional nanolithography guided by DNA modular epitaxy. Nature Materials, 2021, 20, 683-690. | 13.3 | 29 |
| 7 | Cell-Free Characterization of Coherent Feed-Forward Loop-Based Synthetic Genetic Circuits. ACS Synthetic Biology, 2021, 10, 1406-1416. | 1.9 | 15 |
| 8 | The emerging landscape of single-molecule protein sequencing technologies. Nature Methods, 2021, 18, 604-617. | 9.0 | 198 |
| 9 | Laboratory-Generated DNA Can Cause Anomalous Pathogen Diagnostic Test Results. Microbiology Spectrum, 2021, 9, e0031321. | 1.2 | 10 |
| 10 | Understanding FÃ¶rster Resonance Energy Transfer in the Sheet Regime with DNA Brick-Based Dye Networks. ACS Nano, 2021, 15, 16452-16468. | 7.3 | 14 |
| 11 | Enhancing Biocompatible Stability of DNA Nanostructures Using Dendritic Oligonucleotides and Brick Motifs. Angewandte Chemie - International Edition, 2020, 59, 700-703. | 7.2 | 46 |
| 12 | Complex multicomponent patterns rendered on a 3D DNA-barrel pegboard. Nature Communications, 2020, 11, 5768. | 5.8 | 33 |
| 13 | Three-dimensional nanoscopy of whole cells and tissues with in situ point spread function retrieval. Nature Methods, 2020, 17, 531-540. | 9.0 | 64 |
| 14 | Precise pitch-scaling of carbon nanotube arrays within three-dimensional DNA nanotrenches. Science, 2020, 368, 874-877. | 6.0 | 97 |
| 15 | Dynamic Genome Editing Using In Vivo Synthesized Donor ssDNA in Escherichia coli. Cells, 2020, 9, 467. | 1.8 | 2 |
| 16 | 3D Freestanding DNA Nanostructure Hybrid as a Low-Density High-Strength Material. ACS Nano, 2020, 14, 6582-6588. | 7.3 | 12 |
| 17 | Axial plane single-molecule super-resolution microscopy of whole cells. Biomedical Optics Express, 2020, 11, 461. | 1.5 | 12 |
| 18 | Immuno-SABER enables highly multiplexed and amplified protein imaging in tissues. Nature Biotechnology, 2019, 37, 1080-1090. | 9.4 | 301 |

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|---|---|---|---|
| 19 | Rotation tracking of genome-processing enzymes using DNA origami rotors. Nature, 2019, 572, 136-140. | 13.7 | 79 |
| 20 | Programmable CRISPR-Cas Repression, Activation, and Computation with Sequence-Independent Targets and Triggers. ACS Synthetic Biology, 2019, 8, 1583-1589. | 1.9 | 36 |
| 21 | De novo-designed translation-repressing riboregulators for multi-input cellular logic. Nature Chemical Biology, 2019, 15, 1173-1182. | 3.9 | 90 |
| 22 | Rapid in vitro production of single-stranded DNA. Nucleic Acids Research, 2019, 47, 11956-11962. | 6.5 | 22 |
| 23 | Super-resolution labelling with Action-PAINT. Nature Chemistry, 2019, 11, 1001-1008. | 6.6 | 20 |
| 24 | SABER amplifies FISH: enhanced multiplexed imaging of RNA and DNA in cells and tissues. Nature Methods, 2019, 16, 533-544. | 9.0 | 271 |
| 25 | Diverse and robust molecular algorithms using reprogrammable DNA self-assembly. Nature, 2019, 567, 366-372. | 13.7 | 198 |
| 26 | 124-Color Super-resolution Imaging by Engineering DNA-PAINT Blinking Kinetics. Nano Letters, 2019, 19, 2641-2646. | 4.5 | 82 |
| 27 | Voices in methods development. Nature Methods, 2019, 16, 945-951. | 9.0 | 5 |
| 28 | 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. | 3.3 | 168 |
| 29 | Ribocomputing: Cellular Logic Computation Using RNA Devices. Biochemistry, 2018, 57, 883-885. | 1.2 | 29 |
| 30 | Programmable autonomous synthesis of single-stranded DNA. Nature Chemistry, 2018, 10, 155-164. | 6.6 | 190 |
| 31 | Walking along chromosomes with super-resolution imaging, contact maps, and integrative modeling. PLoS Genetics, 2018, 14, e1007872. | 1.5 | 209 |
| 32 | Programming molecular topologies from single-stranded nucleic acids. Nature Communications, 2018, 9, 4579. | 5.8 | 39 |
| 33 | Superâ€resolution Geometric Barcoding for Multiplexed miRNA Profiling. Angewandte Chemie, 2018, 130, 14271-14275. | 1.6 | 4 |
| 34 | Superâ€resolution Geometric Barcoding for Multiplexed miRNA Profiling. Angewandte Chemie - International Edition, 2018, 57, 14075-14079. | 7.2 | 23 |
| 35 | Hierarchical Assembly of DNA Nanostructures Based on Four-Way Toehold-Mediated Strand Displacement. Nano Letters, 2018, 18, 4791-4795. | 4.5 | 12 |
| 36 | Advanced Cell and Tissue Biomanufacturing. ACS Biomaterials Science and Engineering, 2018, 4, 2292-2307. | 2.6 | 14 |

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|---|---|---|---|
| 37 | Reconfigurable Three-Dimensional Gold Nanorod Plasmonic Nanostructures Organized on DNA Origami Tripod. ACS Nano, 2017, 11, 1172-1179. | 7.3 | 129 |
| 38 | Universal Superâ€Resolution Multiplexing by DNA Exchange. Angewandte Chemie - International Edition, 2017, 56, 4052-4055. | 7.2 | 79 |
| 39 | DNA-barcoded labeling probes for highly multiplexed Exchange-PAINT imaging. Chemical Science, 2017, 8, 3080-3091. | 3.7 | 172 |
| 40 | Subâ€“100-nm metafluorophores with digitally tunable optical properties self-assembled from DNA. Science Advances, 2017, 3, e1602128. | 4.7 | 58 |
| 41 | Barcode extension for analysis and reconstruction of structures. Nature Communications, 2017, 8, 14698. | 5.8 | 17 |
| 42 | DNA Nanostructures-Mediated Molecular Imprinting Lithography. ACS Nano, 2017, 11, 227-238. | 7.3 | 43 |
| 43 | A DNA nanoscope via auto-cycling proximity recording. Nature Communications, 2017, 8, 696. | 5.8 | 36 |
| 44 | In Situ Super-Resolution Imaging of Genomic DNA with OligoSTORM and OligoDNA-PAINT. Methods in Molecular Biology, 2017, 1663, 231-252. | 0.4 | 69 |
| 45 | Rapid Sequential in Situ Multiplexing with DNA Exchange Imaging in Neuronal Cells and Tissues. Nano Letters, 2017, 17, 6131-6139. | 4.5 | 116 |
| 46 | Multiplexed Exchange-PAINT imaging reveals ligand-dependent EGFR and Met interactions in the plasma membrane. Scientific Reports, 2017, 7, 12150. | 1.6 | 29 |
| 47 | Universelles SuperauflÃ¶sungsâ€Multiplexing durch DNAâ€Austausch. Angewandte Chemie, 2017, 129, 4111-4114. | 1.6 | 8 |
| 48 | Multiplexed 3D super-resolution imaging of whole cells using spinning disk confocal microscopy and DNA-PAINT. Nature Communications, 2017, 8, 2090. | 5.8 | 125 |
| 49 | Single-stranded DNA and RNA origami. Science, 2017, 358, . | 6.0 | 202 |
| 50 | Programmable self-assembly of three-dimensional nanostructures from 10,000 unique components. Nature, 2017, 552, 72-77. | 13.7 | 335 |
| 51 | Complex cellular logic computation using ribocomputing devices. Nature, 2017, 548, 117-121. | 13.7 | 321 |
| 52 | Optical imaging of individual biomolecules in densely packed clusters. Nature Nanotechnology, 2016, 11, 798-807. | 15.6 | 204 |
| 53 | Ribocomputing devices for sophisticated in vivo logic computation. , 2016, , . | | 1 |
| 54 | Genetic encoding of DNA nanostructures and their self-assembly in living bacteria. Nature Communications, 2016, 7, 11179. | 5.8 | 65 |

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|---|---|---|---|
| 55 | Quantitative super-resolution imaging with qPAINT. Nature Methods, 2016, 13, 439-442. | 9.0 | 328 |
| 56 | Programmably Shaped Carbon Nanostructure from Shape-Conserving Carbonization of DNA. ACS Nano, 2016, 10, 3069-3077. | 7.3 | 37 |
| 57 | DyNAMiC Workbench: an integrated development environment for dynamic DNA nanotechnology. Journal of the Royal Society Interface, 2015, 12, 20150580. | 1.5 | 17 |
| 58 | Self-assembly of Complex Two-dimensional Shapes from Single-stranded DNA Tiles. Journal of Visualized Experiments, 2015, , e52486. | 0.2 | 4 |
| 59 | A Compact DNA Cube with Side Length 10 nm. Small, 2015, 11, 5200-5205. | 5.2 | 22 |
| 60 | Single-molecule super-resolution imaging of chromosomes and in situ haplotype visualization using Oligopaint FISH probes. Nature Communications, 2015, 6, 7147. | 5.8 | 329 |
| 61 | Routing of individual polymers in designed patterns. Nature Nanotechnology, 2015, 10, 892-898. | 15.6 | 189 |
| 62 | Nanolithography Based on Metalized DNA Templates for Graphene Patterning. Current Protocols in Chemical Biology, 2014, 6, 53-64. | 1.7 | 1 |
| 63 | Polyhedra Self-Assembled from DNA Tripods and Characterized with 3D DNA-PAINT. Science, 2014, 344, 65-69. | 6.0 | 299 |
| 64 | Multiplexed 3D cellular super-resolution imaging with DNA-PAINT and Exchange-PAINT. Nature Methods, 2014, 11, 313-318. | 9.0 | 881 |
| 65 | Paper-Based Synthetic Gene Networks. Cell, 2014, 159, 940-954. | 13.5 | 597 |
| 66 | Toehold Switches: De-Novo-Designed Regulators of Gene Expression. Cell, 2014, 159, 925-939. | 13.5 | 646 |
| 67 | DNA brick crystals with prescribed depths. Nature Chemistry, 2014, 6, 994-1002. | 6.6 | 182 |
| 68 | Complex Reconfiguration of DNA Nanostructures. Angewandte Chemie - International Edition, 2014, 53, 7475-7479. | 7.2 | 21 |
| 69 | Casting inorganic structures with DNA molds. Science, 2014, 346, 1258361. | 6.0 | 251 |
| 70 | Design Space for Complex DNA Structures. Journal of the American Chemical Society, 2013, 135, 18080-18088. | 6.6 | 36 |
| 71 | Metallized DNA nanolithography for encoding and transferring spatial information for graphene patterning. Nature Communications, 2013, 4, 1663. | 5.8 | 155 |
| 72 | Nanoscale Growth and Patterning of Inorganic Oxides Using DNA Nanostructure Templates. Journal of the American Chemical Society, 2013, 135, 6778-6781. | 6.6 | 97 |

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|---|---|---|---|
| 73 | 2SBA-02 Programming Nucleic Acids Self-Assembly(2SBA Reconstitution of life phenomena in a) Tj ETQq1 1 0.784314 rgBT /Overlock 10 | 0.0 | 0 |
| 74 | Three-Dimensional Structures Self-Assembled from DNA Bricks. Science, 2012, 338, 1177-1183. | 6.0 | 1,062 |
| 75 | Submicrometre geometrically encoded fluorescent barcodes self-assembled from DNA. Nature Chemistry, 2012, 4, 832-839. | 6.6 | 252 |
| 76 | Optimizing the specificity of nucleic acid hybridization. Nature Chemistry, 2012, 4, 208-214. | 6.6 | 347 |
| 77 | Complex shapes self-assembled from single-stranded DNA tiles. Nature, 2012, 485, 623-626. | 13.7 | 835 |
| 78 | Programming biomolecular self-assembly pathways. Nature, 2008, 451, 318-322. | 13.7 | 1,339 |
| 79 | Programming DNA Tube Circumferences. Science, 2008, 321, 824-826. | 6.0 | 435 |