

# Yonggang Ke

## List of Publications by Year in descending order

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Version: 2024-02-01

103  
papers

9,127  
citations

57631

44  
h-index

40881

93  
g-index

108  
all docs

108  
docs citations

108  
times ranked

6650  
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-Dimensional Structures Self-Assembled from DNA Bricks. <i>Science</i> , 2012, 338, 1177-1183.	6.0	1,062
2	Self-assembled DNA nanostructures for distance-dependent multivalent ligand-protein binding. <i>Nature Nanotechnology</i> , 2008, 3, 418-422.	15.6	439
3	Self-Assembled Water-Soluble Nucleic Acid Probe Tiles for Label-Free RNA Hybridization Assays. <i>Science</i> , 2008, 319, 180-183.	6.0	432
4	Multilayer DNA Origami Packed on a Square Lattice. <i>Journal of the American Chemical Society</i> , 2009, 131, 15903-15908.	6.6	380
5	Programmable self-assembly of three-dimensional nanostructures from 10,000 unique components. <i>Nature</i> , 2017, 552, 72-77.	13.7	335
6	Periodic Square-Like Gold Nanoparticle Arrays Templated by Self-Assembled 2D DNA Nanogrids on a Surface. <i>Nano Letters</i> , 2006, 6, 248-251.	4.5	323
7	Scaffolded DNA Origami of a DNA Tetrahedron Molecular Container. <i>Nano Letters</i> , 2009, 9, 2445-2447.	4.5	306
8	Polyhedra Self-Assembled from DNA Tripods and Characterized with 3D DNA-PAINT. <i>Science</i> , 2014, 344, 65-69.	6.0	299
9	Au Nanorod Helical Superstructures with Designed Chirality. <i>Journal of the American Chemical Society</i> , 2015, 137, 457-462.	6.6	289
10	The Beauty and Utility of DNA Origami. <i>CheM</i> , 2017, 2, 359-382.	5.8	269
11	Spatially Addressable Multiprotein Nanoarrays Templated by Aptamer-Tagged DNA Nanoarchitectures. <i>Journal of the American Chemical Society</i> , 2007, 129, 10304-10305.	6.6	258
12	Prescribed nanoparticle cluster architectures and low-dimensional arrays built using octahedral DNA origami frames. <i>Nature Nanotechnology</i> , 2015, 10, 637-644.	15.6	243
13	Visualization of the Cellular Uptake and Trafficking of DNA Origami Nanostructures in Cancer Cells. <i>Journal of the American Chemical Society</i> , 2018, 140, 2478-2484.	6.6	194
14	DNA brick crystals with prescribed depths. <i>Nature Chemistry</i> , 2014, 6, 994-1002.	6.6	182
15	Programming Self-Assembly of DNA Origami Honeycomb Two-Dimensional Lattices and Plasmonic Metamaterials. <i>Journal of the American Chemical Society</i> , 2016, 138, 7733-7740.	6.6	172
16	Plasmonic Toroidal Metamolecules Assembled by DNA Origami. <i>Journal of the American Chemical Society</i> , 2016, 138, 5495-5498.	6.6	165
17	Reconfiguration of DNA molecular arrays driven by information relay. <i>Science</i> , 2017, 357, .	6.0	160
18	Metallized DNA nanolithography for encoding and transferring spatial information for graphene patterning. <i>Nature Communications</i> , 2013, 4, 1663.	5.8	155

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19	DNAâ€Tileâ€Directed Selfâ€Assembly of Quantum Dots into Twoâ€Dimensional Nanopatterns. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5157-5159.	7.2	151
20	A Study of DNA Tube Formation Mechanisms Using 4-, 8-, and 12-Helix DNA Nanostructures. <i>Journal of the American Chemical Society</i> , 2006, 128, 4414-4421.	6.6	141
21	Reconfigurable Three-Dimensional Gold Nanorod Plasmonic Nanostructures Organized on DNA Origami Tripod. <i>ACS Nano</i> , 2017, 11, 1172-1179.	7.3	129
22	Regulation at a distance of biomolecular interactions using a DNA origami nanoactuator. <i>Nature Communications</i> , 2016, 7, 10935.	5.8	124
23	Self-Assembly of Symmetric Finite-Size DNA Nanoarrays. <i>Journal of the American Chemical Society</i> , 2005, 127, 17140-17141.	6.6	120
24	Multilayer DNA Origami Packed on Hexagonal and Hybrid Lattices. <i>Journal of the American Chemical Society</i> , 2012, 134, 1770-1774.	6.6	119
25	Two design strategies for enhancement of multilayerâ€DNA-origami folding: underwinding for specific intercalator rescue and staple-break positioning. <i>Chemical Science</i> , 2012, 3, 2587.	3.7	113
26	Systemic Delivery of Bc12â€Targeting siRNA by DNA Nanoparticles Suppresses Cancer Cell Growth. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16023-16027.	7.2	105
27	Structural DNA Nanotechnology: Artificial Nanostructures for Biomedical Research. <i>Annual Review of Biomedical Engineering</i> , 2018, 20, 375-401.	5.7	102
28	Programmable Multivalent DNA-Origami Tension Probes for Reporting Cellular Traction Forces. <i>Nano Letters</i> , 2018, 18, 4803-4811.	4.5	97
29	Live-cell super-resolved PAINt imaging of piconewton cellular traction forces. <i>Nature Methods</i> , 2020, 17, 1018-1024.	9.0	85
30	Site-Specific Surface Functionalization of Gold Nanorods Using DNA Origami Clamps. <i>Journal of the American Chemical Society</i> , 2016, 138, 1764-1767.	6.6	84
31	Nicking-Assisted Reactant Recycle To Implement Entropy-Driven DNA Circuit. <i>Journal of the American Chemical Society</i> , 2019, 141, 17189-17197.	6.6	82
32	Controlled Delivery of DNA Origami on Patterned Surfaces. <i>Small</i> , 2009, 5, 1942-1946.	5.2	80
33	Programmable Supraâ€Assembly of a DNA Surface Adapter for Tunable Chiral Directional Selfâ€Assembly of Gold Nanorods. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14632-14636.	7.2	76
34	Dynamic DNA Structures. <i>Small</i> , 2019, 15, e1900228.	5.2	76
35	RNA imaging in living mice enabled by an <i>in vivo</i> hybridization chain reaction circuit with a tripartite DNA probe. <i>Chemical Science</i> , 2020, 11, 62-69.	3.7	71
36	Mirror Image DNA Nanostructures for Chiral Supramolecular Assemblies. <i>Nano Letters</i> , 2009, 9, 433-436.	4.5	63

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37	Selective in Situ Assembly of Viral Protein onto DNA Origami. <i>Journal of the American Chemical Society</i> , 2018, 140, 8074-8077.	6.6	63
38	Complex wireframe DNA nanostructures from simple building blocks. <i>Nature Communications</i> , 2019, 10, 1067.	5.8	63
39	Functional DNA Nanotube Arrays: Bottomâ€Up Meets Topâ€Down. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6089-6092.	7.2	61
40	Structurally Ordered Nanowire Formation from Co-Assembly of DNA Origami and Collagen-Mimetic Peptides. <i>Journal of the American Chemical Society</i> , 2017, 139, 14025-14028.	6.6	59
41	DNA nanotechnology assisted nanopore-based analysis. <i>Nucleic Acids Research</i> , 2020, 48, 2791-2806.	6.5	59
42	DNA Nanotechnologyâ€Based Biosensors and Therapeutics. <i>Advanced Healthcare Materials</i> , 2021, 10, e2002205.	3.9	51
43	Information Coding in a Reconfigurable DNA Origami Domino Array. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12991-12997.	7.2	50
44	Programmable DNA Hydrogels Assembled from Multidomain DNA Strands. <i>ChemBioChem</i> , 2016, 17, 1156-1162.	1.3	49
45	Magnetic Plasmon Networks Programmed by Molecular Selfâ€Assembly. <i>Advanced Materials</i> , 2019, 31, e1901364.	11.1	47
46	DNA Origami Guided Self-Assembly of Plasmonic Polymers with Robust Long-Range Plasmonic Resonance. <i>Nano Letters</i> , 2020, 20, 8926-8932.	4.5	47
47	Tunable DNA Origami Motors Translocate Ballistically Over $\hat{1}/4$ m Distances at nm/s Speeds. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9514-9521.	7.2	45
48	Engineering Organization of DNA Nano-Chambers through Dimensionally Controlled and Multi-Sequence Encoded Differentiated Bonds. <i>Journal of the American Chemical Society</i> , 2020, 142, 17531-17542.	6.6	44
49	DNA Origami Structures Directly Assembled from Intact Bacteriophages. <i>Small</i> , 2014, 10, 1765-1769.	5.2	39
50	DNA Origami-Enabled Biosensors. <i>Sensors</i> , 2020, 20, 6899.	2.1	38
51	DNA origami single crystals with Wulff shapes. <i>Nature Communications</i> , 2021, 12, 3011.	5.8	38
52	Programmable Assembly of Iron Oxide Nanoparticles Using DNA Origami. <i>Nano Letters</i> , 2020, 20, 2799-2805.	4.5	37
53	Design Space for Complex DNA Structures. <i>Journal of the American Chemical Society</i> , 2013, 135, 18080-18088.	6.6	36
54	Angular reconstitution-based 3D reconstructions of nanomolecular structures from superresolution light-microscopy images. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9273-9278.	3.3	36

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55	Proximity-Induced Pattern Operations in Reconfigurable DNA Origami Domino Array. <i>Journal of the American Chemical Society</i> , 2020, 142, 14566-14573.	6.6	34
56	Mechanically Triggered Hybridization Chain Reaction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19974-19981.	7.2	34
57	Programmable Transformations of DNA Origami Made of Small Modular Dynamic Units. <i>Journal of the American Chemical Society</i> , 2021, 143, 2256-2263.	6.6	32
58	Design and operation of reconfigurable two-dimensional DNA molecular arrays. <i>Nature Protocols</i> , 2018, 13, 2312-2329.	5.5	30
59	Hierarchical Fabrication of DNA Wireframe Nanoarchitectures for Efficient Cancer Imaging and Targeted Therapy. <i>ACS Nano</i> , 2020, 14, 17365-17375.	7.3	30
60	Programming Dynamic Assembly of Viral Proteins with DNA Origami. <i>Journal of the American Chemical Society</i> , 2020, 142, 5929-5932.	6.6	30
61	Programming Surface-Enhanced Raman Scattering of DNA Origami-templated Metamolecules. <i>Nano Letters</i> , 2020, 20, 3155-3159.	4.5	30
62	Electrostatic Complementarity Drives Amyloid/Nucleic Acid Co-Assembly. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 358-363.	7.2	29
63	Modular Reconfigurable DNA Origami: From Two-Dimensional to Three-Dimensional Structures. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23277-23282.	7.2	29
64	Programmable allosteric DNA regulations for molecular networks and nanomachines. <i>Science Advances</i> , 2022, 8, eabl4589.	4.7	27
65	Practical aspects of structural and dynamic DNA nanotechnology. <i>MRS Bulletin</i> , 2017, 42, 889-896.	1.7	23
66	Designer three-dimensional DNA architectures. <i>Current Opinion in Structural Biology</i> , 2014, 27, 122-128.	2.6	22
67	Low-Bias Manipulation of DNA Oligo Pool for Robust Data Storage. <i>ACS Synthetic Biology</i> , 2020, 9, 3344-3352.	1.9	22
68	Hierarchical Self-Assembly of Cholesterol-DNA Nanorods. <i>Bioconjugate Chemistry</i> , 2019, 30, 1845-1849.	1.8	21
69	Programmable Supra-Assembly of a DNA Surface Adapter for Tunable Chiral Directional Self-Assembly of Gold Nanorods. <i>Angewandte Chemie</i> , 2017, 129, 14824-14828.	1.6	20
70	Programming the Curvatures in Reconfigurable DNA Domino Origami by Using Asymmetric Units. <i>Nano Letters</i> , 2020, 20, 8236-8241.	4.5	19
71	DNA Assembly of Modular Components into a Rotary Nanodevice. <i>ACS Nano</i> , 2022, 16, 5284-5291.	7.3	18
72	Blockade of glutamine-dependent cell survival augments antitumor efficacy of CPI-613 in head and neck cancer. <i>Journal of Experimental and Clinical Cancer Research</i> , 2021, 40, 393.	3.5	17

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73	DNA Nanotechnology: A Rapidly Evolving Field. <i>Current Nanoscience</i> , 2006, 2, 113-122.	0.7	16
74	Programmable Site-Specific Functionalization of DNA Origami with Polynucleotide Brushes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23241-23247.	7.2	15
75	Divalent Multilinking Bonds Control Growth and Morphology of Nanopolymers. <i>Nano Letters</i> , 2021, 21, 10547-10554.	4.5	15
76	Developing DNA tiles for oligonucleotide hybridization assay with higher accuracy and efficiency. <i>Chemical Communications</i> , 2008, , 5622.	2.2	14
77	Advanced Cell and Tissue Biomanufacturing. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 2292-2307.	2.6	14
78	Systemic Delivery of Bcl2-Targeting siRNA by DNA Nanoparticles Suppresses Cancer Cell Growth. <i>Angewandte Chemie</i> , 2017, 129, 16239-16243.	1.6	13
79	Biomimetic Compartments Scaffolded by Nucleic Acid Nanostructures. <i>Small</i> , 2019, 15, 1900256.	5.2	12
80	Programming the Nucleation of DNA Brick Self-Assembly with a Seeding Strand. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8594-8600.	7.2	12
81	Programming DNA Tube Circumference by Tile Offset Connection. <i>Journal of the American Chemical Society</i> , 2019, 141, 19529-19532.	6.6	11
82	Information Coding in a Reconfigurable DNA Origami Domino Array. <i>Angewandte Chemie</i> , 2020, 132, 13091-13097.	1.6	11
83	Monochromatic Fluorescent Barcodes Hierarchically Assembled from Modular DNA Origami Nanorods. <i>ACS Nano</i> , 2021, 15, 15892-15901.	7.3	10
84	Self-Assembly of DNA-Minocycline Complexes by Metal Ions with Controlled Drug Release. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 29512-29521.	4.0	9
85	High-Throughput Dielectrophoretic Trapping and Detection of DNA Origami. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001476.	1.9	9
86	Accurate genotyping of fragmented DNA using a toehold assisted padlock probe. <i>Biosensors and Bioelectronics</i> , 2021, 179, 113079.	5.3	9
87	Spatiotemporal Control of Molecular Cascade Reactions by a Reconfigurable DNA Origami Domino Array. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	9
88	Electrostatic Complementarity Drives Amyloid/Nucleic Acid Co-Assembly. <i>Angewandte Chemie</i> , 2020, 132, 366-371.	1.6	8
89	DNA-Grafted 3D Superlattice Self-Assembly. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7558.	1.8	8
90	Tunable DNA Origami Motors Translocate Ballistically Over 1/4m Distances at nm/s Speeds. <i>Angewandte Chemie</i> , 2020, 132, 9601-9608.	1.6	7

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91	DNA-Guided Assembly of Molecules, Materials, and Cells. <i>Advanced Intelligent Systems</i> , 2020, 2, 1900101.	3.3	6
92	Shaped DNA origami carrier nanopore translocation influenced by aptamer based surface modification. <i>Biosensors and Bioelectronics</i> , 2022, 195, 113658.	5.3	6
93	Massively Parallelized Molecular Force Manipulation with On-Demand Thermal and Optical Control. <i>Journal of the American Chemical Society</i> , 2021, 143, 19466-19473.	6.6	6
94	Stress in DNA Gridiron Facilitates the Formation of Two-Dimensional Crystalline Structures. <i>Journal of the American Chemical Society</i> , 2022, 144, 9747-9752.	6.6	5
95	Attack on the Cell Membrane: The Pointy Ends of DNA Nanostructures Lead the Way. <i>ACS Central Science</i> , 2018, 4, 1298-1299.	5.3	4
96	Modular Reconfigurable DNA Origami: From Two-Dimensional to Three-Dimensional Structures. <i>Angewandte Chemie</i> , 2020, 132, 23477-23482.	1.6	4
97	Programmable assembly of gold nanoparticle nanoclusters and lattices. <i>Journal of Materials Chemistry B</i> , 2020, 8, 6810-6813.	2.9	4
98	Interfacially Bridging Covalent Network Yields Hyperstable and Ultralong Virus-Based Fibers for Engineering Functional Materials. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18249-18255.	7.2	4
99	Mechanically Triggered Hybridization Chain Reaction. <i>Angewandte Chemie</i> , 2021, 133, 20127-20134.	1.6	3
100	Programming the Nucleation of DNA Brick Self-Assembly with a Seeding Strand. <i>Angewandte Chemie</i> , 2020, 132, 8672-8678.	1.6	2
101	Nucleic Acid Based Nanoreactors—Toward the Study of Multienzymatic Pathways. <i>Advanced Science, Engineering and Medicine</i> , 2015, 7, 1009-1018.	0.3	2
102	Structural DNA Nanotechnology: Information-Guided Self-Assembly. , 0, , 869-880.		0
103	Spatiotemporal Control of Molecular Cascade Reactions by a Reconfigurable DNA Origami Domino Array. <i>Angewandte Chemie</i> , 0, , .	1.6	0