

Yonggang Ke

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.

101
papers

6,944
citations

38
h-index

83
g-index

108
ext. papers

8,157
ext. citations

13.5
avg, IF

6.08
L-index

#	Paper	IF	Citations
101	Three-dimensional structures self-assembled from DNA bricks. <i>Science</i> , 2012 , 338, 1177-83	33.3	871
100	Self-assembled DNA nanostructures for distance-dependent multivalent ligand-protein binding. <i>Nature Nanotechnology</i> , 2008 , 3, 418-22	28.7	397
99	Self-assembled water-soluble nucleic acid probe tiles for label-free RNA hybridization assays. <i>Science</i> , 2008 , 319, 180-3	33.3	396
98	Multilayer DNA origami packed on a square lattice. <i>Journal of the American Chemical Society</i> , 2009 , 131, 15903-8	16.4	316
97	Periodic square-like gold nanoparticle arrays templated by self-assembled 2D DNA Nanogrids on a surface. <i>Nano Letters</i> , 2006 , 6, 248-51	11.5	301
96	Scaffolded DNA origami of a DNA tetrahedron molecular container. <i>Nano Letters</i> , 2009 , 9, 2445-7	11.5	276
95	Polyhedra self-assembled from DNA tripods and characterized with 3D DNA-PAINT. <i>Science</i> , 2014 , 344, 65-9	33.3	243
94	Programmable self-assembly of three-dimensional nanostructures from 10,000 unique components. <i>Nature</i> , 2017 , 552, 72-77	50.4	237
93	Spatially addressable multiprotein nanoarrays templated by aptamer-tagged DNA nanoarchitectures. <i>Journal of the American Chemical Society</i> , 2007 , 129, 10304-5	16.4	234
92	Au nanorod helical superstructures with designed chirality. <i>Journal of the American Chemical Society</i> , 2015 , 137, 457-62	16.4	220
91	Prescribed nanoparticle cluster architectures and low-dimensional arrays built using octahedral DNA origami frames. <i>Nature Nanotechnology</i> , 2015 , 10, 637-44	28.7	200
90	The Beauty and Utility of DNA Origami. <i>Chem</i> , 2017 , 2, 359-382	16.2	197
89	DNA brick crystals with prescribed depths. <i>Nature Chemistry</i> , 2014 , 6, 994-1002	17.6	150
88	DNA-tile-directed self-assembly of quantum dots into two-dimensional nanopatterns. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 5157-9	16.4	142
87	Plasmonic Toroidal Metamolecules Assembled by DNA Origami. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5495-8	16.4	139
86	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	16.4	131
85	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, 4414-21	16.4	127

84	Programming Self-Assembly of DNA Origami Honeycomb Two-Dimensional Lattices and Plasmonic Metamaterials. <i>Journal of the American Chemical Society</i> , 2016 , 138, 7733-40	16.4	127
83	Metallized DNA nanolithography for encoding and transferring spatial information for graphene patterning. <i>Nature Communications</i> , 2013 , 4, 1663	17.4	126
82	Self-assembly of symmetric finite-size DNA nanoarrays. <i>Journal of the American Chemical Society</i> , 2005 , 127, 17140-1	16.4	113
81	Reconfiguration of DNA molecular arrays driven by information relay. <i>Science</i> , 2017 , 357,	33.3	112
80	Reconfigurable Three-Dimensional Gold Nanorod Plasmonic Nanostructures Organized on DNA Origami Tripod. <i>ACS Nano</i> , 2017 , 11, 1172-1179	16.7	101
79	Multilayer DNA origami packed on hexagonal and hybrid lattices. <i>Journal of the American Chemical Society</i> , 2012 , 134, 1770-4	16.4	100
78	Regulation at a distance of biomolecular interactions using a DNA origami nanoactuator. <i>Nature Communications</i> , 2016 , 7, 10935	17.4	98
77	Two design strategies for enhancement of multilayer-DNA-origami folding: underwinding for specific intercalator rescue and staple-break positioning. <i>Chemical Science</i> , 2012 , 3, 2587-2597	9.4	95
76	Systemic Delivery of Bc12-Targeting siRNA by DNA Nanoparticles Suppresses Cancer Cell Growth. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 16023-16027	16.4	79
75	Site-Specific Surface Functionalization of Gold Nanorods Using DNA Origami Clamps. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1764-7	16.4	76
74	Controlled delivery of DNA origami on patterned surfaces. <i>Small</i> , 2009 , 5, 1942-6	11	76
73	Structural DNA Nanotechnology: Artificial Nanostructures for Biomedical Research. <i>Annual Review of Biomedical Engineering</i> , 2018 , 20, 375-401	12	67
72	Programmable Multivalent DNA-Origami Tension Probes for Reporting Cellular Traction Forces. <i>Nano Letters</i> , 2018 , 18, 4803-4811	11.5	62
71	DNA-Templated Self-Assembly of Two-Dimensional and Periodical Gold Nanoparticle Arrays. <i>Angewandte Chemie</i> , 2006 , 118, 744-749	3.6	59
70	Functional DNA nanotube arrays: bottom-up meets top-down. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 6089-92	16.4	57
69	Programmable Supra-Assembly of a DNA Surface Adapter for Tunable Chiral Directional Self-Assembly of Gold Nanorods. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14632-14636	16.4	53
68	Mirror image DNA nanostructures for chiral supramolecular assemblies. <i>Nano Letters</i> , 2009 , 9, 433-6	11.5	49
67	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	16.4	41

66	Complex wireframe DNA nanostructures from simple building blocks. <i>Nature Communications</i> , 2019 , 10, 1067	17.4	41
65	Selective in Situ Assembly of Viral Protein onto DNA Origami. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8074-8077	16.4	39
64	RNA imaging in living mice enabled by an hybridization chain reaction circuit with a tripartite DNA probe. <i>Chemical Science</i> , 2020 , 11, 62-69	9.4	38
63	Dynamic DNA Structures. <i>Small</i> , 2019 , 15, e1900228	11	35
62	Live-cell super-resolved PAINT imaging of piconewton cellular traction forces. <i>Nature Methods</i> , 2020 , 17, 1018-1024	21.6	35
61	Nicking-Assisted Reactant Recycle To Implement Entropy-Driven DNA Circuit. <i>Journal of the American Chemical Society</i> , 2019 , 141, 17189-17197	16.4	32
60	Design space for complex DNA structures. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18080-8	16.4	32
59	Programmable DNA Hydrogels Assembled from Multidomain DNA Strands. <i>ChemBioChem</i> , 2016 , 17, 1156-62	3.8	30
58	Tunable DNA Origami Motors Translocate Ballistically Over μm Distances at nm/s Speeds. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 9514-9521	16.4	29
57	DNA origami structures directly assembled from intact bacteriophages. <i>Small</i> , 2014 , 10, 1765-9	11	29
56	Magnetic Plasmon Networks Programmed by Molecular Self-Assembly. <i>Advanced Materials</i> , 2019 , 31, e1901364	24	28
55	DNA nanotechnology assisted nanopore-based analysis. <i>Nucleic Acids Research</i> , 2020 , 48, 2791-2806	20.1	28
54	DNA Origami Guided Self-Assembly of Plasmonic Polymers with Robust Long-Range Plasmonic Resonance. <i>Nano Letters</i> , 2020 , 20, 8926-8932	11.5	27
53	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	11.5	24
52	Design and operation of reconfigurable two-dimensional DNA molecular arrays. <i>Nature Protocols</i> , 2018 , 13, 2312-2329	18.8	23
51	Information Coding in a Reconfigurable DNA Origami Domino Array. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12991-12997	16.4	22
50	Programmable Assembly of Iron Oxide Nanoparticles Using DNA Origami. <i>Nano Letters</i> , 2020 , 20, 2799-2805	16.4	21
49	Designer three-dimensional DNA architectures. <i>Current Opinion in Structural Biology</i> , 2014 , 27, 122-8	8.1	21

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	16.4	20
47	Programming Surface-Enhanced Raman Scattering of DNA Origami-templated Metamolecules. <i>Nano Letters</i> , 2020 , 20, 3155-3159	11.5	18
46	Practical aspects of structural and dynamic DNA nanotechnology. <i>MRS Bulletin</i> , 2017 , 42, 889-896	3.2	17
45	Electrostatic Complementarity Drives Amyloid/Nucleic Acid Co-Assembly. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 358-363	16.4	17
44	Proximity-Induced Pattern Operations in Reconfigurable DNA Origami Domino Array. <i>Journal of the American Chemical Society</i> , 2020 , 142, 14566-14573	16.4	16
43	Programming Dynamic Assembly of Viral Proteins with DNA Origami. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5929-5932	16.4	14
42	DNA Nanotechnology: A Rapidly Evolving Field. <i>Current Nanoscience</i> , 2006 , 2, 113-122	1.4	14
41	Advanced Cell and Tissue Biomanufacturing. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 2292-2307	7.5	13
40	Systemic Delivery of Bc12-Targeting siRNA by DNA Nanoparticles Suppresses Cancer Cell Growth. <i>Angewandte Chemie</i> , 2017 , 129, 16239-16243	3.6	13
39	DNA Nanotechnology-Based Biosensors and Therapeutics. <i>Advanced Healthcare Materials</i> , 2021 , 10, e200205	13	13
38	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	3.6	12
37	Hierarchical Self-Assembly of Cholesterol-DNA Nanorods. <i>Bioconjugate Chemistry</i> , 2019 , 30, 1845-1849	6.3	12
36	Developing DNA tiles for oligonucleotide hybridization assay with higher accuracy and efficiency. <i>Chemical Communications</i> , 2008 , 5622-4	5.8	12
35	Modular Reconfigurable DNA Origami: From Two-Dimensional to Three-Dimensional Structures. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 23277-23282	16.4	12
34	DNA Origami-Enabled Biosensors. <i>Sensors</i> , 2020 , 20,	3.8	11
33	Programmable Transformations of DNA Origami Made of Small Modular Dynamic Units. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2256-2263	16.4	11
32	Hierarchical Fabrication of DNA Wireframe Nanoarchitectures for Efficient Cancer Imaging and Targeted Therapy. <i>ACS Nano</i> , 2020 , 14, 17365-17375	16.7	10
31	Biomimetic Compartments Scaffolded by Nucleic Acid Nanostructures. <i>Small</i> , 2019 , 15, e1900256	11	8

30	Quantum Dot Bioconjugation during Core-Shell Synthesis. <i>Angewandte Chemie</i> , 2008 , 120, 322-325	3.6	8
29	Programming the Curvatures in Reconfigurable DNA Domino Origami by Using Asymmetric Units. <i>Nano Letters</i> , 2020 , 20, 8236-8241	11.5	8
28	Self-Assembly of DNA-Minocycline Complexes by Metal Ions with Controlled Drug Release. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29512-29521	9.5	7
27	Electrostatic Complementarity Drives Amyloid/Nucleic Acid Co-Assembly. <i>Angewandte Chemie</i> , 2020 , 132, 366-371	3.6	7
26	DNA origami single crystals with Wulff shapes. <i>Nature Communications</i> , 2021 , 12, 3011	17.4	7
25	Programming the Nucleation of DNA Brick Self-Assembly with a Seeding Strand. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8594-8600	16.4	5
24	DNA-Guided Assembly of Molecules, Materials, and Cells. <i>Advanced Intelligent Systems</i> , 2020 , 2, 19001016		5
23	Low-Bias Manipulation of DNA Oligo Pool for Robust Data Storage. <i>ACS Synthetic Biology</i> , 2020 , 9, 3344-3352	3.7	5
22	Programmable Site-Specific Functionalization of DNA Origami with Polynucleotide Brushes. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 23241-23247	16.4	5
21	Information Coding in a Reconfigurable DNA Origami Domino Array. <i>Angewandte Chemie</i> , 2020 , 132, 13091-13097	3.6	4
20	Programming DNA Tube Circumference by Tile Offset Connection. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19529-19532	16.4	3
19	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	12.8	3
18	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	16.4	2
17	Programming the Nucleation of DNA Brick Self-Assembly with a Seeding Strand. <i>Angewandte Chemie</i> , 2020 , 132, 8672-8678	3.6	2
16	Tunable DNA Origami Motors Translocate Ballistically Over μm Distances at nm/s Speeds. <i>Angewandte Chemie</i> , 2020 , 132, 9601-9608	3.6	2
15	Nucleic Acid Based Nanoreactors Toward the Study of Multienzymatic Pathways. <i>Advanced Science, Engineering and Medicine</i> , 2015 , 7, 1009-1018	0.6	2
14	Divalent Multilinking Bonds Control Growth and Morphology of Nanopolymers. <i>Nano Letters</i> , 2021 ,	11.5	2
13	Modular Reconfigurable DNA Origami: From Two-Dimensional to Three-Dimensional Structures. <i>Angewandte Chemie</i> , 2020 , 132, 23477-23482	3.6	2

12	Accurate genotyping of fragmented DNA using a toehold assisted padlock probe. <i>Biosensors and Bioelectronics</i> , 2021 , 179, 113079	11.8	2
11	Mechanically Triggered Hybridization Chain Reaction. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19974-19981	16.4	2
10	High-Throughput Dielectrophoretic Trapping and Detection of DNA Origami. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2001476	4.6	2
9	Programmable assembly of gold nanoparticle nanoclusters and lattices. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 6810-6813	7.3	1
8	DNA-Grafted 3D Superlattice Self-Assembly. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
7	Monochromatic Fluorescent Barcodes Hierarchically Assembled from Modular DNA Origami Nanorods. <i>ACS Nano</i> , 2021 , 15, 15892-15901	16.7	1
6	Shaped DNA origami carrier nanopore translocation influenced by aptamer based surface modification. <i>Biosensors and Bioelectronics</i> , 2022 , 195, 113658	11.8	1
5	Programmable allosteric DNA regulations for molecular networks and nanomachines.. <i>Science Advances</i> , 2022 , 8, eabl4589	14.3	0
4	Massively Parallelized Molecular Force Manipulation with On-Demand Thermal and Optical Control. <i>Journal of the American Chemical Society</i> , 2021 , 143, 19466-19473	16.4	0
3	Mechanically Triggered Hybridization Chain Reaction. <i>Angewandte Chemie</i> , 2021 , 133, 20127-20134	3.6	0
2	Structural DNA Nanotechnology: Information-Guided Self-Assembly869-880		
1	DNA Nanostructures for Cancer Diagnosis and Therapy 2022 , 379-410		