Lifeng Zhou

List of Publications by Year
in descending order

22 papers	1,040 citations	840776 11 h-index	794594 19 g-index
25 all docs	25 docs citations	25 times ranked	1097 citing authors

#	Article	IF	Citations
1	Single species RNA purification using DNA nanoswitches. Trends in Biochemical Sciences, 2022, , .	7.5	0
2	A mini DNAâ€“RNA hybrid origami nanobrick. Nanoscale Advances, 2021, 3, 4048-4051.	4.6	10
3	Sequence-selective purification of biological RNAs using DNA nanoswitches. Cell Reports Methods, 2021, 1, 100126.	2.9	5
4	Programmable low-cost DNA-based platform for viral RNA detection. Science Advances, 2020, 6, .	10.3	37
5	Rapid one-step detection of SARS-CoV-2 RNA. Nature Biomedical Engineering, 2020, 4, 1123-1124.	22.5	9
6	Wi-Fi Live-Streaming Centrifuge Force Microscope for Benchtop Single-Molecule Experiments. Biophysical Journal, 2020, 119, 2231-2239.	0.5	5
7	DNA nanotechnology approaches for microRNA detection and diagnosis. Nucleic Acids Research, 2019, 47, 10489-10505.	14.5	92
8	Cellular microRNA detection with miRacles: microRNA- activated conditional looping of engineered switches. Science Advances, 2019, 5, eaau9443.	10.3	66
9	Three-dimensional structural dynamics of DNA origami Bennett linkages using individual-particle electron tomography. Nature Communications, 2018, 9, 592.	12.8	48
10	Paper Origamiâ€Inspired Design and Actuation of DNA Nanomachines with Complex Motions. Small, 2018, 14, e1802580.	10.0	32
11	Cation-Activated Avidity for Rapid Reconfiguration of DNA Nanodevices. ACS Nano, 2018, 12, 9484-9494.	14.6	54
12	Projection kinematic analysis of DNA origami mechanisms based on a two-dimensional TEM image. Mechanism and Machine Theory, 2017, 109, 22-38.	4.5	6
13	The Kinematic Principle for Designing Deoxyribose Nucleic Acid Origami Mechanisms: Challenges and Opportunities1. Journal of Mechanical Design, Transactions of the ASME, 2017, 139, .	2.9	6
14	Pseudorigid-Body Models of Compliant DNA Origami Mechanisms. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	13
15	The Kinematic Principle for Designing DNA Origami Mechanisms: Challenges and Opportunities. , 2015, , .		1
16	Pseudo-Rigid-Body Models of Compliant DNA Origami Mechanisms. , 2015, , .		1
17	Programmable motion of DNA origami mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 713-718.	7.1	341
18	Direct Design of an Energy Landscape with Bistable DNA Origami Mechanisms. Nano Letters, 2015, 15, 1815-1821.	9.1	61

#	Article	IF	Citations
19	Mechanical design of DNA nanostructures. Nanoscale, 2015, 7, 5913-5921.	5.6	120
20	DNA Origami Compliant Nanostructures with Tunable Mechanical Properties. ACS Nano, 2014, 8, 27-34.	14.6	114
21	Modelling, simulation and experiment of a novel pure rolling cycloid reducer with involute teeth. International Journal of Modelling, Identification and Control, 2014, 21, 184.	0.2	11
22	Mobility Analysis and Type Synthesis with Screw Theory: From Rigid Body Linkages to Compliant Mechanisms. Mechanisms and Machine Science, 2013, , 67-81.	0.5	4