

Xing Wang

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,472
citations

430874

18
h-index

345221

36
g-index

42
all docs

42
docs citations

42
times ranked

1980
citing authors

#	ARTICLE	IF	CITATIONS
1	Designer DNA architecture offers precise and multivalent spatial pattern-recognition for viral sensing and inhibition. <i>Nature Chemistry</i> , 2020, 12, 26-35.	13.6	193
2	Assembly and Characterization of 8-Arm and 12-Arm DNA Branched Junctions. <i>Journal of the American Chemical Society</i> , 2007, 129, 8169-8176.	13.7	134
3	Piwi-Interacting RNAs Protect DNA against Loss during <i>Oxytricha</i> Genome Rearrangement. <i>Cell</i> , 2012, 151, 1243-1255.	28.9	133
4	In vivo cloning of artificial DNA nanostructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17626-17631.	7.1	111
5	Tip-Enhanced Raman Imaging of Single-Stranded DNA with Single Base Resolution. <i>Journal of the American Chemical Society</i> , 2019, 141, 753-757.	13.7	102
6	Beyond the Fold: Emerging Biological Applications of DNA Origami. <i>ChemBioChem</i> , 2016, 17, 1081-1089.	2.6	79
7	Paranemic Crossover DNA: There and Back Again. <i>Chemical Reviews</i> , 2019, 119, 6273-6289.	47.7	69
8	Rolling Circle Enzymatic Replication of a Complex Multi-Crossover DNA Nanostructure. <i>Journal of the American Chemical Society</i> , 2007, 129, 14475-14481.	13.7	66
9	Intracellular Delivery of Nanomaterials via an Inertial Microfluidic Cell Hydroporator. <i>Nano Letters</i> , 2018, 18, 2705-2710.	9.1	65
10	Hydroporator: a hydrodynamic cell membrane perforator for high-throughput vector-free nanomaterial intracellular delivery and DNA origami biostability evaluation. <i>Lab on A Chip</i> , 2019, 19, 1747-1754.	6.0	50
11	Double cohesion in structural DNA nanotechnology. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 3414.	2.8	40
12	Double-stranded DNA homology produces a physical signature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 12547-12552.	7.1	38
13	PX DNA Triangle Oligomerized Using a Novel Three-Domain Motif. <i>Nano Letters</i> , 2008, 8, 317-322.	9.1	33
14	Covalent Linkage of One-Dimensional DNA Arrays Bonded by Paranemic Cohesion. <i>ACS Nano</i> , 2015, 9, 10304-10312.	14.6	31
15	Photonic resonator interferometric scattering microscopy. <i>Nature Communications</i> , 2021, 12, 1744.	12.8	31
16	Topological Linkage of DNA Tiles Bonded by Paranemic Cohesion. <i>ACS Nano</i> , 2015, 9, 10296-10303.	14.6	26
17	Label-Free Digital Detection of Intact Virions by Enhanced Scattering Microscopy. <i>Journal of the American Chemical Society</i> , 2022, 144, 1498-1502.	13.7	26
18	Deoligomerization: A New Route to Lactams from Unsaturated Amides via Radical Oligomerization. <i>Organic Letters</i> , 2003, 5, 361-363.	4.6	23

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19	Transcription-Independent Functions of an RNA Polymerase II Subunit, Rpb2, During Genome Rearrangement in the Ciliate, <i>Oxytricha trifallax</i> . <i>Genetics</i> , 2014, 197, 839-849.	2.9	23
20	Shear Dependent LC Purification of an Engineered DNA Nanoswitch and Implications for DNA Origami. <i>Analytical Chemistry</i> , 2017, 89, 5673-5677.	6.5	20
21	Small RNA-mediated regulation of DNA dosage in the ciliate <i>Oxytricha</i> . <i>Rna</i> , 2018, 24, 18-29.	3.5	20
22	Synthesis and characterization of porphyrin-DNA constructs for the self-assembly of modular energy transfer arrays. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2452-2459.	5.5	19
23	A Molecular Hero Suit for In Vitro and In Vivo DNA Nanostructures. <i>Small</i> , 2019, 15, e1805386.	10.0	19
24	Aptamers for Viral Detection and Inhibition. <i>ACS Infectious Diseases</i> , 2022, 8, 667-692.	3.8	17
25	Resolving the Sequence of RNA Strands by Tip-Enhanced Raman Spectroscopy. <i>ACS Photonics</i> , 2021, 8, 424-430.	6.6	15
26	Designer DNA nanostructures for viral inhibition. <i>Nature Protocols</i> , 2022, 17, 282-326.	12.0	14
27	Exploiting Plasmon-Mediated Energy Transfer To Enhance End-to-End Efficiency in a DNA Origami Energy Transfer Array. <i>ACS Applied Nano Materials</i> , 2019, 2, 5563-5572.	5.0	12
28	Chromosome fusions triggered by noncoding RNA. <i>RNA Biology</i> , 2017, 14, 620-631.	3.1	9
29	Click and photo-release dual-functional nucleic acid nanostructures. <i>Chemical Communications</i> , 2019, 55, 9709-9712.	4.1	9
30	Overcoming the limitations of COVID-19 diagnostics with nanostructures, nucleic acid engineering, and additive manufacturing. <i>Current Opinion in Solid State and Materials Science</i> , 2022, 26, 100966.	11.5	9
31	The Effect and Action Mechanisms of Oligochitosan on Control of Stem Dry Rot of <i>Zanthoxylum bungeanum</i> . <i>International Journal of Molecular Sciences</i> , 2016, 17, 1044.	4.1	8
32	RNA Aptamers with Specificity for Heparosan and Chondroitin Glycosaminoglycans. <i>ACS Omega</i> , 2018, 3, 13667-13675.	3.5	8
33	Complex between a Multicrossover DNA Nanostructure, PX-DNA, and T7 Endonuclease I. <i>Biochemistry</i> , 2019, 58, 1332-1342.	2.5	5
34	Nanocages for virus inhibition. <i>Nature Materials</i> , 2021, 20, 1176-1177.	27.5	5
35	Fast design of arbitrary length loops in proteins using InteractiveRosetta. <i>BMC Bioinformatics</i> , 2018, 19, 337.	2.6	4
36	Biotechnological and Therapeutic Applications of Natural Nucleic Acid Structural Motifs. <i>Topics in Current Chemistry</i> , 2020, 378, 26.	5.8	3

#	ARTICLE	IF	CITATIONS
37	Photonic metamaterial surfaces for digital resolution biosensor microscopies using enhanced absorption, scattering, and emission. , 2021, , .		2
38	Deoligomerization: A New Route to Lactams from Unsaturated Amides via Radical Oligomerization.. ChemInform, 2003, 34, no.	0.0	0
39	DNA Nanostructures: A Molecular Hero Suit for In Vitro and In Vivo DNA Nanostructures (Small) Tj ETQq1 1 0.784314 rgBT /Overlock 10	10.0	0
40	Gap Mode Tip-Enhanced Raman and AFM Imaging of RNA Strands. , 2021, , .		0