

# Dong Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

851  
citations

759233

12  
h-index

526287

27  
g-index

37  
all docs

37  
docs citations

37  
times ranked

938  
citing authors

#	ARTICLE	IF	CITATIONS
1	RNA-Puzzles Round III: 3D RNA structure prediction of five riboswitches and one ribozyme. <i>Rna</i> , 2017, 23, 655-672.	3.5	158
2	Theory and Modeling of RNA Structure and Interactions with Metal Ions and Small Molecules. <i>Annual Review of Biophysics</i> , 2017, 46, 227-246.	10.0	112
3	RNA-Puzzles Round IV: 3D structure predictions of four ribozymes and two aptamers. <i>Rna</i> , 2020, 26, 982-995.	3.5	100
4	Cas9-specific immune responses compromise local and systemic AAV CRISPR therapy in multiple dystrophic canine models. <i>Nature Communications</i> , 2021, 12, 6769.	12.8	73
5	Nanopore electric snapshots of an RNA tertiary folding pathway. <i>Nature Communications</i> , 2017, 8, 1458.	12.8	50
6	Unified energetics analysis unravels SpCas9 cleavage activity for optimal gRNA design. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8693-8698.	7.1	46
7	IsRNA: An Iterative Simulated Reference State Approach to Modeling Correlated Interactions in RNA Folding. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 2230-2239.	5.3	45
8	IsRNA1: <i>De Novo</i> Prediction and Blind Screening of RNA 3D Structures. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 1842-1857.	5.3	37
9	Local coil-helix transition of semiflexible polymers confined in spheres. <i>Soft Matter</i> , 2011, 7, 6836.	2.7	30
10	Binding interface and impact on protease cleavage for an RNA aptamer to HIV-1 reverse transcriptase. <i>Nucleic Acids Research</i> , 2020, 48, 2709-2722.	14.5	22
11	Entropic Interactions in Semiflexible Polymer Nanocomposite Melts. <i>Journal of Physical Chemistry B</i> , 2016, 120, 572-582.	2.6	19
12	Ordered regular pentagons for semiflexible polymers on soft elastic shells. <i>Soft Matter</i> , 2012, 8, 2152.	2.7	17
13	Structural basis of prostate-specific membrane antigen recognition by the A9g RNA aptamer. <i>Nucleic Acids Research</i> , 2020, 48, 11130-11145.	14.5	15
14	Modeling Noncanonical RNA Base Pairs by a Coarse-Grained IsRNA2 Model. <i>Journal of Physical Chemistry B</i> , 2021, 125, 11907-11915.	2.6	13
15	Conformations and migration behaviors of confined semiflexible polymers under poiseuille flow. <i>Polymer</i> , 2012, 53, 873-880.	3.8	11
16	Ordered structures of diblock nanorods induced by diblock copolymers. <i>Journal of Chemical Physics</i> , 2013, 139, 104901.	3.0	10
17	Helical Conformations of Semiflexible Polymers Confined between Two Concentric Cylinders. <i>Journal of Physical Chemistry B</i> , 2011, 115, 14333-14340.	2.6	9
18	Phase separation and crystallization of binary nanoparticles induced by polymer brushes. <i>Soft Matter</i> , 2013, 9, 1789-1797.	2.7	9

#	ARTICLE	IF	CITATIONS
19	Vfold-Pipeline: a web server for RNA 3D structure prediction from sequences. <i>Bioinformatics</i> , 2022, 38, 4042-4043.	4.1	8
20	Binding to semiflexible polymers: a novel method to control the structures of small numbers of building blocks. <i>Soft Matter</i> , 2014, 10, 7661-7668.	2.7	7
21	Compression-driven migration of nanoparticles in semiflexible polymer brushes. <i>Polymer</i> , 2016, 83, 67-76.	3.8	7
22	Modeling Loop Composition and Ion Concentration Effects in RNA Hairpin Folding Stability. <i>Biophysical Journal</i> , 2020, 119, 1439-1455.	0.5	7
23	Self-assembly of nanorods on soft elastic shells. <i>Soft Matter</i> , 2012, 8, 6706.	2.7	6
24	Self-assembly of nanorod/nanoparticle mixtures in polymer brushes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 299-309.	2.1	6
25	Membrane Insertion of MoS <sub>2</sub> Nanosheets: Fresh vs. Aged. <i>Frontiers in Chemistry</i> , 2021, 9, 706917.	3.6	6
26	Orientation transition of nanorods induced by polymer brushes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 392-402.	2.1	5
27	Dynamics of attractive vesicles in shear flow. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2016, 34, 623-636.	3.8	5
28	The adsorption-desorption transition of double-stranded DNA interacting with an oppositely charged dendrimer induced by multivalent anions. <i>Journal of Chemical Physics</i> , 2014, 140, 204912.	3.0	4
29	Wrapping/unwrapping transition of double-stranded DNA in DNA-nanosphere complexes induced by multivalent anions. <i>Soft Matter</i> , 2014, 10, 4875-4884.	2.7	4
30	A Bayes-inspired theory for optimally building an efficient coarse-grained folding force field. <i>Communications in Information and Systems</i> , 2021, 21, 65-83.	0.5	3
31	Collapse-expansion transition of elastic shell induced by grafted polymer chains. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 1480-1488.	2.1	2
32	Self-assembly of binary nanoparticles on soft elastic shells. <i>Journal of Chemical Physics</i> , 2013, 138, 214901.	3.0	2
33	Aggregation behavior of two separate polymers confined between two membranes. <i>Soft Matter</i> , 2012, 8, 1901.	2.7	1
34	Dynamics of polymer-grafted vesicles in shear flow. <i>Materials Today Communications</i> , 2015, 3, 130-136.	1.9	1
35	Ordered structures of small numbers of nanorods induced by semiflexible star polymers. <i>Journal of Chemical Physics</i> , 2014, 141, 104906.	3.0	0
36	External-induced self-assembly of semi-flexible polymers on spherical shell. <i>Computational Materials Science</i> , 2022, 203, 111130.	3.0	0