

# Zhongqiang Yang

## List of Publications by Year in descending order

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58  
papers

2,074  
citations

257101

24  
h-index

233125

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59  
all docs

59  
docs citations

59  
times ranked

2620  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Assembled DNA Hydrogels with Designable Thermal and Enzymatic Responsiveness. <i>Advanced Materials</i> , 2011, 23, 1117-1121.	11.1	363
2	Responsive Double Network Hydrogels of Interpenetrating DNA and CB[8] Host-Guest Supramolecular Systems. <i>Advanced Materials</i> , 2015, 27, 3298-3304.	11.1	201
3	Shape-memory nanoparticles from inherently non-spherical polymer colloids. <i>Nature Materials</i> , 2005, 4, 486-490.	13.3	131
4	DNA-based switchable devices and materials. <i>NPG Asia Materials</i> , 2011, 3, 109-114.	3.8	101
5	Cuboid Vesicles Formed by Frame-Guided Assembly on DNA Origami Scaffolds. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1586-1589.	7.2	85
6	Reversibly tuning the mechanical properties of a DNA hydrogel by a DNA nanomotor. <i>Chemical Communications</i> , 2016, 52, 10668-10671.	2.2	68
7	Remote Controlling DNA Hydrogel by Magnetic Field. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 1995-2000.	4.0	59
8	Spatiotemporally Controlled Release of Rho-Inhibiting C3 Toxin from a Protein-DNA Hybrid Hydrogel for Targeted Inhibition of Osteoclast Formation and Activity. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700392.	3.9	57
9	Amphiphilic DNA-dendron hybrid: a new building block for functional assemblies. <i>Soft Matter</i> , 2011, 7, 7187.	1.2	55
10	Thermal and UV Shape Shifting of Surface Topography. <i>Journal of the American Chemical Society</i> , 2006, 128, 1074-1075.	6.6	52
11	Ultrafast, High-Contractile Electrothermal-Driven Liquid Crystal Elastomer Fibers towards Artificial Muscles. <i>Small</i> , 2021, 17, e2103700.	5.2	52
12	A novel, label-free liquid crystal biosensor for Parkinson's disease related alpha-synuclein. <i>Chemical Communications</i> , 2020, 56, 5441-5444.	2.2	49
13	Liquid Crystal Elastomer Twist Fibers toward Rotating Microengines. <i>Advanced Materials</i> , 2022, 34, e2107840.	11.1	49
14	A supramolecular hydrogel with identical cross-linking point density but distinctive rheological properties. <i>Materials Chemistry Frontiers</i> , 2017, 1, 654-659.	3.2	38
15	Heterogeneous nucleants for crystallogensis and bioseparation. <i>Current Opinion in Chemical Engineering</i> , 2015, 8, 69-75.	3.8	36
16	Folding DNA into a Lipid-Conjugated Nanobarrel for Controlled Reconstitution of Membrane Proteins. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2072-2076.	7.2	36
17	Terminal PEGylated DNA-Gold Nanoparticle Conjugates Offering High Resistance to Nuclease Degradation and Efficient Intracellular Delivery of DNA Binding Agents. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 18707-18716.	4.0	35
18	Using Small Molecules to Prepare Vesicles with Designable Shapes and Sizes via Frame-Guided Assembly Strategy. <i>Small</i> , 2015, 11, 3768-3771.	5.2	33

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19	Design of Biomolecular Interfaces Using Liquid Crystals Containing Oligomeric Ethylene Glycol. <i>Advanced Functional Materials</i> , 2010, 20, 2098-2106.	7.8	31
20	Stability study of tubular DNA origami in the presence of protein crystallisation buffer. <i>RSC Advances</i> , 2015, 5, 58734-58737.	1.7	30
21	A switchable DNA origami nanochannel for regulating molecular transport at the nanometer scale. <i>Nanoscale</i> , 2016, 8, 3944-3948.	2.8	30
22	Bioinspired Construction of Artificial Cardiac Muscles Based on Liquid Crystal Elastomer Fibers. <i>Advanced Materials Technologies</i> , 2022, 7, 2100934.	3.0	29
23	Spontaneous Formation of Water Droplets at Oil-Solid Interfaces. <i>Langmuir</i> , 2010, 26, 13797-13804.	1.6	28
24	A brief review of methods for terminal functionalization of DNA. <i>Methods</i> , 2014, 67, 116-122.	1.9	27
25	DNA Origami as Seeds for Promoting Protein Crystallization. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 44240-44246.	4.0	23
26	Simple, rapid and sensitive detection of Parkinson's disease related alpha-synuclein using a DNA aptamer assisted liquid crystal biosensor. <i>Soft Matter</i> , 2021, 17, 4842-4847.	1.2	23
27	The Integration of Sensing and Actuating based on a Simple Design Fiber Actuator towards Intelligent Soft Robots. <i>Advanced Materials Technologies</i> , 2022, 7, 2101260.	3.0	23
28	Spatial regulation of synthetic and biological nanoparticles by DNA nanotechnology. <i>NPG Asia Materials</i> , 2015, 7, e161-e161.	3.8	21
29	Preparation and Self-Assembly of Supramolecular Coil-Rod-Coil Triblock Copolymer PPO-dsDNA-PPO. <i>Macromolecules</i> , 2015, 48, 7550-7556.	2.2	19
30	The Assembly of DNA Amphiphiles at Liquid Crystal-Aqueous Interface. <i>Nanomaterials</i> , 2016, 6, 229.	1.9	19
31	Beyond displays: The recent progress of liquid crystals for bio/chemical detections. <i>Science Bulletin</i> , 2013, 58, 2557-2562.	1.7	18
32	Influence of Tetra(ethylene glycol) (EG <sub>4</sub> ) Substitution at the Loop Region on the Intramolecular DNA i-Motif. <i>Macromolecules</i> , 2012, 45, 2643-2647.	2.2	17
33	Investigation of the Assembly Behavior of an Amphiphilic Lipopeptide at the Liquid Crystal-Aqueous Interface. <i>Langmuir</i> , 2019, 35, 2490-2497.	1.6	17
34	Tetrahedron DNA dendrimers and their encapsulation of gold nanoparticles. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 4391-4394.	1.4	16
35	Crystallisation via novel 3D nanotemplates as a tool for protein purification and bio-separation. <i>Journal of Crystal Growth</i> , 2017, 469, 42-47.	0.7	15
36	Cuboid Vesicles Formed by Frame-Guided Assembly on DNA Origami Scaffolds. <i>Angewandte Chemie</i> , 2017, 129, 1608-1611.	1.6	14

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37	Preparation of anisotropic conductive graphene aerogel/polydimethylsiloxane composites as LEGO® modulars. <i>European Polymer Journal</i> , 2019, 112, 487-492.	2.6	13
38	Investigating the Role of Glass and Quartz Substrates on the Formation of Interfacial Droplets. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1151-1159.	1.5	13
39	Folding DNA into a Lipid-Conjugated Nanobarrel for Controlled Reconstitution of Membrane Proteins. <i>Angewandte Chemie</i> , 2018, 130, 2094-2098.	1.6	11
40	Enhancement of Lysozyme Crystallization Using DNA as a Polymeric Additive. <i>Crystals</i> , 2019, 9, 186.	1.0	10
41	Synergistic Effect of Graphene Oxide and Different Valence of Cations on Promoting Catalase Crystallization. <i>Crystal Growth and Design</i> , 2019, 19, 2838-2844.	1.4	9
42	Simple and Rapid Detection of Ibuprofen—A Typical Pharmaceuticals and Personal Care Products—by a Liquid Crystal Aptasensor. <i>Langmuir</i> , 2022, 38, 282-288.	1.6	9
43	A facile method for preparation of emulsion using the high gravity technique. <i>Journal of Colloid and Interface Science</i> , 2017, 506, 120-125.	5.0	8
44	An Overview of Self-Assembly and Morphological Regulation of Amphiphilic DNA Organic Hybrids. <i>Chinese Journal of Chemistry</i> , 2015, 33, 511-516.	2.6	6
45	Improving the sensitivity for DNA sensing based on double-anchored DNA modified gold nanoparticles. <i>Science China Chemistry</i> , 2016, 59, 765-769.	4.2	6
46	Controlling the Accumulation of Water at Oil-Solid Interfaces with Gradient Coating. <i>Journal of Physical Chemistry B</i> , 2017, 121, 6766-6772.	1.2	6
47	Gravity on Crystallization of Lysozyme: Slower or Faster?. <i>Crystal Growth and Design</i> , 2019, 19, 7402-7410.	1.4	6
48	Protein crystal occurrence domains in selective protein crystallisation for bio-separation. <i>CrystEngComm</i> , 2020, 22, 4566-4572.	1.3	6
49	Spatially arranging interfacial droplets at the oil-solid interface. <i>Soft Matter</i> , 2020, 16, 107-113.	1.2	3
50	Combination of liquid crystal and deep learning reveals distinct signatures of Parkinson's disease-related wild-type $\alpha$ -synuclein and six pathogenic mutants. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	1.7	3
51	The growth and shrinkage of water droplets at the oil-solid interface. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 738-748.	5.0	2
52	DNA HYDROGELS: Self-Assembled DNA Hydrogels with Designable Thermal and Enzymatic Responsiveness ( <i>Adv. Mater.</i> 9/2011). <i>Advanced Materials</i> , 2011, 23, 1116-1116.	11.1	1
53	Drug Delivery: Efficient, pH-Triggered Drug Delivery Using a pH-Responsive DNA-Conjugated Gold Nanoparticle ( <i>Adv. Healthcare Mater.</i> 2/2013). <i>Advanced Healthcare Materials</i> , 2013, 2, 380-380.	3.9	1
54	Modified Voronoi Analysis of Spontaneous Formation of Interfacial Droplets on Immersed Oil-Solid Substrates. <i>Langmuir</i> , 2020, 36, 5400-5407.	1.6	1

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55	DNA-Modified Liquid Crystal Droplets. Biosensors, 2022, 12, 275.	2.3	1
56	DNA Hydrogels: A Writable Polypeptideâ€“DNA Hydrogel with Rationally Designed Multiâ€“modification Sites (Small 9â€“10/2015). Small, 2015, 11, 1224-1224.	5.2	0
57	Frontispiz: Folding DNA into a Lipidâ€“Conjugated Nanobarrel for Controlled Reconstitution of Membrane Proteins. Angewandte Chemie, 2018, 130, .	1.6	0
58	Frontispiece: Folding DNA into a Lipidâ€“Conjugated Nanobarrel for Controlled Reconstitution of Membrane Proteins. Angewandte Chemie - International Edition, 2018, 57, .	7.2	0