

Tianyang Cao

List of Publications by Year in Descending Order

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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.

32
papers

2,606
citations

21
h-index

34
g-index

34
ext. papers

3,044
ext. citations

11.9
avg, IF

5
L-index

#	Paper	IF	Citations
32	Shear-Thinning and Designable Responsive Supramolecular DNA Hydrogels Based on Chemically Branched DNA. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 48414-48422	9.5	6
31	Kinetically Interlocking Multiple-Units Polymerization of DNA Double Crossover and Its Application in Hydrogel Formation. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2100182	4.8	3
30	Precise pitch-scaling of carbon nanotube arrays within three-dimensional DNA nanotrenches. <i>Science</i> , 2020 , 368, 874-877	33.3	46
29	Responsive DNA-Based Supramolecular Hydrogels.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 2827-2837	4.1	19
28	On the role of flexibility in linker-mediated DNA hydrogels. <i>Soft Matter</i> , 2020 , 16, 990-1001	3.6	14
27	In Situ Formation of Covalent Second Network in a DNA Supramolecular Hydrogel and Its Application for 3D Cell Imaging. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 4185-4192	9.5	20
26	Fold 2D Woven DNA Origami to Origami+ Structures. <i>Advanced Functional Materials</i> , 2019 , 29, 1809097	15.6	11
25	Self-Collapsing of Single Molecular Poly-Propylene Oxide (PPO) in a 3D DNA Network. <i>Small</i> , 2018 , 14, 1703426	11	14
24	Microrheology of DNA hydrogels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 8137-8142	11.5	51
23	Tuning the Mechanical Properties of a DNA Hydrogel in Three Phases Based on ATP Aptamer. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	19
22	Discotic liquid crystals of cucurbit[7]uril (CB[7])-functionalised Laponite clays. <i>Molecular Physics</i> , 2018 , 116, 2883-2891	1.7	2
21	Stabilization of an intermolecular i-motif by lipid modification of cytosine-oligodeoxynucleotides. <i>Organic and Biomolecular Chemistry</i> , 2018 , 16, 4857-4863	3.9	4
20	Remote Controlling DNA Hydrogel by Magnetic Field. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 1995-2000	9.5	38
19	Supramolecular Hydrogels Based on DNA Self-Assembly. <i>Accounts of Chemical Research</i> , 2017 , 50, 659-668	14.3	201
18	Constructing Tissue-like Complex Structures Using Cell-Laden DNA Hydrogel Bricks. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 12311-12315	9.5	39
17	A supramolecular hydrogel with identical cross-linking point density but distinctive rheological properties. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 654-659	7.8	28
16	Reversibly tuning the mechanical properties of a DNA hydrogel by a DNA nanomotor. <i>Chemical Communications</i> , 2016 , 52, 10668-71	5.8	49

15	A writable polypeptide-DNA hydrogel with rationally designed multi-modification sites. <i>Small</i> , 2015 , 11, 1138-43	11	89
14	Responsive Double Network Hydrogels of Interpenetrating DNA and CB[8] Host-Guest Supramolecular Systems. <i>Advanced Materials</i> , 2015 , 27, 3298-304	24	163
13	Rapid formation of a supramolecular polypeptide-DNA hydrogel for in situ three-dimensional multilayer bioprinting. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 3957-61	16.4	279
12	DNA nanotechnology based on i-motif structures. <i>Accounts of Chemical Research</i> , 2014 , 47, 1853-60	24.3	247
11	Programmable protein-DNA hybrid hydrogels for the immobilization and release of functional proteins. <i>Chemical Communications</i> , 2014 , 50, 14620-2	5.8	55
10	A triggered DNA hydrogel cover to envelop and release single cells. <i>Advanced Materials</i> , 2013 , 25, 4714-24	24	98
9	pH-responsive size-tunable self-assembled DNA dendrimers. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11271-4	16.4	74
8	Influence of Tetra(ethylene glycol) (EG4) Substitution at the Loop Region on the Intramolecular DNA i-Motif. <i>Macromolecules</i> , 2012 , 45, 2643-2647	5.5	15
7	Self-assembled DNA hydrogels with designable thermal and enzymatic responsiveness. <i>Advanced Materials</i> , 2011 , 23, 1117-21	24	284
6	A responsive hidden toehold to enable controllable DNA strand displacement reactions. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 11934-6	16.4	83
5	DNA-based switchable devices and materials. <i>NPG Asia Materials</i> , 2011 , 3, 109-114	10.3	96
4	DNA-molecular-motor-controlled dendron association. <i>Langmuir</i> , 2010 , 26, 12496-9	4	30
3	A pH-Triggered, Fast-Responding DNA Hydrogel. <i>Angewandte Chemie</i> , 2009 , 121, 7796-7799	3.6	108
2	A pH-triggered, fast-responding DNA hydrogel. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 7660-3	16.4	349
1	Alternating-electric-field-enhanced reversible switching of DNA nanocontainers with pH. <i>Nucleic Acids Research</i> , 2007 , 35, e33	20.1	69