Tianyang Cao

List of Publications by Citations

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	A pH-triggered, fast-responding DNA hydrogel. *Angewandte Chemie - International Edition*, **2009**, 48, 7660-3	16.4	349
31	Self-assembled DNA hydrogels with designable thermal and enzymatic responsiveness. *Advanced Materials*, **2011**, 23, 1117-21	24	284
30	Rapid formation of a supramolecular polypeptide-DNA hydrogel for in situ three-dimensional multilayer bioprinting. *Angewandte Chemie - International Edition*, **2015**, 54, 3957-61	16.4	279
29	DNA nanotechnology based on i-motif structures. *Accounts of Chemical Research*, **2014**, 47, 1853-60	24.3	247
28	Supramolecular Hydrogels Based on DNA Self-Assembly. *Accounts of Chemical Research*, **2017**, 50, 659-668	24.3	201
27	Responsive Double Network Hydrogels of Interpenetrating DNA and CB[8] Host-Guest Supramolecular Systems. *Advanced Materials*, **2015**, 27, 3298-304	24	163
26	A pH-Triggered, Fast-Responding DNA Hydrogel. *Angewandte Chemie*, **2009**, 121, 7796-7799	3.6	108
25	A triggered DNA hydrogel cover to envelop and release single cells. *Advanced Materials*, **2013**, 25, 4714-7	24	98
24	DNA-based switchable devices and materials. *NPG Asia Materials*, **2011**, 3, 109-114	10.3	96
23	A writable polypeptide-DNA hydrogel with rationally designed multi-modification sites. *Small*, **2015**, 11, 1138-43	11	89
22	A responsive hidden toehold to enable controllable DNA strand displacement reactions. *Angewandte Chemie - International Edition*, **2011**, 50, 11934-6	16.4	83
21	pH-responsive size-tunable self-assembled DNA dendrimers. *Angewandte Chemie - International Edition*, **2012**, 51, 11271-4	16.4	74
20	Alternating-electric-field-enhanced reversible switching of DNA nanocontainers with pH. *Nucleic Acids Research*, **2007**, 35, e33	20.1	69
19	Programmable protein-DNA hybrid hydrogels for the immobilization and release of functional proteins. *Chemical Communications*, **2014**, 50, 14620-2	5.8	55
18	Microrheology of DNA hydrogels. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 8137-8142	11.5	51
17	Reversibly tuning the mechanical properties of a DNA hydrogel by a DNA nanomotor. *Chemical Communications*, **2016**, 52, 10668-71	5.8	49
16	Precise pitch-scaling of carbon nanotube arrays within three-dimensional DNA nanotrenches. *Science*, **2020**, 368, 874-877	33.3	46

List of Publications

15	Constructing Tissuelike Complex Structures Using Cell-Laden DNA Hydrogel Bricks. *ACS Applied Materials & Interfaces*, **2017**, 9, 12311-12315	9.5	39
14	Remote Controlling DNA Hydrogel by Magnetic Field. *ACS Applied Materials & Interfaces*, **2017**, 9, 1995-2000	9.5	38
13	DNA-molecular-motor-controlled dendron association. *Langmuir*, **2010**, 26, 12496-9	4	30
12	A supramolecular hydrogel with identical cross-linking point density but distinctive rheological properties. *Materials Chemistry Frontiers*, **2017**, 1, 654-659	7.8	28
11	In Situ Formation of Covalent Second Network in a DNA Supramolecular Hydrogel and Its Application for 3D Cell Imaging. *ACS Applied Materials & Interfaces*, **2020**, 12, 4185-4192	9.5	20
10	Responsive DNA-Based Supramolecular Hydrogels.. *ACS Applied Bio Materials*, **2020**, 3, 2827-2837	4.1	19
9	Tuning the Mechanical Properties of a DNA Hydrogel in Three Phases Based on ATP Aptamer. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	19
8	Influence of Tetra(ethylene glycol) (EG4) Substitution at the Loop Region on the Intramolecular DNA i-Motif. *Macromolecules*, **2012**, 45, 2643-2647	5.5	15
7	Self-Collapsing of Single Molecular Poly-Propylene Oxide (PPO) in a 3D DNA Network. *Small*, **2018**, 14, 1703426	11	14
6	On the role of flexibility in linker-mediated DNA hydrogels. *Soft Matter*, **2020**, 16, 990-1001	3.6	14
5	Fold 2D Woven DNA Origami to Origami+ Structures. *Advanced Functional Materials*, **2019**, 29, 1809097	15.6	11
4	Shear-Thinning and Designable Responsive Supramolecular DNA Hydrogels Based on Chemically Branched DNA. *ACS Applied Materials & Interfaces*, **2021**, 13, 48414-48422	9.5	6
3	Stabilization of an intermolecular i-motif by lipid modification of cytosine-oligodeoxynucleotides. *Organic and Biomolecular Chemistry*, **2018**, 16, 4857-4863	3.9	4
2	Kinetically Interlocking Multiple-Units Polymerization of DNA Double Crossover and Its Application in Hydrogel Formation. *Macromolecular Rapid Communications*, **2021**, 42, e2100182	4.8	3
1	Discotic liquid crystals of cucurbit[7]uril (CB[7])-functionalised Laponite clays. *Molecular Physics*, **2018**, 116, 2883-2891	1.7	2