

Dayong Yang

List of Publications by Citations

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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.

118
papers

3,661
citations

32
h-index

57
g-index

131
ext. papers

4,766
ext. citations

10.1
avg, IF

5.92
L-index

#	Paper	IF	Citations
118	A mechanical metamaterial made from a DNA hydrogel. <i>Nature Nanotechnology</i> , 2012 , 7, 816-20	28.7	378
117	Fabrication of Aligned Fibrous Arrays by Magnetic Electrospinning. <i>Advanced Materials</i> , 2007 , 19, 3702-3706	19.6	301
116	DNA materials: bridging nanotechnology and biotechnology. <i>Accounts of Chemical Research</i> , 2014 , 47, 1902-11	24.3	182
115	Engineering nanomaterials-based biosensors for food safety detection. <i>Biosensors and Bioelectronics</i> , 2018 , 106, 122-128	11.8	166
114	Highly Fluorescent Chiral N-S-Doped Carbon Dots from Cysteine: Affecting Cellular Energy Metabolism. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2377-2382	16.4	159
113	Electrospun Nanofibrous Membranes: A Novel Solid Substrate for Microfluidic Immunoassays for HIV. <i>Advanced Materials</i> , 2008 , 20, 4770-4775	24	136
112	DNA Functional Materials Assembled from Branched DNA: Design, Synthesis, and Applications. <i>Chemical Reviews</i> , 2020 , 120, 9420-9481	68.1	134
111	Fabrication of necklace-like structures via electrospinning. <i>Langmuir</i> , 2010 , 26, 1186-90	4	109
110	Polymeric DNA hydrogel: Design, synthesis and applications. <i>Progress in Polymer Science</i> , 2019 , 98, 101163-6	33.6	108
109	Non-Metal-Heteroatom-Doped Carbon Dots: Synthesis and Properties. <i>Chemistry - A European Journal</i> , 2019 , 25, 1165-1176	4.8	79
108	Electrospinning of poly(dimethylsiloxane)/poly(methyl methacrylate) nanofibrous membrane: fabrication and application in protein microarrays. <i>Biomacromolecules</i> , 2009 , 10, 3335-40	6.9	70
107	Enhanced transcription and translation in clay hydrogel and implications for early life evolution. <i>Scientific Reports</i> , 2013 , 3, 3165	4.9	65
106	Bio-functional electrospun nanomaterials: From topology design to biological applications. <i>Progress in Polymer Science</i> , 2019 , 91, 1-28	29.6	63
105	Thermostable branched DNA nanostructures as modular primers for polymerase chain reaction. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8699-702	16.4	63
104	Novel DNA materials and their applications. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2010 , 2, 648-69	9.2	63
103	Double Rolling Circle Amplification Generates Physically Cross-Linked DNA Network for Stem Cell Fishing. <i>Journal of the American Chemical Society</i> , 2020 , 142, 3422-3429	16.4	62
102	Super-Soft and Super-Elastic DNA Robot with Magnetically Driven Navigational Locomotion for Cell Delivery in Confined Space. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2490-2495	16.4	56

101	Persistent luminescent metal-organic frameworks with long-lasting near infrared emission for tumor site activated imaging and drug delivery. <i>Biomaterials</i> , 2019 , 217, 119332	15.6	53
100	Incorporation of electrospun nanofibrous PVDF membranes into a microfluidic chip assembled by PDMS and scotch tape for immunoassays. <i>Electrophoresis</i> , 2009 , 30, 3269-75	3.6	53
99	A Fluorescent Biofunctional DNA Hydrogel Prepared by Enzymatic Polymerization. <i>Advanced Healthcare Materials</i> , 2018 , 7, 1700998	10.1	50
98	Chiral Carbon Dots Mimicking Topoisomerase I To Mediate the Topological Rearrangement of Supercoiled DNA Enantioselectively. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 11087-11092	16.4	48
97	A Reversibly Responsive Fluorochromic Hydrogel Based on Lanthanide-Mannose Complex. <i>Advanced Science</i> , 2019 , 6, 1802112	13.6	46
96	Fabrication of one dimensional superfine polymer fibers by double-spinning. <i>Journal of Materials Chemistry</i> , 2011 , 21, 13159		45
95	Nucleic Acid-Based Functional Nanomaterials as Advanced Cancer Therapeutics. <i>Small</i> , 2019 , 15, e1900172	17.2	43
94	Ultrasensitive Detection of Circulating Tumor DNA of Lung Cancer via an Enzymatically Amplified SERS-Based Frequency Shift Assay. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 18145-18152	9.5	41
93	Synthesis of Branched DNA Scaffolded Super-Nanoclusters with Enhanced Antibacterial Performance. <i>Small</i> , 2018 , 14, e1800185	11	38
92	Non-invasive detection of gastric cancer relevant d-amino acids with luminescent DNA/silver nanoclusters. <i>Nanoscale</i> , 2017 , 9, 19367-19373	7.7	37
91	Ultrasensitive Detection of Serum MicroRNA Using Branched DNA-Based SERS Platform Combining Simultaneous Detection of α Fetoprotein for Early Diagnosis of Liver Cancer. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 34869-34877	9.5	37
90	Magnetic DNA Nanogels for Targeting Delivery and Multistimuli-Triggered Release of Anticancer Drugs.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 2012-2020	4.1	35
89	Transformation of Biomass DNA into Biodegradable Materials from Gels to Plastics for Reducing Petrochemical Consumption. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10114-10124	16.4	34
88	Microfluidic-Assisted Fabrication of Clay Microgels for Cell-Free Protein Synthesis. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29308-29313	9.5	33
87	A universal DNA-based protein detection system. <i>Journal of the American Chemical Society</i> , 2013 , 135, 14008-11	16.4	32
86	Persistent Luminescent Nanoparticles Containing Hydrogels for Targeted, Sustained, and Autofluorescence-Free Tumor Metastasis Imaging. <i>Nano Letters</i> , 2020 , 20, 252-260	11.5	32
85	Highly Fluorescent Chiral N-S-Doped Carbon Dots from Cysteine: Affecting Cellular Energy Metabolism. <i>Angewandte Chemie</i> , 2018 , 130, 2401-2406	3.6	31
84	Spatiotemporally programmable cascade hybridization of hairpin DNA in polymeric nanoframework for precise siRNA delivery. <i>Nature Communications</i> , 2021 , 12, 1138	17.4	31

83	Multiresponsive Supramolecular Luminescent Hydrogels Based on a Nucleoside/Lanthanide Complex. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47404-47412	9.5	30
82	Adaptive DNA-based materials for switching, sensing, and logic devices. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6113		26
81	Self-assembly of stem cell membrane-camouflaged nanocomplex for microRNA-mediated repair of myocardial infarction injury. <i>Biomaterials</i> , 2020 , 257, 120256	15.6	25
80	Dual Roles of Metal-Organic Frameworks as Nanocarriers for miRNA Delivery and Adjuvants for Chemodynamic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 6034-6042	9.5	24
79	A DNA Tracer System for Hydrological Environment Investigations. <i>Environmental Science & Technology</i> , 2018 , 52, 1695-1703	10.3	22
78	Construction of Organelle-Like Architecture by Dynamic DNA Assembly in Living Cells. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20651-20658	16.4	22
77	Structure and thermal properties of exfoliated PVC/layered silicate nanocomposites via in situ polymerization. <i>Journal of Thermal Analysis and Calorimetry</i> , 2006 , 84, 355-359	4.1	21
76	Enzymatical biomineralization of DNA nanoflowers mediated by manganese ions for tumor site activated magnetic resonance imaging. <i>Biomaterials</i> , 2021 , 268, 120591	15.6	20
75	Self-Healing Anti-Atomic-Oxygen Phosphorus-Containing Polyimide Film via Molecular Level Incorporation of Nanocage Trisilanolphenyl POSS: Preparation and Characterization. <i>Polymers</i> , 2019 , 11,	4.5	19
74	Super-Soft DNA/Dopamine-Grafted-Dextran Hydrogel as Dynamic Wire for Electric Circuits Switched by a Microbial Metabolism Process. <i>Advanced Science</i> , 2020 , 7, 2000684	13.6	19
73	A recyclable biointerface based on cross-linked branched DNA nanostructures for ultrasensitive nucleic acid detection. <i>Biosensors and Bioelectronics</i> , 2018 , 117, 562-566	11.8	18
72	Gene Circuit Compartment on Nanointerface Facilitating Cascade Gene Expression. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19171-19177	16.4	18
71	Controllable assembly/disassembly of polyphenol-DNA nanocomplex for cascade-responsive drug release in cancer cells. <i>Biomaterials</i> , 2021 , 273, 120846	15.6	18
70	One-step fabrication of porous polymeric microcage via electrified jetting. <i>Nanoscale</i> , 2010 , 2, 910-2	7.7	17
69	Control of the morphology of micro/nanostructures of polycarbonate via electrospinning. <i>Science Bulletin</i> , 2009 , 54, 2911-2917		17
68	Study on the viscoelastic properties of the epoxy surface by means of nanodynamic mechanical analysis. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008 , 46, 281-288	2.6	17
67	Effect of pulsed Nd:YAG laser processing parameters on surface properties of polyimide films. <i>Surface and Coatings Technology</i> , 2019 , 361, 102-111	4.4	17
66	Branched DNA Architectures Produced by PCR-Based Assembly as Gene Compartments for Cell-Free Gene-Expression Reactions. <i>ChemBioChem</i> , 2019 , 20, 2597-2603	3.8	16

65	Thermostable Branched DNA Nanostructures as Modular Primers for Polymerase Chain Reaction. <i>Angewandte Chemie</i> , 2013 , 125, 8861-8864	3.6	16
64	Arranging junctions for nanofibers. <i>Nanoscale</i> , 2010 , 2, 218-21	7.7	16
63	Lanthanide based white-light-emitting hydrogel mediated by fluorescein and carbon dots with high quantum yield and multi-stimuli responsiveness. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 3380-3385	7.1	15
62	Fabrication and Wettability of Colloidal Layered Double Hydroxide-Containing PVA Electrospun Nanofibrous Mats. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 5610-5615	3.9	15
61	Responsive disassembly of nucleic acid nanocomplex in cells for precision medicine. <i>Nano Today</i> , 2021 , 39, 101160	17.9	15
60	Multiresponsive White-Light Emitting Aerogel Prepared with Codoped Lanthanide/Thymidine/Carbon Dots. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 22191-22199	9.5	14
59	A Synergistic DNA-polydopamine-MnO Nanocomplex for Near-Infrared-Light-Powered DNAzyme-Mediated Gene Therapy. <i>Nano Letters</i> , 2021 , 21, 5377-5385	11.5	14
58	Glioblastoma precision therapy: From the bench to the clinic. <i>Cancer Letters</i> , 2020 , 475, 79-91	9.9	13
57	Controlled wrinkle formation via bubble inflation strain engineering. <i>Soft Matter</i> , 2010 , 6, 4580	3.6	13
56	Sustainable Bioplastic Made from Biomass DNA and Ionomers. <i>Journal of the American Chemical Society</i> , 2021 , 143, 19486-19497	16.4	12
55	Chiral Carbon Dots Mimicking Topoisomerase I To Mediate the Topological Rearrangement of Supercoiled DNA Enantioselectively. <i>Angewandte Chemie</i> , 2020 , 132, 11180-11185	3.6	11
54	Programmable DNA Nanoflowers for Biosensing, Bioimaging, and Therapeutics. <i>Chemistry - A European Journal</i> , 2020 , 26, 14512-14524	4.8	11
53	Bioinspired Mechanically Responsive Hydrogel upon Redox Mediated by Dynamic Coordination between Telluroether and Platinum Ions. <i>Chemistry of Materials</i> , 2020 , 32, 2156-2165	9.6	10
52	Supramolecular hydrogel with luminescence tunability and responsiveness based on co-doped lanthanide and deoxyguanosine complex. <i>Chemical Engineering Journal</i> , 2020 , 394, 124894	14.7	10
51	Substrate-induced controllable wrinkling for facile nanofabrication. <i>Macromolecular Rapid Communications</i> , 2009 , 30, 1549-53	4.8	9
50	Recent advances in improving tumor-targeted delivery of imaging nanoprobe. <i>Biomaterials Science</i> , 2020 , 8, 4129-4146	7.4	8
49	Biosynthetic molecular imaging probe for tumor-targeted dual-modal fluorescence/magnetic resonance imaging. <i>Biomaterials</i> , 2020 , 256, 120220	15.6	8
48	T Lymphocyte-Captured DNA Network for Localized Immunotherapy. <i>Journal of the American Chemical Society</i> , 2021 , 143, 19330-19340	16.4	8

47	Super-Soft and Super-Elastic DNA Robot with Magnetically Driven Navigational Locomotion for Cell Delivery in Confined Space. <i>Angewandte Chemie</i> , 2020 , 132, 2511-2516	3.6	8
46	Luminescent Ultralong Microfibers Prepared through Supramolecular Self-Assembly of Lanthanide Ions and Thymidine in Water. <i>Chemistry - A European Journal</i> , 2018 , 24, 18890-18896	4.8	8
45	Rolling circle amplification (RCA)-based DNA hydrogel. <i>Nature Protocols</i> , 2021 , 16, 5460-5483	18.8	7
44	DNA-based engineering system for improving human and environmental health: Identification, detection, and treatment. <i>Nano Today</i> , 2020 , 35, 100958	17.9	7
43	Emerging Advances of Cell-Free Systems toward Artificial Cells. <i>Small Methods</i> , 2020 , 4, 2000406	12.8	7
42	Encapsulating Microorganisms inside Electrospun Microfibers as a Living Material Enables Room-Temperature Storage of Microorganisms. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38799-38806	9.5	7
41	Mechanism of material removal during orthogonal cutting of graphite/polymer composites. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 82, 1815-1821	3.2	6
40	Biopolymer/plasmid DNA microspheres as tracers for multiplexed hydrological investigation. <i>Chemical Engineering Journal</i> , 2020 , 401, 126035	14.7	6
39	Surface initiated polymerization from integrated poly(dimethylsiloxane) enables crack-free large area wrinkle formation. <i>Polymers for Advanced Technologies</i> , 2012 , 23, 1240-1245	3.2	6
38	A nanofibrous membrane with tunable surface chemistry: preparation and application in protein microarrays. <i>Journal of Materials Chemistry</i> , 2010 , 20, 10228		6
37	Supramolecular Self-Assembled DNA Nanosystem for Synergistic Chemical and Gene Regulations on Cancer Cells. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25557-25566	16.4	6
36	Saccharides Create a Crowding Environment for Gene Expression in Cell-Free Systems. <i>Langmuir</i> , 2019 , 35, 5931-5936	4	5
35	An energy stored DNA-based nanocomplex for laser-free photodynamic therapy.. <i>Advanced Materials</i> , 2022 , e2109920	24	5
34	DNA nanocomplex containing cascade DNazymes and promoter-like Zn-Mn-Ferrite for combined gene/chemo-dynamic therapy. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	5
33	Rake Angle Effect on a Machined Surface in Orthogonal Cutting of Graphite/Polymer Composites. <i>Advances in Materials Science and Engineering</i> , 2018 , 2018, 1-8	1.5	4
32	Molecular design, synthesis and applications of DNA hydrogel. <i>Chinese Science Bulletin</i> , 2014 , 59, 107-115	11.9	4
31	Flash Synthesis of DNA Hydrogel via Supramacromolecular Assembly of DNA Chains and Upconversion Nanoparticles for Cell Engineering. <i>Advanced Functional Materials</i> , 2017 , 2107267	15.6	4
30	Construction of Organelle-Like Architecture by Dynamic DNA Assembly in Living Cells. <i>Angewandte Chemie</i> , 2020 , 132, 20832-20839	3.6	4

29	Recent Progress of Extracellular Vesicle Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 4430-4438	5.5	4
28	Target-Triggered Polymerization of Branched DNA Enables Enzyme-free and Fast Discrimination of Single-Base Changes. <i>IScience</i> , 2019 , 21, 228-240	6.1	3
27	Effects of Different Biodiesel-Diesel Blend Fuel on Combustion and Emission Characteristics of a Diesel Engine. <i>Processes</i> , 2021 , 9, 1984	2.9	3
26	Preparation of biomimetic gene hydrogel via polymerase chain reaction for cell-free protein expression. <i>Science China Chemistry</i> , 2020 , 63, 99-106	7.9	3
25	The Protection Role of Magnesium Ions on Coupled Transcription and Translation in Lyophilized Cell-Free System. <i>ACS Synthetic Biology</i> , 2020 , 9, 856-863	5.7	2
24	pH-Responsive Reversible DNA Self-assembly Mediated by Zwitterion. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 285-290	2.2	2
23	DNA: From Carrier of Genetic Information to Polymeric Materials. <i>Transactions of Tianjin University</i> , 2019 , 25, 301-311	2.9	2
22	A signal processor made from DNA assembly and upconversion nanoparticle for pharmacokinetic study. <i>Nano Today</i> , 2022 , 42, 101352	17.9	2
21	Gene-like Precise Construction of Functional DNA Materials. <i>Accounts of Materials Research</i> ,	7.5	2
20	A Proton-Activatable DNA-Based Nanosystem Enables Co-Delivery of CRISPR/Cas9 and DNAzyme for Combined Gene Therapy.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	2
19	Material Removal Mechanism of Green Machining on Powder Metallurgy Parts during Orthogonal Cutting. <i>Advances in Materials Science and Engineering</i> , 2020 , 2020, 1-9	1.5	2
18	A Programmable Hybrid DNA Nanogel for Enhanced Photodynamic Therapy of Hypoxic Glioma. <i>Transactions of Tianjin University</i> , 2020 , 26, 450-457	2.9	2
17	Cell lysates and egg white create homeostatic microenvironment for gene expression in cell-free system. <i>Synthetic and Systems Biotechnology</i> , 2018 , 3, 211-216	4.2	2
16	Construction and applications of DNA-based nanomaterials in cancer therapy. <i>Chinese Chemical Letters</i> , 2021 ,	8.1	2
15	Dynamic Transformation of DNA Nanostructures inside Living Cells.. <i>ChemPlusChem</i> , 2022 , 87, e202100519	11.9	1
14	A Weighted EFOR Algorithm for Dynamic Parametrical Model Identification of the Nonlinear System. <i>Processes</i> , 2021 , 9, 2113	2.9	1
13	Self-assembly of artificial architectures in living cells Design and applications. <i>Science China Chemistry</i> , ¹	7.9	1
12	Synthesis and Catalytic Property of Ribonucleoside-Derived Carbon Dots.. <i>Small</i> , 2022 , e2106269	11	1

11	A Proton-Activatable DNA-Based Nanosystem Enables Co-Delivery of CRISPR/Cas9 and DNAzyme for Combined Gene Therapy. <i>Angewandte Chemie</i> , e202116569	3.6	o
10	Multimodules integrated functional DNA nanomaterials for intelligent drug delivery. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2021 , e1753	9.2	o
9	Lanthanide-DNA supramolecular hydrogels with tunable and responsive luminescence. <i>Science China Technological Sciences</i> , 1	3.5	o
8	Frequency Sweep Modeling Method for the Rotor-Bearing System in Time Domain Based on Data-Driven Model. <i>Processes</i> , 2022 , 10, 679	2.9	o
7	DNA-functionalized metal-organic framework ratiometric nanoprobe for MicroRNA detection and imaging in live cells. <i>Sensors and Actuators B: Chemical</i> , 2022 , 361, 131676	8.5	o
6	A functional DNA nanosensor for highly sensitive and selective imaging of CLO in atherosclerotic plaques.. <i>Biosensors and Bioelectronics</i> , 2022 , 209, 114273	11.8	o
5	Microfluidic construction of nucleus-like architecture. <i>Chemical Engineering Journal</i> , 2022 , 431, 133997	14.7	
4	Surface Roughness Prediction and Optimization in the Orthogonal Cutting of Graphite/Polymer Composites Based on Artificial Neural Network. <i>Processes</i> , 2021 , 9, 1858	2.9	
3	Tannic acid/clay hydrogel with time-dependent mechanical and adhesive performance enabled by molecular interaction evolution. <i>Polymer</i> , 2021 , 235, 124261	3.9	
2	Micro-rolling Forming of Light Extraction Structure on Substrate for LED Chip-on-Board Package. <i>International Journal of Precision Engineering and Manufacturing</i> , 2020 , 21, 1729-1737	1.7	
1	Aptamer-Based DNA Materials for the Separation and Analysis of Biological Particles. <i>Transactions of Tianjin University</i> , 2021 , 27, 450	2.9	