Dayong Yang

List of Publications by Year in Descending Order

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	An energy stored DNA-based nanocomplex for laser-free photodynamic therapy.. *Advanced Materials*, **2022**, e2109920	24	5
117	Dynamic Transformation of DNA Nanostructures inside Living Cells.. *ChemPlusChem*, **2022**, 87, e202100519	2.9	1
116	A signal processor made from DNA assembly and upconversion nanoparticle for pharmacokinetic study. *Nano Today*, **2022**, 42, 101352	17.9	2
115	A Proton-Activatable DNA-Based Nanosystem Enables Co-Delivery of CRISPR/Cas9 and DNAzyme for Combined Gene Therapy.. *Angewandte Chemie - International Edition*, **2022**,	16.4	2
114	Microfluidic construction of nucleus-like architecture. *Chemical Engineering Journal*, **2022**, 431, 133997	14.7	
113	Synthesis and Catalytic Property of Ribonucleoside-Derived Carbon Dots.. *Small*, **2022**, e2106269	11	1
112	Frequency Sweep Modeling Method for the Rotor-Bearing System in Time Domain Based on Data-Driven Model. *Processes*, **2022**, 10, 679	2.9	0
111	DNA-functionalized metal-organic framework ratiometric nanoprobe for MicroRNA detection and imaging in live cells. *Sensors and Actuators B: Chemical*, **2022**, 361, 131676	8.5	0
110	A functional DNA nanosensor for highly sensitive and selective imaging of ClO in atherosclerotic plaques.. *Biosensors and Bioelectronics*, **2022**, 209, 114273	11.8	0
109	Effects of Different Biodiesel-Diesel Blend Fuel on Combustion and Emission Characteristics of a Diesel Engine. *Processes*, **2021**, 9, 1984	2.9	3
108	Sustainable Bioplastic Made from Biomass DNA and Ionomers. *Journal of the American Chemical Society*, **2021**, 143, 19486-19497	16.4	12
107	T Lymphocyte-Captured DNA Network for Localized Immunotherapy. *Journal of the American Chemical Society*, **2021**, 143, 19330-19340	16.4	8
106	A Weighted EFOR Algorithm for Dynamic Parametrical Model Identification of the Nonlinear System. *Processes*, **2021**, 9, 2113	2.9	1
105	Surface Roughness Prediction and Optimization in the Orthogonal Cutting of Graphite/Polymer Composites Based on Artificial Neural Network. *Processes*, **2021**, 9, 1858	2.9	
104	Tannic acid/clay hydrogel with time-dependent mechanical and adhesive performance enabled by molecular interaction evolution. *Polymer*, **2021**, 235, 124261	3.9	
103	Rolling circle amplification (RCA)-based DNA hydrogel. *Nature Protocols*, **2021**, 16, 5460-5483	18.8	7
102	Controllable assembly/disassembly of polyphenol-DNA nanocomplex for cascade-responsive drug release in cancer cells. *Biomaterials*, **2021**, 273, 120846	15.6	18

101	A Synergistic DNA-polydopamine-MnO Nanocomplex for Near-Infrared-Light-Powered DNAzyme-Mediated Gene Therapy. *Nano Letters*, **2021**, 21, 5377-5385	11.5	14
100	Aptamer-Based DNA Materials for the Separation and Analysis of Biological Particles. *Transactions of Tianjin University*, **2021**, 27, 450	2.9	
99	Enzymatical biomineralization of DNA nanoflowers mediated by manganese ions for tumor site activated magnetic resonance imaging. *Biomaterials*, **2021**, 268, 120591	15.6	20
98	Spatiotemporally programmable cascade hybridization of hairpin DNA in polymeric nanoframework for precise siRNA delivery. *Nature Communications*, **2021**, 12, 1138	17.4	31
97	Recent Progress of Extracellular Vesicle Engineering. *ACS Biomaterials Science and Engineering*, **2021**, 7, 4430-4438	5.5	4
96	Responsive disassembly of nucleic acid nanocomplex in cells for precision medicine. *Nano Today*, **2021**, 39, 101160	17.9	15
95	Multimodules integrated functional DNA nanomaterials for intelligent drug delivery. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2021**, e1753	9.2	0
94	Construction and applications of DNA-based nanomaterials in cancer therapy. *Chinese Chemical Letters*, **2021**,	8.1	2
93	Supramolecular Self-Assembled DNA Nanosystem for Synergistic Chemical and Gene Regulations on Cancer Cells. *Angewandte Chemie - International Edition*, **2021**, 60, 25557-25566	16.4	6
92	Dual Roles of Metal-Organic Frameworks as Nanocarriers for miRNA Delivery and Adjuvants for Chemodynamic Therapy. *ACS Applied Materials & Interfaces*, **2021**, 13, 6034-6042	9.5	24
91	DNA nanocomplex containing cascade DNAzymes and promoter-like Zn-Mn-Ferrite for combined gene/chemo-dynamic therapy. *Angewandte Chemie - International Edition*, **2021**,	16.4	5
90	Transformation of Biomass DNA into Biodegradable Materials from Gels to Plastics for Reducing Petrochemical Consumption. *Journal of the American Chemical Society*, **2020**, 142, 10114-10124	16.4	34
89	Chiral Carbon Dots Mimicking Topoisomerase I To Mediate the Topological Rearrangement of Supercoiled DNA Enantioselectively. *Angewandte Chemie*, **2020**, 132, 11180-11185	3.6	11
88	Chiral Carbon Dots Mimicking Topoisomerase I To Mediate the Topological Rearrangement of Supercoiled DNA Enantioselectively. *Angewandte Chemie - International Edition*, **2020**, 59, 11087-11092	16.4	48
87	The Protection Role of Magnesium Ions on Coupled Transcription and Translation in Lyophilized Cell-Free System. *ACS Synthetic Biology*, **2020**, 9, 856-863	5.7	2
86	Recent advances in improving tumor-targeted delivery of imaging nanoprobes. *Biomaterials Science* , **2020**, 8, 4129-4146	7.4	8
85	Biosynthetic molecular imaging probe for tumor-targeted dual-modal fluorescence/magnetic resonance imaging. *Biomaterials*, **2020**, 256, 120220	15.6	8
84	Biopolymer/plasmid DNA microspheres as tracers for multiplexed hydrological investigation. *Chemical Engineering Journal*, **2020**, 401, 126035	14.7	6

83	Bioinspired Mechanically Responsive Hydrogel upon Redox Mediated by Dynamic Coordination between Telluroether and Platinum Ions. *Chemistry of Materials*, **2020**, 32, 2156-2165	9.6	10
82	pH-Responsive Reversible DNA Self-assembly Mediated by Zwitterion. *Chemical Research in Chinese Universities*, **2020**, 36, 285-290	2.2	2
81	Lanthanide based white-light-emitting hydrogel mediated by fluorescein and carbon dots with high quantum yield and multi-stimuli responsiveness. *Journal of Materials Chemistry C*, **2020**, 8, 3380-3385	7.1	15
80	Glioblastoma precision therapy: From the bench to the clinic. *Cancer Letters*, **2020**, 475, 79-91	9.9	13
79	Supramolecular hydrogel with luminescence tunablility and responsiveness based on co-doped lanthanide and deoxyguanosine complex. *Chemical Engineering Journal*, **2020**, 394, 124894	14.7	10
78	Multiresponsive White-Light Emitting Aerogel Prepared with Codoped Lanthanide/Thymidine/Carbon Dots. *ACS Applied Materials & Interfaces*, **2020**, 12, 22191-22199	9.5	14
77	Double Rolling Circle Amplification Generates Physically Cross-Linked DNA Network for Stem Cell Fishing. *Journal of the American Chemical Society*, **2020**, 142, 3422-3429	16.4	62
76	Preparation of biomimetic gene hydrogel via polymerase chain reaction for cell-free protein expression. *Science China Chemistry*, **2020**, 63, 99-106	7.9	3
75	Super-Soft and Super-Elastic DNA Robot with Magnetically Driven Navigational Locomotion for Cell Delivery in Confined Space. *Angewandte Chemie - International Edition*, **2020**, 59, 2490-2495	16.4	56
74	Super-Soft and Super-Elastic DNA Robot with Magnetically Driven Navigational Locomotion for Cell Delivery in Confined Space. *Angewandte Chemie*, **2020**, 132, 2511-2516	3.6	8
73	Persistent Luminescent Nanoparticles Containing Hydrogels for Targeted, Sustained, and Autofluorescence-Free Tumor Metastasis Imaging. *Nano Letters*, **2020**, 20, 252-260	11.5	32
72	Programmable DNA Nanoflowers for Biosensing, Bioimaging, and Therapeutics. *Chemistry - A European Journal*, **2020**, 26, 14512-14524	4.8	11
71	Micro-rolling Forming of Light Extraction Structure on Substrate for LED Chip-on-Board Package. *International Journal of Precision Engineering and Manufacturing*, **2020**, 21, 1729-1737	1.7	
70	DNA Functional Materials Assembled from Branched DNA: Design, Synthesis, and Applications. *Chemical Reviews*, **2020**, 120, 9420-9481	68.1	134
69	Material Removal Mechanism of Green Machining on Powder Metallurgy Parts during Orthogonal Cutting. *Advances in Materials Science and Engineering*, **2020**, 2020, 1-9	1.5	2
68	Self-assembly of stem cell membrane-camouflaged nanocomplex for microRNA-mediated repair of myocardial infarction injury. *Biomaterials*, **2020**, 257, 120256	15.6	25
67	Construction of Organelle-Like Architecture by Dynamic DNA Assembly in Living Cells. *Angewandte Chemie - International Edition*, **2020**, 59, 20651-20658	16.4	22
66	Construction of Organelle-Like Architecture by Dynamic DNA Assembly in Living Cells. *Angewandte Chemie*, **2020**, 132, 20832-20839	3.6	4

65	A Programmable Hybrid DNA Nanogel for Enhanced Photodynamic Therapy of Hypoxic Glioma. *Transactions of Tianjin University*, **2020**, 26, 450-457	2.9	2
64	DNA-based engineering system for improving human and environmental health: Identification, detection, and treatment. *Nano Today*, **2020**, 35, 100958	17.9	7
63	Emerging Advances of Cell-Free Systems toward Artificial Cells. *Small Methods*, **2020**, 4, 2000406	12.8	7
62	Super-Soft DNA/Dopamine-Grafted-Dextran Hydrogel as Dynamic Wire for Electric Circuits Switched by a Microbial Metabolism Process. *Advanced Science*, **2020**, 7, 2000684	13.6	19
61	Polymeric DNA hydrogel: Design, synthesis and applications. *Progress in Polymer Science*, **2019**, 98, 101163	29.6	108
60	Self-Healing Anti-Atomic-Oxygen Phosphorus-Containing Polyimide Film via Molecular Level Incorporation of Nanocage Trisilanolphenyl POSS: Preparation and Characterization. *Polymers*, **2019**, 11,	4.5	19
59	Ultrasensitive Detection of Circulating Tumor DNA of Lung Cancer via an Enzymatically Amplified SERS-Based Frequency Shift Assay. *ACS Applied Materials & Interfaces*, **2019**, 11, 18145-18152	9.5	41
58	A Reversibly Responsive Fluorochromic Hydrogel Based on Lanthanide-Mannose Complex. *Advanced Science*, **2019**, 6, 1802112	13.6	46
57	Saccharides Create a Crowding Environment for Gene Expression in Cell-Free Systems. *Langmuir*, **2019**, 35, 5931-5936	4	5
56	Nucleic Acid-Based Functional Nanomaterials as Advanced Cancer Therapeutics. *Small*, **2019**, 15, e1900172	11	43
55	Branched DNA Architectures Produced by PCR-Based Assembly as Gene Compartments for Cell-Free Gene-Expression Reactions. *ChemBioChem*, **2019**, 20, 2597-2603	3.8	16
54	Bio-functional electrospun nanomaterials: From topology design to biological applications. *Progress in Polymer Science*, **2019**, 91, 1-28	29.6	63
53	Non-Metal-Heteroatom-Doped Carbon Dots: Synthesis and Properties. *Chemistry - A European Journal*, **2019**, 25, 1165-1176	4.8	79
52	Persistent luminescent metal-organic frameworks with long-lasting near infrared emission for tumor site activated imaging and drug delivery. *Biomaterials*, **2019**, 217, 119332	15.6	53
51	DNA: From Carrier of Genetic Information to Polymeric Materials. *Transactions of Tianjin University*, **2019**, 25, 301-311	2.9	2
50	Gene Circuit Compartment on Nanointerface Facilitatating Cascade Gene Expression. *Journal of the American Chemical Society*, **2019**, 141, 19171-19177	16.4	18
49	Target-Triggered Polymerization of Branched DNA Enables Enzyme-free and Fast Discrimination of Single-Base Changes. *IScience*, **2019**, 21, 228-240	6.1	3
48	Multiresponsive Supramolecular Luminescent Hydrogels Based on a Nucleoside/Lanthanide Complex. *ACS Applied Materials & Interfaces*, **2019**, 11, 47404-47412	9.5	30

47	Effect of pulsed Nd:YAG laser processing parameters on surface properties of polyimide films. *Surface and Coatings Technology*, **2019**, 361, 102-111	4.4	17
46	Synthesis of Branched DNA Scaffolded Super-Nanoclusters with Enhanced Antibacterial Performance. *Small*, **2018**, 14, e1800185	11	38
45	Engineering nanomaterials-based biosensors for food safety detection. *Biosensors and Bioelectronics*, **2018**, 106, 122-128	11.8	166
44	Highly Fluorescent Chiral N-S-Doped Carbon Dots from Cysteine: Affecting Cellular Energy Metabolism. *Angewandte Chemie*, **2018**, 130, 2401-2406	3.6	31
43	Highly Fluorescent Chiral N-S-Doped Carbon Dots from Cysteine: Affecting Cellular Energy Metabolism. *Angewandte Chemie - International Edition*, **2018**, 57, 2377-2382	16.4	159
42	A DNA Tracer System for Hydrological Environment Investigations. *Environmental Science & Technology*, **2018**, 52, 1695-1703	10.3	22
41	A Fluorescent Biofunctional DNA Hydrogel Prepared by Enzymatic Polymerization. *Advanced Healthcare Materials*, **2018**, 7, 1700998	10.1	50
40	A recyclable biointerface based on cross-linked branched DNA nanostructures for ultrasensitive nucleic acid detection. *Biosensors and Bioelectronics*, **2018**, 117, 562-566	11.8	18
39	Rake Angle Effect on a Machined Surface in Orthogonal Cutting of Graphite/Polymer Composites. *Advances in Materials Science and Engineering*, **2018**, 2018, 1-8	1.5	4
38	Microfluidic-Assisted Fabrication of Clay Microgels for Cell-Free Protein Synthesis. *ACS Applied Materials & Interfaces*, **2018**, 10, 29308-29313	9.5	33
37	Magnetic DNA Nanogels for Targeting Delivery and Multistimuli-Triggered Release of Anticancer Drugs.. *ACS Applied Bio Materials*, **2018**, 1, 2012-2020	4.1	35
36	Ultrasensitive Detection of Serum MicroRNA Using Branched DNA-Based SERS Platform Combining Simultaneous Detection of Fetoprotein for Early Diagnosis of Liver Cancer. *ACS Applied Materials & Interfaces*, **2018**, 10, 34869-34877	9.5	37
35	Cell lysates and egg white create homeostatic microenvironment for gene expression in cell-free system. *Synthetic and Systems Biotechnology*, **2018**, 3, 211-216	4.2	2
34	Luminescent Ultralong Microfibers Prepared through Supramolecular Self-Assembly of Lanthanide Ions and Thymidine in Water. *Chemistry - A European Journal*, **2018**, 24, 18890-18896	4.8	8
33	Encapsulating Microorganisms inside Electrospun Microfibers as a Living Material Enables Room-Temperature Storage of Microorganisms. *ACS Applied Materials & Interfaces*, **2018**, 10, 38799-38806	9.5	7
32	Non-invasive detection of gastric cancer relevant d-amino acids with luminescent DNA/silver nanoclusters. *Nanoscale*, **2017**, 9, 19367-19373	7.7	37
31	Mechanism of material removal during orthogonal cutting of graphite/polymer composites. *International Journal of Advanced Manufacturing Technology*, **2016**, 82, 1815-1821	3.2	6
30	DNA materials: bridging nanotechnology and biotechnology. *Accounts of Chemical Research*, **2014**, 47, 1902-11	24.3	182

29	Molecular design, synthesis and applications of DNA hydrogel. *Chinese Science Bulletin*, **2014**, 59, 107-115	1.9	4
28	A universal DNA-based protein detection system. *Journal of the American Chemical Society*, **2013**, 135, 14008-11	16.4	32
27	Enhanced transcription and translation in clay hydrogel and implications for early life evolution. *Scientific Reports*, **2013**, 3, 3165	4.9	65
26	Thermostable branched DNA nanostructures as modular primers for polymerase chain reaction. *Angewandte Chemie - International Edition*, **2013**, 52, 8699-702	16.4	63
25	Thermostable Branched DNA Nanostructures as Modular Primers for Polymerase Chain Reaction. *Angewandte Chemie*, **2013**, 125, 8861-8864	3.6	16
24	A mechanical metamaterial made from a DNA hydrogel. *Nature Nanotechnology*, **2012**, 7, 816-20	28.7	378
23	Surface initiated polymerization from integrated poly(dimethylsiloxane) enables crack-free large area wrinkle formation. *Polymers for Advanced Technologies*, **2012**, 23, 1240-1245	3.2	6
22	Fabrication of one dimensional superfine polymer fibers by double-spinning. *Journal of Materials Chemistry*, **2011**, 21, 13159		45
21	Adaptive DNA-based materials for switching, sensing, and logic devices. *Journal of Materials Chemistry*, **2011**, 21, 6113		26
20	Fabrication and Wettability of Colloidal Layered Double Hydroxide-Containing PVA Electrospun Nanofibrous Mats. *Industrial & Engineering Chemistry Research*, **2010**, 49, 5610-5615	3.9	15
19	A nanofibrous membrane with tunable surface chemistry: preparation and application in protein microarrays. *Journal of Materials Chemistry*, **2010**, 20, 10228		6
18	One-step fabrication of porous polymeric microcage via electrified jetting. *Nanoscale*, **2010**, 2, 910-2	7.7	17
17	Controlled wrinkle formation via bubble inflation strain engineering. *Soft Matter*, **2010**, 6, 4580	3.6	13
16	Fabrication of necklace-like structures via electrospinning. *Langmuir*, **2010**, 26, 1186-90	4	109
15	Arranging junctions for nanofibers. *Nanoscale*, **2010**, 2, 218-21	7.7	16
14	Novel DNA materials and their applications. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2010**, 2, 648-69	9.2	63
13	Incorporation of electrospun nanofibrous PVDF membranes into a microfluidic chip assembled by PDMS and scotch tape for immunoassays. *Electrophoresis*, **2009**, 30, 3269-75	3.6	53
12	Substrate-induced controllable wrinkling for facile nanofabrication. *Macromolecular Rapid Communications*, **2009**, 30, 1549-53	4.8	9

11	Control of the morphology of micro/nanostructures of polycarbonate via electrospinning. *Science Bulletin*, **2009**, 54, 2911-2917		17
10	Electrospinning of poly(dimethylsiloxane)/poly(methyl methacrylate) nanofibrous membrane: fabrication and application in protein microarrays. *Biomacromolecules*, **2009**, 10, 3335-40	6.9	70
9	Study on the viscoelastic properties of the epoxy surface by means of nanodynamic mechanical analysis. *Journal of Polymer Science, Part B: Polymer Physics*, **2008**, 46, 281-288	2.6	17
8	Electrospun Nanofibrous Membranes: A Novel Solid Substrate for Microfluidic Immunoassays for HIV. *Advanced Materials*, **2008**, 20, 4770-4775	24	136
7	Fabrication of Aligned Fibrous Arrays by Magnetic Electrospinning. *Advanced Materials*, **2007**, 19, 3702-3706	14	301
6	Structure and thermal properties of exfoliated PVC/layered silicate nanocomposites via in situ polymerization. *Journal of Thermal Analysis and Calorimetry*, **2006**, 84, 355-359	4.1	21
5	Gene-like Precise Construction of Functional DNA Materials. *Accounts of Materials Research*,	7.5	2
4	Flash Synthesis of DNA Hydrogel via Supramacromolecular Assembly of DNA Chains and Upconversion Nanoparticles for Cell Engineering. *Advanced Functional Materials*,2107267	15.6	4
3	Self-assembly of artificial architectures in living cells design and applications. *Science China Chemistry*,1	7.9	1
2	A Proton-Activatable DNA-Based Nanosystem Enables Co-Delivery of CRISPR/Cas9 and DNAzyme for Combined Gene Therapy. *Angewandte Chemie*,e202116569	3.6	0
1	Lanthanide-DNA supramolecular hydrogels with tunable and responsive luminescence. *Science China Technological Sciences*,1	3.5	0