Dayong Yang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3657329/publications.pdf

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130	6,249	57631	76769
papers	citations	44 h-index	74 g-index

131	131	131	6082
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A mechanical metamaterial made from a DNA hydrogel. Nature Nanotechnology, 2012, 7, 816-820.	15.6	484
2	Fabrication of Aligned Fibrous Arrays by Magnetic Electrospinning. Advanced Materials, 2007, 19, 3702-3706.	11.1	347
3	DNA Functional Materials Assembled from Branched DNA: Design, Synthesis, and Applications. Chemical Reviews, 2020, 120, 9420-9481.	23.0	313
4	Engineering nanomaterials-based biosensors for food safety detection. Biosensors and Bioelectronics, 2018, 106, 122-128.	5.3	253
5	Highly Fluorescent Chiral Nâ€Sâ€Doped Carbon Dots from Cysteine: Affecting Cellular Energy Metabolism. Angewandte Chemie - International Edition, 2018, 57, 2377-2382.	7.2	249
6	DNA Materials: Bridging Nanotechnology and Biotechnology. Accounts of Chemical Research, 2014, 47, 1902-1911.	7.6	228
7	Polymeric DNA hydrogel: Design, synthesis and applications. Progress in Polymer Science, 2019, 98, 101163.	11.8	189
8	Electrospun Nanofibrous Membranes: A Novel Solid Substrate for Microfluidic Immunoassays for HIV. Advanced Materials, 2008, 20, 4770-4775.	11.1	149
9	Double Rolling Circle Amplification Generates Physically Cross-Linked DNA Network for Stem Cell Fishing. Journal of the American Chemical Society, 2020, 142, 3422-3429.	6.6	137
10	Fabrication of Necklace-like Structures via Electrospinning. Langmuir, 2010, 26, 1186-1190.	1.6	129
11	Nonâ€Metalâ€Heteroatomâ€Doped Carbon Dots: Synthesis and Properties. Chemistry - A European Journal, 2019, 25, 1165-1176.	1.7	122
12	Superâ€Soft and Superâ€Elastic DNA Robot with Magnetically Driven Navigational Locomotion for Cell Delivery in Confined Space. Angewandte Chemie - International Edition, 2020, 59, 2490-2495.	7.2	104
13	Chiral Carbon Dots Mimicking Topoisomeraseâ€…I To Mediate the Topological Rearrangement of Supercoiled DNA Enantioselectively. Angewandte Chemie - International Edition, 2020, 59, 11087-11092.	7.2	100
14	Bio-functional electrospun nanomaterials: From topology design to biological applications. Progress in Polymer Science, 2019, 91, 1-28.	11.8	92
15	Enhanced transcription and translation in clay hydrogel and implications for early life evolution. Scientific Reports, 2013, 3, 3165.	1.6	86
16	Persistent luminescent metal-organic frameworks with long-lasting near infrared emission for tumor site activated imaging and drug delivery. Biomaterials, 2019, 217, 119332.	5.7	85
17	Spatiotemporally programmable cascade hybridization of hairpin DNA in polymeric nanoframework for precise siRNA delivery. Nature Communications, 2021, 12, 1138.	5.8	84
18	Electrospinning of Poly(dimethylsiloxane)/Poly(methyl methacrylate) Nanofibrous Membrane: Fabrication and Application in Protein Microarrays. Biomacromolecules, 2009, 10, 3335-3340.	2.6	83

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19	Nucleic Acidâ€“Based Functional Nanomaterials as Advanced Cancer Therapeutics. Small, 2019, 15, e1900172.	5.2	80
20	Recent Advances in Hydrogels. Chemistry of Materials, 2022, 34, 1987-1989.	3.2	80
21	Novel DNA materials and their applications. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2010, 2, 648-669.	3.3	79
22	A Reversibly Responsive Fluorochromic Hydrogel Based on Lanthanideâ€“Mannose Complex. Advanced Science, 2019, 6, 1802112.	5.6	76
23	Thermostable Branched DNA Nanostructures as Modular Primers for Polymerase Chain Reaction. Angewandte Chemie - International Edition, 2013, 52, 8699-8702.	7.2	75
24	Dual Roles of Metalâ€“Organic Frameworks as Nanocarriers for miRNA Delivery and Adjuvants for Chemodynamic Therapy. ACS Applied Materials & Interfaces, 2021, 13, 6034-6042.	4.0	73
25	Rolling circle amplification (RCA)-based DNA hydrogel. Nature Protocols, 2021, 16, 5460-5483.	5.5	67
26	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.	6.6	66
27	A Fluorescent Biofunctional DNA Hydrogel Prepared by Enzymatic Polymerization. Advanced Healthcare Materials, 2018, 7, 1700998.	3.9	65
28	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.	4.0	65
29	Persistent Luminescent Nanoparticles Containing Hydrogels for Targeted, Sustained, and Autofluorescence-Free Tumor Metastasis Imaging. Nano Letters, 2020, 20, 252-260.	4.5	62
30	A Synergistic DNA-polydopamine-MnO₂ Nanocomplex for Near-Infrared-Light-Powered DNAzyme-Mediated Gene Therapy. Nano Letters, 2021, 21, 5377-5385.	4.5	62
31	A Protonâ€Activatable DNAâ€Based Nanosystem Enables Coâ€Delivery of CRISPR/Cas9 and DNAzyme for Combined Gene Therapy. Angewandte Chemie - International Edition, 2022, 61, .	7.2	61
32	Non-invasive detection of gastric cancer relevant<scp>d</scp>-amino acids with luminescent DNA/silver nanoclusters. Nanoscale, 2017, 9, 19367-19373.	2.8	60
33	Ultrasensitive Detection of Serum MicroRNA Using Branched DNA-Based SERS Platform Combining Simultaneous Detection of Î±-Fetoprotein for Early Diagnosis of Liver Cancer. ACS Applied Materials & Interfaces, 2018, 10, 34869-34877.	4.0	60
34	Self-assembly of stem cell membrane-camouflaged nanocomplex for microRNA-mediated repair of myocardial infarction injury. Biomaterials, 2020, 257, 120256.	5.7	60
35	Construction of Organelleâ€Like Architecture by Dynamic DNA Assembly in Living Cells. Angewandte Chemie - International Edition, 2020, 59, 20651-20658.	7.2	57
36	A DNA Nanocomplex Containing Cascade DNAzymes and Promoterâ€Like Znâ€Mnâ€Ferrite for Combined Gene/Chemoâ€dynamic Therapy. Angewandte Chemie - International Edition, 2022, 61, .	7.2	57

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37	Incorporation of electrospun nanofibrous PVDF membranes into a microfluidic chip assembled by PDMS and scotch tape for immunoassays. Electrophoresis, 2009, 30, 3269-3275.	1.3	56
38	Dynamic Assembly of DNA Nanostructures in Living Cells for Mitochondrial Interference. Journal of the American Chemical Society, 2022, 144, 4667-4677.	6.6	56
39	Magnetic DNA Nanogels for Targeting Delivery and Multistimuli-Triggered Release of Anticancer Drugs. ACS Applied Bio Materials, 2018, 1, 2012-2020.	2.3	54
40	Synthesis of Branched DNA Scaffolded Superâ€Nanoclusters with Enhanced Antibacterial Performance. Small, 2018, 14, e1800185.	5.2	53
41	Controllable assembly/disassembly of polyphenol-DNA nanocomplex for cascade-responsive drug release in cancer cells. Biomaterials, 2021, 273, 120846.	5.7	53
42	Highly Fluorescent Chiral Nâ€Sâ€Doped Carbon Dots from Cysteine: Affecting Cellular Energy Metabolism. Angewandte Chemie, 2018, 130, 2401-2406.	1.6	52
43	Fabrication of one dimensional superfine polymer fibers by double-spinning. Journal of Materials Chemistry, 2011, 21, 13159.	6.7	51
44	Enzymatical biomineralization of DNA nanoflowers mediated by manganese ions for tumor site activated magnetic resonance imaging. Biomaterials, 2021, 268, 120591.	5.7	51
45	T Lymphocyte-Captured DNA Network for Localized Immunotherapy. Journal of the American Chemical Society, 2021, 143, 19330-19340.	6.6	51
46	Sustainable Bioplastic Made from Biomass DNA and Ionomers. Journal of the American Chemical Society, 2021, 143, 19486-19497.	6.6	50
47	Multiresponsive Supramolecular Luminescent Hydrogels Based on a Nucleoside/Lanthanide Complex. ACS Applied Materials & Interfaces, 2019, 11, 47404-47412.	4.0	42
48	Microfluidic-Assisted Fabrication of Clay Microgels for Cell-Free Protein Synthesis. ACS Applied Materials & Interfaces, 2018, 10, 29308-29313.	4.0	41
49	A DNA Tracer System for Hydrological Environment Investigations. Environmental Science & Technology, 2018, 52, 1695-1703.	4.6	40
50	An Energyâ€Storing DNAâ€Based Nanocomplex for Laserâ€Free Photodynamic Therapy. Advanced Materials, 2022, 34, e2109920.	11.1	40
51	Supramolecular Selfâ€Assembled DNA Nanosystem for Synergistic Chemical and Gene Regulations on Cancer Cells. Angewandte Chemie - International Edition, 2021, 60, 25557-25566.	7.2	36
52	A Universal DNA-Based Protein Detection System. Journal of the American Chemical Society, 2013, 135, 14008-14011.	6.6	35
53	Responsive disassembly of nucleic acid nanocomplex in cells for precision medicine. Nano Today, 2021, 39, 101160.	6.2	35
54	Superâ€Soft DNA/Dopamineâ€Graftedâ€Dextran Hydrogel as Dynamic Wire for Electric Circuits Switched by a Microbial Metabolism Process. Advanced Science, 2020, 7, 2000684.	5.6	35

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55	Multiresponsive White-Light Emitting Aerogel Prepared with Codoped Lanthanide/Thymidine/Carbon Dots. ACS Applied Materials & Interfaces, 2020, 12, 22191-22199.	4.0	34
56	Programmable DNA Nanoflowers for Biosensing, Bioimaging, and Therapeutics. Chemistry - A European Journal, 2020, 26, 14512-14524.	1.7	32
57	Self-Healing Anti-Atomic-Oxygen Phosphorus-Containing Polyimide Film via Molecular Level Incorporation of Nanocage Trisilanolphenyl POSS: Preparation and Characterization. Polymers, 2019, 11, 1013.	2.0	31
58	Gene Circuit Compartment on Nanointerface Facilitatating Cascade Gene Expression. Journal of the American Chemical Society, 2019, 141, 19171-19177.	6.6	27
59	Effect of pulsed Nd:YAG laser processing parameters on surface properties of polyimide films. Surface and Coatings Technology, 2019, 361, 102-111.	2.2	27
60	Glioblastoma precision therapy: From the bench to the clinic. Cancer Letters, 2020, 475, 79-91.	3.2	27
61	DNA Supramolecular Assembly on Micro/Nanointerfaces for Bioanalysis. Accounts of Chemical Research, 2022, 55, 2043-2054.	7.6	27
62	Adaptive DNA-based materials for switching, sensing, and logic devices. Journal of Materials Chemistry, 2011, 21, 6113.	6.7	26
63	A recyclable biointerface based on cross-linked branched DNA nanostructures for ultrasensitive nucleic acid detection. Biosensors and Bioelectronics, 2018, 117, 562-566.	5.3	26
64	Branched DNA Architectures Produced by PCRâ€Based Assembly as Gene Compartments for Cellâ€Free Geneâ€Expression Reactions. ChemBioChem, 2019, 20, 2597-2603.	1.3	26
65	Flash Synthesis of DNA Hydrogel via Supramacromolecular Assembly of DNA Chains and Upconversion Nanoparticles for Cell Engineering. Advanced Functional Materials, 2022, 32, 2107267.	7.8	26
66	DNA-functionalized metal-organic framework ratiometric nanoprobe for MicroRNA detection and imaging in live cells. Sensors and Actuators B: Chemical, 2022, 361, 131676.	4.0	26
67	Structure and thermal properties of exfoliated PVC/layered silicate nanocomposites via in situ polymerization. Journal of Thermal Analysis and Calorimetry, 2006, 84, 355-359.	2.0	25
68	Chiral Carbon Dots Mimicking Topoisomeraseâ€…I To Mediate the Topological Rearrangement of Supercoiled DNA Enantioselectively. Angewandte Chemie, 2020, 132, 11180-11185.	1.6	25
69	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.	2.7	23
70	Construction and applications of DNA-based nanomaterials in cancer therapy. Chinese Chemical Letters, 2022, 33, 1131-1140.	4.8	22
71	Effects of Different Biodiesel-Diesel Blend Fuel on Combustion and Emission Characteristics of a Diesel Engine. Processes, 2021, 9, 1984.	1.3	21
72	Control of the morphology of micro/nanostructures of polycarbonate via electrospinning. Science Bulletin, 2009, 54, 2911-2917.	1.7	20

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73	One-step fabrication of porous polymeric microcage via electrified jetting. Nanoscale, 2010, 2, 910.	2.8	19
74	Emerging Advances of Cellâ€Free Systems toward Artificial Cells. Small Methods, 2020, 4, 2000406.	4.6	19
75	Biosynthetic molecular imaging probe for tumor-targeted dual-modal fluorescence/magnetic resonance imaging. Biomaterials, 2020, 256, 120220.	5.7	19
76	Recent Progress of Extracellular Vesicle Engineering. ACS Biomaterials Science and Engineering, 2021, 7, 4430-4438.	2.6	19
77	Construction of rolling circle amplification-based DNA nanostructures for biomedical applications. Biomaterials Science, 2022, 10, 3054-3061.	2.6	19
78	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.	2.4	18
79	Bioinspired Mechanically Responsive Hydrogel upon Redox Mediated by Dynamic Coordination between Telluroether and Platinum Ions. Chemistry of Materials, 2020, 32, 2156-2165.	3.2	18
80	A signal processor made from DNA assembly and upconversion nanoparticle for pharmacokinetic study. Nano Today, 2022, 42, 101352.	6.2	18
81	Arranging junctions for nanofibers. Nanoscale, 2010, 2, 218-221.	2.8	17
82	Supramolecular hydrogel with luminescence tunablility and responsiveness based on co-doped lanthanide and deoxyguanosine complex. Chemical Engineering Journal, 2020, 394, 124894.	6.6	17
83	Gene-like Precise Construction of Functional DNA Materials. Accounts of Materials Research, 2022, 3, 42-53.	5.9	17
84	Fabrication and Wettability of Colloidal Layered Double Hydroxide-Containing PVA Electrospun Nanofibrous Mats. Industrial & Engineering Chemistry Research, 2010, 49, 5610-5615.	1.8	15
85	Superâ€Soft and Superâ€Elastic DNA Robot with Magnetically Driven Navigational Locomotion for Cell Delivery in Confined Space. Angewandte Chemie, 2020, 132, 2511-2516.	1.6	15
86	DNA-based engineering system for improving human and environmental health: Identification, detection, and treatment. Nano Today, 2020, 35, 100958.	6.2	15
87	Self-assembly of artificial architectures in living cells â€" design and applications. Science China Chemistry, 2022, 65, 31-47.	4.2	15
88	Controlled wrinkle formation via bubble inflation strain engineering. Soft Matter, 2010, 6, 4580.	1.2	13
89	Recent advances in improving tumor-targeted delivery of imaging nanoprobes. Biomaterials Science, 2020, 8, 4129-4146.	2.6	12
90	Biopolymer/plasmid DNA microspheres as tracers for multiplexed hydrological investigation. Chemical Engineering Journal, 2020, 401, 126035.	6.6	12

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91	Spatio-Temporal Controlled Gene-Chemo Drug Delivery in a DNA Nanocomplex to Overcome Multidrug Resistance of Cancer Cells. ACS Applied Bio Materials, 2022, 5, 3795-3805.	2.3	12
92	Synthesis and Catalytic Property of Ribonucleosideâ€Derived Carbon Dots. Small, 2022, 18, e2106269.	5.2	11
93	A functional DNA nanosensor for highly sensitive and selective imaging of ClOâ¯ in atherosclerotic plaques. Biosensors and Bioelectronics, 2022, 209, 114273.	5.3	11
94	Substrateâ€Induced Controllable Wrinkling for Facile Nanofabrication. Macromolecular Rapid Communications, 2009, 30, 1549-1553.	2.0	10
95	Multimodules integrated functional <scp>DNA</scp> nanomaterials for intelligent drug delivery. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2022, 14, e1753.	3.3	10
96	Luminescent Ultralong Microfibers Prepared through Supramolecular Selfâ€Assembly of Lanthanide Ions and Thymidine in Water. Chemistry - A European Journal, 2018, 24, 18890-18896.	1.7	9
97	Encapsulating Microorganisms inside Electrospun Microfibers as a Living Material Enables Room-Temperature Storage of Microorganisms. ACS Applied Materials & Interfaces, 2018, 10, 38799-38806.	4.0	9
98	Saccharides Create a Crowding Environment for Gene Expression in Cell-Free Systems. Langmuir, 2019, 35, 5931-5936.	1.6	9
99	Mechanism of material removal during orthogonal cutting of graphite/polymer composites. International Journal of Advanced Manufacturing Technology, 2016, 82, 1815-1821.	1.5	8
100	Surface initiated polymerization from integrated poly(dimethylsiloxane) enables crackâ€free large area wrinkle formation. Polymers for Advanced Technologies, 2012, 23, 1240-1245.	1.6	7
101	Construction of Organelleâ€Like Architecture by Dynamic DNA Assembly in Living Cells. Angewandte Chemie, 2020, 132, 20832-20839.	1.6	7
102	A DNA Nanocomplex Containing Cascade DNAzymes and Promoterâ€Like Znâ€Mnâ€Ferrite for Combined Gene/Chemoâ€dynamic Therapy. Angewandte Chemie, 2022, 134, .	1.6	7
103	A nanofibrous membrane with tunable surface chemistry: preparation and application in protein microarrays. Journal of Materials Chemistry, 2010, 20, 10228.	6.7	6
104	Rake Angle Effect on a Machined Surface in Orthogonal Cutting of Graphite/Polymer Composites. Advances in Materials Science and Engineering, 2018, 2018, 1-8.	1.0	6
105	The Protection Role of Magnesium Ions on Coupled Transcription and Translation in Lyophilized Cell-Free System. ACS Synthetic Biology, 2020, 9, 856-863.	1.9	6
106	Surface Roughness Prediction and Optimization in the Orthogonal Cutting of Graphite/Polymer Composites Based on Artificial Neural Network. Processes, 2021, 9, 1858.	1.3	6
107	Dynamic Transformation of DNA Nanostructures inside Living Cells. ChemPlusChem, 2022, 87, e202100519.	1.3	6
108	Construction of Branched DNAâ€based Nanostructures for Diagnosis, Therapeutics and Protein Engineering. Chemistry - an Asian Journal, 2022, 17, .	1.7	6

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109	DNA: From Carrier of Genetic Information to Polymeric Materials. Transactions of Tianjin University, 2019, 25, 301-311.	3.3	5
110	Target-Triggered Polymerization of Branched DNA Enables Enzyme-free and Fast Discrimination of Single-Base Changes. IScience, 2019, 21, 228-240.	1.9	5
111	Preparation of biomimetic gene hydrogel via polymerase chain reaction for cell-free protein expression. Science China Chemistry, 2020, 63, 99-106.	4.2	5
112	Molecular design, synthesis and applications of DNA hydrogel. Chinese Science Bulletin, 2014, 59, 107-115.	0.4	5
113	Material Removal Mechanism of Green Machining on Powder Metallurgy Parts during Orthogonal Cutting. Advances in Materials Science and Engineering, 2020, 2020, 1-9.	1.0	4
114	pH-Responsive Reversible DNA Self-assembly Mediated by Zwitterion. Chemical Research in Chinese Universities, 2020, 36, 285-290.	1.3	4
115	Lanthanide-DNA supramolecular hydrogels with tunable and responsive luminescence. Science China Technological Sciences, 2022, 65, 1043-1051.	2.0	4
116	Cell lysates and egg white create homeostatic microenvironment for gene expression in cell-free system. Synthetic and Systems Biotechnology, 2018, 3, 211-216.	1.8	3
117	A Programmable Hybrid DNA Nanogel for Enhanced Photodynamic Therapy of Hypoxic Glioma. Transactions of Tianjin University, 2020, 26, 450-457.	3.3	3
118	A Protonâ€Activatable DNAâ€Based Nanosystem Enables Coâ€Delivery of CRISPR/Cas9 and DNAzyme for Combined Gene Therapy. Angewandte Chemie, 2022, 134, e202116569.	1.6	3
119	A Weighted EFOR Algorithm for Dynamic Parametrical Model Identification of the Nonlinear System. Processes, 2021, 9, 2113.	1.3	2
120	Tannic acid/clay hydrogel with time-dependent mechanical and adhesive performance enabled by molecular interaction evolution. Polymer, 2021, 235, 124261.	1.8	1
121	Microfluidic construction of nucleus-like architecture. Chemical Engineering Journal, 2022, 431, 133997.	6.6	1
122	Frequency Sweep Modeling Method for the Rotor-Bearing System in Time Domain Based on Data-Driven Model. Processes, 2022, 10, 679.	1.3	1
123	Editorial: Engineering Nucleic Acids-Based Functional Nanomaterials, Nanodrugs, and Biosensors. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	1
124	A fast, high throughput, and low-cost microfluidic bioassays for detecting HIV. , 2008, , .		0
125	Macromol. Rapid Commun. 18/2009. Macromolecular Rapid Communications, 2009, 30, NA-NA.	2.0	0
126	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.	1.1	0

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127	Frontispiece: Programmable DNA Nanoflowers for Biosensing, Bioimaging, and Therapeutics. Chemistry - A European Journal, 2020, 26, .	1.7	0
128	Aptamer-Based DNA Materials for the Separation and Analysis of Biological Particles. Transactions of Tianjin University, 2021, 27, 450.	3.3	0
129	Supramolecular selfâ€assembled DNA nanosystem for synergistic chemical and gene regulations on cancer cells. Angewandte Chemie, 0, , .	1.6	0
130	<italic>In vitro</italic> synthetic biology: Cell-free protein synthesis. Chinese Science Bulletin, 2017, 62, 3851-3860.	0.4	0