

Dan Luo

List of Publications by Year in descending order

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Version: 2024-02-01

107
papers

11,322
citations

44042

48
h-index

33869

99
g-index

109
all docs

109
docs citations

109
times ranked

12189
citing authors

#	ARTICLE	IF	CITATIONS
1	Putting DNA to Work as Generic Polymeric Materials. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	17
2	A multiplexed circulating tumor DNA detection platform engineered from 3D-coded interlocked DNA rings. <i>Bioactive Materials</i> , 2022, 10, 68-78.	8.6	7
3	Interfacing DNA hydrogels with ceramics for biofunctional architectural materials. <i>Materials Today</i> , 2022, 53, 98-105.	8.3	7
4	A dynamic DNA nanosponge for triggered amplification of gene-photodynamic modulation. <i>Chemical Science</i> , 2022, 13, 5155-5163.	3.7	12
5	Protein-Encoded Free-Standing RNA Hydrogel for Sub-Compartmentalized Translation. <i>Advanced Materials</i> , 2022, 34, e2110424.	11.1	11
6	Protein-Encoded Free-Standing RNA Hydrogel for Sub-Compartmentalized Translation (<i>Adv. Mater.</i>) Tj ETQq0,0,0 rgBT /Overlock 1	11.1	0
7	Programming a DNA tetrahedral nanomachine as an integrative tool for intracellular microRNA biosensing and stimulus-unlocked target regulation. <i>Materials Today Bio</i> , 2022, 15, 100276.	2.6	8
8	Nesfatin-1 Promotes Proliferation, Migration and Invasion of HTR-8/SVneo Trophoblast Cells and Inhibits Oxidative Stress via Activation of PI3K/AKT/mTOR and AKT/GSK3 β Pathway. <i>Reproductive Sciences</i> , 2021, 28, 550-561.	1.1	12
9	Construction of Smart Stimuli-Responsive DNA Nanostructures for Biomedical Applications. <i>Chemistry - A European Journal</i> , 2021, 27, 3929-3943.	1.7	19
10	Frontispiece: Construction of Smart Stimuli-Responsive DNA Nanostructures for Biomedical Applications. <i>Chemistry - A European Journal</i> , 2021, 27, .	1.7	1
11	In silico nanosafety assessment tools and their ecosystem-level integration prospect. <i>Nanoscale</i> , 2021, 13, 8722-8739.	2.8	11
12	<i>Ralstonia mannitolilytica</i> sepsis after elective cesarean delivery: a case report. <i>BMC Pregnancy and Childbirth</i> , 2021, 21, 737.	0.9	4
13	Multiplexed Imaging with Coordination Nanoparticles for Cancer Diagnosis and Therapy. <i>ACS Applied Bio Materials</i> , 2020, 3, 713-720.	2.3	10
14	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.	6.6	137
15	A CRISPR Path to Cutting-Edge Materials. <i>New England Journal of Medicine</i> , 2020, 382, 85-88.	13.9	11
16	Micro/Nano Technology for Next-Generation Diagnostics. <i>Small Methods</i> , 2020, 4, 1900506.	4.6	25
17	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.	7.2	104
18	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.	1.6	15

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19	DNA Functional Materials Assembled from Branched DNA: Design, Synthesis, and Applications. <i>Chemical Reviews</i> , 2020, 120, 9420-9481.	23.0	313
20	The prevalence and associated factors of metabolic syndrome in Chinese aging population. <i>Scientific Reports</i> , 2020, 10, 20034.	1.6	24
21	Self-assembly of stem cell membrane-camouflaged nanocomplex for microRNA-mediated repair of myocardial infarction injury. <i>Biomaterials</i> , 2020, 257, 120256.	5.7	60
22	Construction of Organelle-Like Architecture by Dynamic DNA Assembly in Living Cells. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20651-20658.	7.2	57
23	Construction of Organelle-Like Architecture by Dynamic DNA Assembly in Living Cells. <i>Angewandte Chemie</i> , 2020, 132, 20832-20839.	1.6	7
24	DNA-based engineering system for improving human and environmental health: Identification, detection, and treatment. <i>Nano Today</i> , 2020, 35, 100958.	6.2	15
25	Enzyme-based fabrication of physical DNA hydrogels: new materials and applications. <i>Polymer Journal</i> , 2020, 52, 891-898.	1.3	11
26	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.	6.6	66
27	Three-dimensional DNA tweezers serve as modular DNA intelligent machines for detection and regulation of intracellular microRNA. <i>Science Advances</i> , 2020, 6, eabb0695.	4.7	41
28	Serum homocysteine and folate concentrations in early pregnancy and subsequent events of adverse pregnancy outcome: the Sichuan Homocysteine study. <i>BMC Pregnancy and Childbirth</i> , 2020, 20, 176.	0.9	21
29	A PEGDA/DNA Hybrid Hydrogel for Cell-Free Protein Synthesis. <i>Frontiers in Chemistry</i> , 2020, 8, 28.	1.8	26
30	Dysregulation of BDNF/TrkB signaling mediated by NMDAR/Ca ²⁺ /calpain might contribute to postoperative cognitive dysfunction in aging mice. <i>Journal of Neuroinflammation</i> , 2020, 17, 23.	3.1	125
31	An ultraportable and versatile point-of-care DNA testing platform. <i>Science Advances</i> , 2020, 6, eaaz7445.	4.7	71
32	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.	5.6	35
33	Nanobarcoding: Topological Transformation-Based Nanobarcoding for Detection and Enumeration of MicroRNAs and Single Nucleotide Polymorphism (<i>Adv. Biosys.</i> 7/2019). <i>Advanced Biology</i> , 2019, 3, 1970072.	3.0	0
34	Target-Triggered Polymerization of Branched DNA Enables Enzyme-free and Fast Discrimination of Single-Base Changes. <i>IScience</i> , 2019, 21, 228-240.	1.9	5
35	Polymeric DNA hydrogel: Design, synthesis and applications. <i>Progress in Polymer Science</i> , 2019, 98, 101163.	11.8	189
36	Revealing the Presence of a Symbolic Sequence Representing Multiple Nucleotides Based on K-Means Clustering of Oligonucleotides. <i>Molecules</i> , 2019, 24, 348.	1.7	1

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37	Topological Transformation-Based Nanobarcoding for Detection and Enumeration of MicroRNAs and Single Nucleotide Polymorphism. <i>Advanced Biology</i> , 2019, 3, e1900013.	3.0	3
38	A fixed cytometer chip for identification of cell populations and real-time monitoring of single-cell apoptosis under gradient UV radiation. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	1.0	1
39	Dynamic DNA material with emergent locomotion behavior powered by artificial metabolism. <i>Science Robotics</i> , 2019, 4, .	9.9	52
40	Nucleic Acid-Based Functional Nanomaterials as Advanced Cancer Therapeutics. <i>Small</i> , 2019, 15, e1900172.	5.2	80
41	Lead exposure inhibits expression of SV2C through NRSF. <i>Toxicology</i> , 2018, 398-399, 23-30.	2.0	5
42	A DNA Tracer System for Hydrological Environment Investigations. <i>Environmental Science & Technology</i> , 2018, 52, 1695-1703.	4.6	40
43	A Fluorescent Biofunctional DNA Hydrogel Prepared by Enzymatic Polymerization. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700998.	3.9	65
44	Designing a retrievable and scalable cell encapsulation device for potential treatment of type 1 diabetes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E263-E272.	3.3	137
45	Synthesis of Cationic Amphiphilic Surface-Block Polyester Dendrimers. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 383-398.	1.9	1
46	PolyBrick 3.0: live signatures through DNA hydrogels and digital ceramics. <i>International Journal of Rapid Manufacturing</i> , 2018, 7, 203.	0.5	5
47	Polymeric Nanocomplex Encapsulating Iron Oxide Nanoparticles in Constant Size for Controllable Magnetic Field Reactivity. <i>Langmuir</i> , 2018, 34, 12827-12833.	1.6	11
48	Assembly Dynamics of Plasmonic DNA-Capped Gold Nanoparticle Monolayers. <i>Langmuir</i> , 2018, 34, 14711-14720.	1.6	2
49	Microfluidic-Assisted Fabrication of Clay Microgels for Cell-Free Protein Synthesis. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29308-29313.	4.0	41
50	Maternal exposure to perfluorooctanoic acid inhibits luteal function via oxidative stress and apoptosis in pregnant mice. <i>Reproductive Toxicology</i> , 2017, 69, 159-166.	1.3	50
51	Bioresponsive DNA Hydrogels: Beyond the Conventional Stimuli Responsiveness. <i>Accounts of Chemical Research</i> , 2017, 50, 733-739.	7.6	186
52	Pollen magnetofection for genetic modification with magnetic nanoparticles as gene carriers. <i>Nature Plants</i> , 2017, 3, 956-964.	4.7	262
53	Non-invasive detection of gastric cancer relevant amino acids with luminescent DNA/silver nanoclusters. <i>Nanoscale</i> , 2017, 9, 19367-19373.	2.8	60
54	Reduced expression of follicle stimulating hormone receptor mRNA and protein in pregnancies complicated by pre-eclampsia. <i>Molecular Medicine Reports</i> , 2017, 16, 367-372.	1.1	2

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55	Nox-2-Mediated Phenotype Loss of Hippocampal Parvalbumin Interneurons Might Contribute to Postoperative Cognitive Decline in Aging Mice. <i>Frontiers in Aging Neuroscience</i> , 2016, 8, 234.	1.7	49
56	DNA Microgels as a Platform for Cell-Free Protein Expression and Display. <i>Biomacromolecules</i> , 2016, 17, 2019-2026.	2.6	52
57	Mass production of shaped particles through vortex ring freezing. <i>Nature Communications</i> , 2016, 7, 12401.	5.8	55
58	Developing robust, hydrogel-based, nanofiber-enabled encapsulation devices (NEEDs) for cell therapies. <i>Biomaterials</i> , 2015, 37, 40-48.	5.7	81
59	Tâ€B-cell entanglement and ICOSL-driven feed-forward regulation of germinal centre reaction. <i>Nature</i> , 2015, 517, 214-218.	13.7	333
60	DNA-bonded 'atoms'. <i>Nature Materials</i> , 2014, 13, 121-122.	13.3	7
61	DNA Materials: Bridging Nanotechnology and Biotechnology. <i>Accounts of Chemical Research</i> , 2014, 47, 1902-1911.	7.6	228
62	Crystallization of DNAâ€Capped Gold Nanoparticles in Highâ€Concentration, Divalent Salt Environments. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1316-1319.	7.2	46
63	A Universal DNA-Based Protein Detection System. <i>Journal of the American Chemical Society</i> , 2013, 135, 14008-14011.	6.6	35
64	Enhanced transcription and translation in clay hydrogel and implications for early life evolution. <i>Scientific Reports</i> , 2013, 3, 3165.	1.6	86
65	Thermostable Branched DNA Nanostructures as Modular Primers for Polymerase Chain Reaction. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8699-8702.	7.2	75
66	Gravity and Surface Tension Effects on the Shape Change of Soft Materials. <i>Langmuir</i> , 2013, 29, 8665-8674.	1.6	44
67	Cell-Free Protein Expression from DNA-Based Hydrogel (P-Gel) Droplets for Scale-Up Production. <i>Industrial Biotechnology</i> , 2012, 8, 372-377.	0.5	12
68	A mechanical metamaterial made from a DNA hydrogel. <i>Nature Nanotechnology</i> , 2012, 7, 816-820.	15.6	484
69	From cells to DNA materials. <i>Materials Today</i> , 2012, 15, 190-194.	8.3	36
70	Probing Y-shaped DNA structure with time-resolved FRET. <i>Nanoscale</i> , 2012, 4, 1568.	2.8	32
71	Femtomolar sensitivity DNA photonic crystal nanowire array ultrasonic mass sensor. , 2012, , .		3
72	Adaptive DNA-based materials for switching, sensing, and logic devices. <i>Journal of Materials Chemistry</i> , 2011, 21, 6113.	6.7	26

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73	Crystalline Gibbs Monolayers of DNA-Capped Nanoparticles at the Air-Liquid Interface. ACS Nano, 2011, 5, 7978-7985.	7.3	53
74	Engineering DNA-based functional materials. Chemical Society Reviews, 2011, 40, 5730.	18.7	263
75	Building plasmonic nanostructures with DNA. Nature Nanotechnology, 2011, 6, 268-276.	15.6	736
76	DNAsomes: Multifunctional DNA-Based Nanocarriers. Small, 2011, 7, 74-78.	5.2	71
77	Biodegradable CpG DNA hydrogels for sustained delivery of doxorubicin and immunostimulatory signals in tumor-bearing mice. Biomaterials, 2011, 32, 488-494.	5.7	186
78	From biology to materials: engineering DNA and RNA for drug delivery and nanomedicine. Advanced Drug Delivery Reviews, 2010, 62, 591.	6.6	6
79	DNA nanomedicine: Engineering DNA as a polymer for therapeutic and diagnostic applications. Advanced Drug Delivery Reviews, 2010, 62, 606-616.	6.6	88
80	Probing in Real Time the Soft Crystallization of DNA-Capped Nanoparticles. Angewandte Chemie - International Edition, 2010, 49, 380-384.	7.2	71
81	Photocrosslinked DNA Nanospheres for Drug Delivery. Macromolecular Rapid Communications, 2010, 31, 1207-1211.	2.0	30
82	Novel DNA materials and their applications. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2010, 2, 648-669.	3.3	79
83	DNA-based nanostructures for molecular sensing. Nanoscale, 2010, 2, 188-197.	2.8	56
84	A cell-free protein-producing gel. Nature Materials, 2009, 8, 432-437.	13.3	287
85	Free-standing nanoparticle superlattice sheets controlled by DNA. Nature Materials, 2009, 8, 519-525.	13.3	372
86	Multifunctional nanoarchitectures from DNA-based ABC monomers. Nature Nanotechnology, 2009, 4, 430-436.	15.6	164
87	High-yield cell-free protein production from P-gel. Nature Protocols, 2009, 4, 1759-1770.	5.5	58
88	The assembly of a short linear natural cytosine-phosphate-guanine DNA into dendritic structures and its effect on immunostimulatory activity. Biomaterials, 2009, 30, 5701-5706.	5.7	104
89	Rapid determination of δ^9 -Tetrahydrocannabinol in saliva by polymer monolith microextraction combined with gas chromatography-mass spectrometry. Talanta, 2009, 77, 1701-1706.	2.9	37
90	Humic acid-bonded silica as a novel sorbent for solid-phase extraction of benzo[a]pyrene in edible oils. Analytica Chimica Acta, 2007, 588, 261-267.	2.6	53

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91	A Dendrimer-Like DNA-Based Vector for DNA Delivery: A Viral and Nonviral Hybrid Approach. , 2006, 127, 115-126.		5
92	Enzyme-catalysed assembly of DNA hydrogel. Nature Materials, 2006, 5, 797-801.	13.3	713
93	Dendrimer-like DNA-based fluorescence nanobarcodes. Nature Protocols, 2006, 1, 995-1000.	5.5	80
94	DNA Hydrogels. Materials Research Society Symposia Proceedings, 2006, 950, 1.	0.1	0
95	Charge-Resversible lipids for DNA delivery. FASEB Journal, 2006, 20, A73.	0.2	0
96	Non-viral Charge Reversal Vectors for pDNA Delivery. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
97	Multiplexed detection of pathogen DNA with DNA-based fluorescence nanobarcodes. Nature Biotechnology, 2005, 23, 885-889.	9.4	467
98	Diffusion of Single Star-Branched Dendrimer-like DNA. Journal of Physical Chemistry B, 2005, 109, 9839-9842.	1.2	32
99	Controlled assembly of dendrimer-like DNA. Nature Materials, 2004, 3, 38-42.	13.3	428
100	A new solution for improving gene delivery. Trends in Biotechnology, 2004, 22, 101-103.	4.9	58
101	The road from biology to materials. Materials Today, 2003, 6, 38-43.	8.3	78
102	Poly(ethylene glycol)-Conjugated PAMAM Dendrimer for Biocompatible, High-Efficiency DNA Delivery. Macromolecules, 2002, 35, 3456-3462.	2.2	388
103	Synthetic DNA delivery systems. Nature Biotechnology, 2000, 18, 33-37.	9.4	1,494
104	Enhancement of transfection by physical concentration of DNA at the cell surface. Nature Biotechnology, 2000, 18, 893-895.	9.4	532
105	Controlled DNA delivery systems. Pharmaceutical Research, 1999, 16, 1300-1308.	1.7	144
106	Nucleic Acid Engineering. , 0, , 549-575.		0
107	Putting DNA to Work as Generic Polymeric Materials. Angewandte Chemie, 0, , .	1.6	6