Jong Bum Lee

List of Publications by Year
in descending order

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52 papers	2,795 citations	331259 21 h-index	182168 51 g-index
55 all docs	55 docs citations	55 times ranked	3296 citing authors

#	Article	IF	Citations
1	Enzyme-catalysed assembly of DNA hydrogel. Nature Materials, 2006, 5, 797-801.	13.3	713
2	A mechanical metamaterial made from a DNA hydrogel. Nature Nanotechnology, 2012, 7, 816-820.	15.6	484
3	Self-assembled RNA interference microsponges for efficient siRNA delivery. Nature Materials, 2012, 11, 316-322.	13.3	424
4	Engineering DNA-based functional materials. Chemical Society Reviews, 2011, 40, 5730.	18.7	263
5	Layer-by-Layer Assembled Antisense DNA Microsponge Particles for Efficient Delivery of Cancer Therapeutics. ACS Nano, 2014, 8, 9767-9780.	7.3	107
6	Self-assembly of free-standing RNA membranes. Nature Communications, 2014, 5, 4367.	5.8	60
7	DNA-based nanostructures for molecular sensing. Nanoscale, 2010, 2, 188-197.	2.8	56
8	Self-assembled Messenger RNA Nanoparticles (mRNA-NPs) for Efficient Gene Expression. Scientific Reports, 2015, 5, 12737.	1.6	40
9	Controlled release of an anti-cancer drug from DNA structured nano-films. Scientific Reports, 2014, 4, 4078.	1.6	40
10	Poly-sgRNA/siRNA ribonucleoprotein nanoparticles for targeted gene disruption. Journal of Controlled Release, 2017, 250, 27-35.	4.8	38
11	Therapeutic effects of a novel siRNA-based anti-VEGF (siVEGF) nanoball for the treatment of choroidal neovascularization. Nanoscale, 2017, 9, 15461-15469.	2.8	35
12	Enzymatic size control of RNA particles using complementary rolling circle transcription (cRCT) method for efficient siRNA production. Chemical Communications, 2014, 50, 11665-11667.	2.2	33
13	Enzymeâ€Driven Hasselbackâ€Like DNAâ€Based Inorganic Superstructures. Advanced Functional Materials, 2017, 27, 1704213.	7.8	33
14	Nucleic Acid Engineering: RNA Following the Trail of DNA. ACS Combinatorial Science, 2016, 18, 87-99.	3.8	30
15	Technological development of structural DNA/RNA-based RNAi systems and their applications. Advanced Drug Delivery Reviews, 2016, 104, 29-43.	6.6	30
16	Double Controlled Release of Therapeutic RNA Modules through Injectable DNAâ€“RNA Hybrid Hydrogel. ACS Applied Materials & Interfaces, 2020, 12, 55554-55563.	4.0	29
17	Synthesis of a multi-functional DNA nanosphere barcode system for direct cell detection. Nanoscale, 2017, 9, 14094-14102.	2.8	28
18	Engineered extracellular vesicles and their mimetics for clinical translation. Methods, 2020, 177, 80-94.	1.9	26

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19	A biomaterial approach to cell reprogramming and differentiation. Journal of Materials Chemistry B, 2017, 5, 2375-2389.	2.9	25
20	Self-assembled DNA-Guided RNA Nanovector via Step-wise Dual Enzyme Polymerization (SDEP) for Carrier-free siRNA Delivery. ACS Biomaterials Science and Engineering, 2016, 2, 616-624.	2.6	24
21	Bubbled RNAâ€Based Cargo for Boosting RNA Interference. Advanced Science, 2017, 4, 1600523.	5.6	24
22	CpG incorporated DNA microparticles for elevated immune stimulation for antigen presenting cells. RSC Advances, 2018, 8, 6608-6615.	1.7	19
23	Focused ultrasound-triggered chemo-gene therapy with multifunctional nanocomplex for enhancing therapeutic efficacy. Journal of Controlled Release, 2020, 322, 346-356.	4.8	19
24	Generation of siRNA Nanosheets for Efficient RNA Interference. Scientific Reports, 2016, 6, 25146.	1.6	17
25	Library siRNA-generating RNA nanosponges for gene silencing by complementary rolling circle transcription. Scientific Reports, 2017, 7, 10005.	1.6	17
26	Astrocyte-derived extracellular vesicles enhance the survival and electrophysiological function of human cortical neurons in vitro. Biomaterials, 2021, 271, 120700.	5.7	17
27	Threeâ€Dimensional Structure and Thermal Stability Studies of DNA Nanostructures by Energy Transfer Spectroscopy. ChemPhysChem, 2010, 11, 2081-2084.	1.0	16
28	Universally applicable RNA membrane-based microneedle system for transdermal drug delivery. Materials Horizons, 2020, 7, 1317-1326.	6.4	14
29	Rapid Diagnosis of Coronavirus by RNA-Directed RNA Transcription Using an Engineered RNA-based Platform. Nano Letters, 2021, 21, 462-468.	4.5	13
30	Sustained Release of Minor-Groove-Binding Antibiotic Netropsin from Calcium-Coated Groove-Rich DNA Particles. Pharmaceutics, 2019, 11, 387.	2.0	11
31	BRC-mediated RNAi targeting of USE1 inhibits tumor growth in vitro and in vivo. Biomaterials, 2020, 230, 119630.	5.7	11
32	DNA hydrogel microspheres and their potential applications for protein delivery and live cell monitoring. Biomicrofluidics, 2016, 10, 034112.	1.2	10
33	RCA-Based Biosensor for Electrical and Colorimetric Detection of Pathogen DNA. Nanoscale Research Letters, 2016, 11, 242.	3.1	10
34	DNA aptamer-based carrier for loading proteins and enhancing the enzymatic activity. RSC Advances, 2017, 7, 1643-1645.	1.7	10
35	Size-Controllable Enzymatic Synthesis of Short Hairpin RNA Nanoparticles by Controlling the Rate of RNA Polymerization. Polymers, 2018, 10, 589.	2.0	8
36	Immunostimulatory Effects Triggered by Selfâ€Assembled Microspheres with Tandem Repeats of Polymerized RNA Strands. Advanced Healthcare Materials, 2019, 8, e1801395.	3.9	7

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37	Selective release of DNA nanostructures from DNA hydrogel. Journal of Industrial and Engineering Chemistry, 2020, 84, 46-51.	2.9	7
38	Giant Catalytic DNA Particles for Simple and Intuitive Detection of Pb2+. Nanoscale Research Letters, 2016, 11, 244.	3.1	6
39	Enzymatically Produced miR34a Nanoparticles for Enhanced Antiproliferation Activity. Advanced Biology, 2018, 2, 1700158.	3.0	6
40	Enzymatic Polymerization on DNA Modified Gold Nanowire for Label-Free Detection of Pathogen DNA. International Journal of Molecular Sciences, 2015, 16, 13653-13660.	1.8	5
41	DNA Optoelectronics: Versatile Systems for On-Demand Functional Electrochemical Applications. ACS Nano, 2022, 16, 241-250.	7.3	5
42	RNA polymerization actuating nucleic acid membrane (RANAM)-based biosensing for universal RNA virus detection. Biosensors and Bioelectronics, 2022, 199, 113880.	5.3	5
43	Self-assembled DNA hollow spheres from microsponges. Biofabrication, 2019, 11, 025016.	3.7	3
44	Viscosity-Regulated Control of RNA Microstructure Fabrication. Polymers, 2021, 13, 454.	2.0	3
45	Construction of a two-dimensional DNAâ€“RNA hybridized membrane for collecting tumor-derived exosomes. Chemical Communications, 2021, 58, 266-269.	2.2	3
46	Multimeric RNAs for efficient RNA-based therapeutics and vaccines. Journal of Controlled Release, 2022, 345, 770-785.	4.8	3
47	Investigation of FÃ¶rster Resonance Energy Transfer (FRET) and Competition of Fluorescent Dyes on DNA Microparticles. International Journal of Molecular Sciences, 2015, 16, 7738-7747.	1.8	2
48	An enzymatically self-assembled DNA patch for enhanced blood coagulation. Chemical Communications, 2020, 56, 5917-5920.	2.2	2
49	Enhancing Systemic Delivery of Enzymatically Generated RNAi Nanocomplexes for Cancer Therapy. Advanced Therapeutics, 2019, 2, 1900014.	1.6	1
50	DNA microsponge-templated growth of metal nanoparticles for signal-enhanced colorimetric detection. Applied Surface Science, 2021, 569, 151028.	3.1	1
51	Control of Nanoparticles on Branched DNA Nanostructures. Journal of Biomedical Nanotechnology, 2013, 9, 1245-1249.	0.5	0
52	Stability of DNA Nanostructures by Junction Penalty. Journal of Biomedical Nanotechnology, 2013, 9, 644-648.	0.5	0