

# Jong Bum Lee

## List of Publications by Year in descending order

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Version: 2024-02-01

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	DNA Optoelectronics: Versatile Systems for On-Demand Functional Electrochemical Applications. ACS Nano, 2022, 16, 241-250.	7.3	5
2	RNA polymerization actuating nucleic acid membrane (RANAM)-based biosensing for universal RNA virus detection. Biosensors and Bioelectronics, 2022, 199, 113880.	5.3	5
3	Multimeric RNAs for efficient RNA-based therapeutics and vaccines. Journal of Controlled Release, 2022, 345, 770-785.	4.8	3
4	Viscosity-Regulated Control of RNA Microstructure Fabrication. Polymers, 2021, 13, 454.	2.0	3
5	Rapid Diagnosis of Coronavirus by RNA-Directed RNA Transcription Using an Engineered RNA-based Platform. Nano Letters, 2021, 21, 462-468.	4.5	13
6	Astrocyte-derived extracellular vesicles enhance the survival and electrophysiological function of human cortical neurons in vitro. Biomaterials, 2021, 271, 120700.	5.7	17
7	DNA microsphere-templated growth of metal nanoparticles for signal-enhanced colorimetric detection. Applied Surface Science, 2021, 569, 151028.	3.1	1
8	Construction of a two-dimensional DNA-RNA hybridized membrane for collecting tumor-derived exosomes. Chemical Communications, 2021, 58, 266-269.	2.2	3
9	Engineered extracellular vesicles and their mimetics for clinical translation. Methods, 2020, 177, 80-94.	1.9	26
10	BRC-mediated RNAi targeting of USE1 inhibits tumor growth in vitro and in vivo. Biomaterials, 2020, 230, 119630.	5.7	11
11	Universally applicable RNA membrane-based microneedle system for transdermal drug delivery. Materials Horizons, 2020, 7, 1317-1326.	6.4	14
12	Double Controlled Release of Therapeutic RNA Modules through Injectable DNA-RNA Hybrid Hydrogel. ACS Applied Materials & Interfaces, 2020, 12, 55554-55563.	4.0	29
13	Selective release of DNA nanostructures from DNA hydrogel. Journal of Industrial and Engineering Chemistry, 2020, 84, 46-51.	2.9	7
14	Focused ultrasound-triggered chemo-gene therapy with multifunctional nanocomplex for enhancing therapeutic efficacy. Journal of Controlled Release, 2020, 322, 346-356.	4.8	19
15	An enzymatically self-assembled DNA patch for enhanced blood coagulation. Chemical Communications, 2020, 56, 5917-5920.	2.2	2
16	Sustained Release of Minor-Groove-Binding Antibiotic Netropsin from Calcium-Coated Groove-Rich DNA Particles. Pharmaceutics, 2019, 11, 387.	2.0	11
17	Immunostimulatory Effects Triggered by Self-Assembled Microspheres with Tandem Repeats of Polymerized RNA Strands. Advanced Healthcare Materials, 2019, 8, e1801395.	3.9	7
18	Enhancing Systemic Delivery of Enzymatically Generated RNAi Nanocomplexes for Cancer Therapy. Advanced Therapeutics, 2019, 2, 1900014.	1.6	1

#	ARTICLE	IF	CITATIONS
19	Self-assembled DNA hollow spheres from microsponges. <i>Biofabrication</i> , 2019, 11, 025016.	3.7	3
20	CpG incorporated DNA microparticles for elevated immune stimulation for antigen presenting cells. <i>RSC Advances</i> , 2018, 8, 6608-6615.	1.7	19
21	Enzymatically Produced miR34a Nanoparticles for Enhanced Antiproliferation Activity. <i>Advanced Biology</i> , 2018, 2, 1700158.	3.0	6
22	Size-Controllable Enzymatic Synthesis of Short Hairpin RNA Nanoparticles by Controlling the Rate of RNA Polymerization. <i>Polymers</i> , 2018, 10, 589.	2.0	8
23	A biomaterial approach to cell reprogramming and differentiation. <i>Journal of Materials Chemistry B</i> , 2017, 5, 2375-2389.	2.9	25
24	Poly-sgRNA/siRNA ribonucleoprotein nanoparticles for targeted gene disruption. <i>Journal of Controlled Release</i> , 2017, 250, 27-35.	4.8	38
25	Bubbled RNA-Based Cargo for Boosting RNA Interference. <i>Advanced Science</i> , 2017, 4, 1600523.	5.6	24
26	DNA aptamer-based carrier for loading proteins and enhancing the enzymatic activity. <i>RSC Advances</i> , 2017, 7, 1643-1645.	1.7	10
27	Enzyme-Driven Hasselback-Like DNA-Based Inorganic Superstructures. <i>Advanced Functional Materials</i> , 2017, 27, 1704213.	7.8	33
28	Synthesis of a multi-functional DNA nanosphere barcode system for direct cell detection. <i>Nanoscale</i> , 2017, 9, 14094-14102.	2.8	28
29	Library siRNA-generating RNA microsponges for gene silencing by complementary rolling circle transcription. <i>Scientific Reports</i> , 2017, 7, 10005.	1.6	17
30	Therapeutic effects of a novel siRNA-based anti-VEGF (siVEGF) nanoball for the treatment of choroidal neovascularization. <i>Nanoscale</i> , 2017, 9, 15461-15469.	2.8	35
31	Generation of siRNA Nanosheets for Efficient RNA Interference. <i>Scientific Reports</i> , 2016, 6, 25146.	1.6	17
32	DNA hydrogel microspheres and their potential applications for protein delivery and live cell monitoring. <i>Biomicrofluidics</i> , 2016, 10, 034112.	1.2	10
33	RCA-Based Biosensor for Electrical and Colorimetric Detection of Pathogen DNA. <i>Nanoscale Research Letters</i> , 2016, 11, 242.	3.1	10
34	Giant Catalytic DNA Particles for Simple and Intuitive Detection of Pb <sup>2+</sup> . <i>Nanoscale Research Letters</i> , 2016, 11, 244.	3.1	6
35	Nucleic Acid Engineering: RNA Following the Trail of DNA. <i>ACS Combinatorial Science</i> , 2016, 18, 87-99.	3.8	30
36	Self-assembled DNA-Guided RNA Nanovector via Step-wise Dual Enzyme Polymerization (SDEP) for Carrier-free siRNA Delivery. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 616-624.	2.6	24

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37	Technological development of structural DNA/RNA-based RNAi systems and their applications. <i>Advanced Drug Delivery Reviews</i> , 2016, 104, 29-43.	6.6	30
38	Self-assembled Messenger RNA Nanoparticles (mRNA-NPs) for Efficient Gene Expression. <i>Scientific Reports</i> , 2015, 5, 12737.	1.6	40
39	Enzymatic Polymerization on DNA Modified Gold Nanowire for Label-Free Detection of Pathogen DNA. <i>International Journal of Molecular Sciences</i> , 2015, 16, 13653-13660.	1.8	5
40	Investigation of Förster Resonance Energy Transfer (FRET) and Competition of Fluorescent Dyes on DNA Microparticles. <i>International Journal of Molecular Sciences</i> , 2015, 16, 7738-7747.	1.8	2
41	Enzymatic size control of RNA particles using complementary rolling circle transcription (cRCT) method for efficient siRNA production. <i>Chemical Communications</i> , 2014, 50, 11665-11667.	2.2	33
42	Layer-by-Layer Assembled Antisense DNA Microsponge Particles for Efficient Delivery of Cancer Therapeutics. <i>ACS Nano</i> , 2014, 8, 9767-9780.	7.3	107
43	Self-assembly of free-standing RNA membranes. <i>Nature Communications</i> , 2014, 5, 4367.	5.8	60
44	Controlled release of an anti-cancer drug from DNA structured nano-films. <i>Scientific Reports</i> , 2014, 4, 4078.	1.6	40
45	Control of Nanoparticles on Branched DNA Nanostructures. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 1245-1249.	0.5	0
46	Stability of DNA Nanostructures by Junction Penalty. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 644-648.	0.5	0
47	A mechanical metamaterial made from a DNA hydrogel. <i>Nature Nanotechnology</i> , 2012, 7, 816-820.	15.6	484
48	Self-assembled RNA interference microsponges for efficient siRNA delivery. <i>Nature Materials</i> , 2012, 11, 316-322.	13.3	424
49	Engineering DNA-based functional materials. <i>Chemical Society Reviews</i> , 2011, 40, 5730.	18.7	263
50	Three-dimensional Structure and Thermal Stability Studies of DNA Nanostructures by Energy Transfer Spectroscopy. <i>ChemPhysChem</i> , 2010, 11, 2081-2084.	1.0	16
51	DNA-based nanostructures for molecular sensing. <i>Nanoscale</i> , 2010, 2, 188-197.	2.8	56
52	Enzyme-catalysed assembly of DNA hydrogel. <i>Nature Materials</i> , 2006, 5, 797-801.	13.3	713