

Mitsuru Naito

List of Publications by Year in descending order

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44
papers

1,669
citations

393982

19
h-index

288905

40
g-index

48
all docs

48
docs citations

48
times ranked

2310
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeting the Notch-regulated non-coding RNA TUG1 for glioma treatment. Nature Communications, 2016, 7, 13616.	5.8	267
2	A Phenylboronate-Functionalized Polyion Complex Micelle for ATP-Triggered Release of siRNA. Angewandte Chemie - International Edition, 2012, 51, 10751-10755.	7.2	200
3	Actively-targeted polyion complex micelles stabilized by cholesterol and disulfide cross-linking for systemic delivery of siRNA to solid tumors. Biomaterials, 2014, 35, 7887-7895.	5.7	113
4	Systemic Brain Delivery of Antisense Oligonucleotides across the Blood-Brain Barrier with a Glucose-Coated Polymeric Nanocarrier. Angewandte Chemie - International Edition, 2020, 59, 8173-8180.	7.2	113
5	Targeted systemic delivery of siRNA to cervical cancer model using cyclic RGD-installed unimer polyion complex-assembled gold nanoparticles. Journal of Controlled Release, 2016, 244, 247-256.	4.8	87
6	Glucose-linked sub-50-nm unimer polyion complex-assembled gold nanoparticles for targeted siRNA delivery to glucose transporter 1-overexpressing breast cancer stem-like cells. Journal of Controlled Release, 2019, 295, 268-277.	4.8	82
7	Polyplex Micelles with Phenylboronate/Gluconamide Cross-Linking in the Core Exerting Promoted Gene Transfection through Spatiotemporal Responsivity to Intracellular pH and ATP Concentration. Journal of the American Chemical Society, 2017, 139, 18567-18575.	6.6	71
8	Self-Assembly of siRNA/PEG-Cationomer at Integer Molar Ratio into 100 nm-Sized Vesicular Polyion Complexes (siRNAsomes) for RNAi and Codelivery of Cargo Macromolecules. Journal of the American Chemical Society, 2019, 141, 3699-3709.	6.6	54
9	Induced packaging of mRNA into polyplex micelles by regulated hybridization with a small number of cholesteryl RNA oligonucleotides directed enhanced in vivo transfection. Biomaterials, 2019, 197, 255-267.	5.7	50
10	siRNA-Loaded Polyion Complex Micelle Decorated with Charge-Conversional Polymer Tuned to Undergo Stepwise Response to Intra-Tumoral and Intra-Endosomal pHs for Exerting Enhanced RNAi Efficacy. Biomacromolecules, 2016, 17, 246-255.	2.6	48
11	Systemic delivery of siRNA by actively targeted polyion complex micelles for silencing the E6 and E7 human papillomavirus oncogenes. Journal of Controlled Release, 2016, 231, 29-37.	4.8	42
12	An Ethylenediamine-based Switch to Render the Polyzwitterion Cationic at Tumorous pH for Effective Tumor Accumulation of Coated Nanomaterials. Angewandte Chemie - International Edition, 2018, 57, 5057-5061.	7.2	42
13	Functionalization of silica nanoparticles for nucleic acid delivery. Nano Research, 2018, 11, 5219-5239.	5.8	41
14	Bundling mRNA Strands to Prepare Nano-Assemblies with Enhanced Stability Towards RNase for In Vivo Delivery. Angewandte Chemie - International Edition, 2019, 58, 11360-11363.	7.2	40
15	mRNA loading into ATP-responsive polyplex micelles with optimal density of phenylboronate ester crosslinking to balance robustness in the biological milieu and intracellular translational efficiency. Journal of Controlled Release, 2021, 330, 317-328.	4.8	37
16	Enhanced Intracellular Delivery of siRNA by Controlling ATP-Responsivity of Phenylboronic Acid-Functionalized Polyion Complex Micelles. Macromolecular Bioscience, 2018, 18, 1700357.	2.1	34
17	Tuned Density of Anti-Tissue Factor Antibody Fragment onto siRNA-Loaded Polyion Complex Micelles for Optimizing Targetability into Pancreatic Cancer Cells. Biomacromolecules, 2018, 19, 2320-2329.	2.6	34
18	Enhanced target recognition of nanoparticles by cocktail PEGylation with chains of varying lengths. Chemical Communications, 2016, 52, 1517-1519.	2.2	31

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19	Proliferation-associated long noncoding RNA, <i>TMPOAS1</i> , is a potential therapeutic target for triple-negative breast cancer. <i>Cancer Science</i> , 2020, 111, 2440-2450.	1.7	26
20	Cancer-Specific Targeting of Taurine-Upregulated Gene 1 Enhances the Effects of Chemotherapy in Pancreatic Cancer. <i>Cancer Research</i> , 2021, 81, 1654-1666.	0.4	22
21	Dually Stabilized Triblock Copolymer Micelles with Hydrophilic Shell and Hydrophobic Interlayer for Systemic Antisense Oligonucleotide Delivery to Solid Tumor. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 5770-5780.	2.6	21
22	Regulated protonation of polyaspartamide derivatives bearing repeated aminoethylene side chains for efficient intracellular siRNA delivery with minimal cytotoxicity. <i>Chemical Communications</i> , 2015, 51, 3158-3161.	2.2	19
23	Noncovalent Stabilization of Vesicular Polyion Complexes with Chemically Modified/Single-Stranded Oligonucleotides and PEG-guanidinylated Polypeptides for Intracavity Encapsulation of Effector Enzymes Aimed at Cooperative Gene Knockdown. <i>Biomacromolecules</i> , 2020, 21, 4365-4376.	2.6	17
24	Bridging mRNA and Polycation Using RNA Oligonucleotide Derivatives Improves the Robustness of Polyplex Micelles for Efficient mRNA Delivery. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102016.	3.9	17
25	Structural tuning of oligonucleotides for enhanced blood circulation properties of unit polyion complexes prepared from two-branched poly(ethylene glycol)-block-poly(L-lysine). <i>Journal of Controlled Release</i> , 2021, 330, 812-820.	4.8	15
26	Star-Polymer-DNA Gels Showing Highly Predictable and Tunable Mechanical Responses. <i>Advanced Materials</i> , 2022, 34, e2108818.	11.1	14
27	Tunable nonenzymatic degradability of <i>N</i> -substituted polyaspartamide main chain by amine protonation and alkyl spacer length in side chains for enhanced messenger RNA transfection efficiency. <i>Science and Technology of Advanced Materials</i> , 2019, 20, 105-115.	2.8	13
28	PEGylation of mRNA by Hybridization of Complementary PEG-RNA Oligonucleotides Stabilizes mRNA without Using Cationic Materials. <i>Pharmaceutics</i> , 2021, 13, 800.	2.0	11
29	Systemic Brain Delivery of Antisense Oligonucleotides across the Blood-Brain Barrier with a Glucose-Coated Polymeric Nanocarrier. <i>Angewandte Chemie</i> , 2020, 132, 8250-8257.	1.6	10
30	Fine-tuning of polyaspartamide derivatives with alicyclic moieties for systemic mRNA delivery. <i>Journal of Controlled Release</i> , 2022, 342, 148-156.	4.8	10
31	Polydopamine-Mediated Surface Functionalization of Exosomes. <i>ChemNanoMat</i> , 2021, 7, 592-595.	1.5	8
32	Experimental Comparison of Bond Lifetime and Viscoelastic Relaxation in Transient Networks with Well-Controlled Structures. <i>ACS Macro Letters</i> , 2022, 11, 753-759.	2.3	8
33	Bioinspired Silicification of mRNA-Loaded Polyion Complexes for Macrophage-Targeted mRNA Delivery. <i>ACS Applied Bio Materials</i> , 2021, 4, 7790-7799.	2.3	7
34	Block catiomer with flexible cationic segment enhances complexation with siRNA and the delivery performance in vitro. <i>Science and Technology of Advanced Materials</i> , 2021, 22, 850-863.	2.8	6
35	Size-tunable PEG-grafted copolymers as a polymeric nanoruler for passive targeting muscle tissues. <i>Journal of Controlled Release</i> , 2022, 347, 607-614.	4.8	6
36	Multilayered polyion complexes with dissolvable silica layer covered by controlling densities of cRGD-conjugated PEG chains for cancer-targeted siRNA delivery. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2017, 28, 1109-1123.	1.9	5

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37	An Ethylenediamine-based Switch to Render the Polyzwitterion Cationic at Tumorous pH for Effective Tumor Accumulation of Coated Nanomaterials. <i>Angewandte Chemie</i> , 2018, 130, 5151-5155.	1.6	5
38	Bundling mRNA Strands to Prepare Nanoassemblies with Enhanced Stability Towards RNase for In Vivo Delivery. <i>Angewandte Chemie</i> , 2019, 131, 11482-11485.	1.6	5
39	A 50 nm Sized Micellar Assembly of Thermoresponsive Polymer-Antisense Oligonucleotide Conjugates for Enhanced Gene Knockdown in Lung Cancer by Intratracheal Administration. <i>Advanced Therapeutics</i> , 2020, 3, 1900123.	1.6	5
40	Halofuginone micelle nanoparticles eradicate Nrf2-activated lung adenocarcinoma without systemic toxicity. <i>Free Radical Biology and Medicine</i> , 2022, 187, 92-104.	1.3	5
41	Installation of a Thermoswitchable Hydrophobic Domain into a Unimer Polyion Complex for Enhanced Cellular Uptake of siRNA. <i>Bioconjugate Chemistry</i> , 2020, 31, 1320-1326.	1.8	4
42	Dynamic Stabilization of Unit Polyion Complexes Incorporating Small Interfering RNA by Fine-Tuning of Cationic Block Length in Two-Branched Poly(ethylene glycol)- <i>b</i> -poly(<i>l</i> -lysine). <i>Biomacromolecules</i> , 2022, 23, 388-397.	2.6	3
43	Photo-reactive oligodeoxynucleotide-embedded nanovesicles (PROsomes) with switchable stability for efficient cellular uptake and gene knockdown. <i>Chemical Communications</i> , 2020, 56, 9477-9480.	2.2	2
44	Å¼cktitelbild: A Phenylboronate-Functionalized Polyion Complex Micelle for ATP-Triggered Release of siRNA (<i>Angew. Chem.</i> 43/2012). <i>Angewandte Chemie</i> , 2012, 124, 11062-11062.	1.6	0