

Hiroyasu Takemoto

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

1,392
citations

430442

18
h-index

329751

37
g-index

45
all docs

45
docs citations

45
times ranked

2172
citing authors

#	ARTICLE	IF	CITATIONS
1	Changeable net charge on nanoparticles facilitates intratumor accumulation and penetration. <i>Journal of Controlled Release</i> , 2022, 346, 392-404.	4.8	7
2	Potential urinary monitoring of the enhanced permeability and retention effect using MMP-2-responsive poly(ethylene glycol) derivatives. <i>Journal of Controlled Release</i> , 2021, 329, 513-523.	4.8	10
3	Iron chelation cancer therapy using hydrophilic block copolymers conjugated with deferoxamine. <i>Cancer Science</i> , 2021, 112, 410-421.	1.7	32
4	Fructose-functionalized polymers to enhance therapeutic potential of p-boronophenylalanine for neutron capture therapy. <i>Journal of Controlled Release</i> , 2021, 332, 184-193.	4.8	19
5	Systemically Applicable Glutamine-Functionalized Polymer Exerting Multivalent Interaction with Tumors Overexpressing ASCT2. <i>ACS Applied Bio Materials</i> , 2021, 4, 7402-7407.	2.3	4
6	Construction of nanomaterials based on pH-responsive polymers for effective tumor delivery. <i>Polymer Journal</i> , 2021, 53, 1353-1360.	1.3	2
7	Sequentially Self-Assembled Nanoreactor Comprising Tannic Acid and Phenylboronic Acid-Conjugated Polymers Inducing Tumor-Selective Enzymatic Activity. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54850-54859.	4.0	7
8	Sequential Self-Assembly Using Tannic Acid and Phenylboronic Acid-Modified Copolymers for Potential Protein Delivery. <i>Biomacromolecules</i> , 2020, 21, 3826-3835.	2.6	24
9	Photodynamic therapy using LCST polymers exerting pH-responsive isothermal phase transition. <i>Journal of Controlled Release</i> , 2020, 328, 608-616.	4.8	11
10	Polymeric modification of gemcitabine via cyclic acetal linkage for enhanced anticancer potency with negligible side effects. <i>Biomaterials</i> , 2020, 235, 119804.	5.7	16
11	Poly(vinyl alcohol) boosting therapeutic potential of <i>p</i> -boronophenylalanine in neutron capture therapy by modulating metabolism. <i>Science Advances</i> , 2020, 6, eaaz1722.	4.7	77
12	Poly(ethylene glycol)-poly(lysine) block copolymer-ubenimex conjugate targets aminopeptidase N and exerts an antitumor effect in hepatocellular carcinoma stem cells. <i>Oncogene</i> , 2019, 38, 244-260.	2.6	22
13	Pyruvate Responsiveness Based on α -Oxohydrazone Formation for Intracellular siRNA Release from Polyion Complex-Based Carriers. <i>Biomacromolecules</i> , 2019, 20, 2305-2314.	2.6	5
14	In vivo rendezvous of small nucleic acid drugs with charge-matched block cationomers to target cancers. <i>Nature Communications</i> , 2019, 10, 1894.	5.8	53
15	Poly(<i>N</i> -isopropylacrylamide)-Based Polymer-Inducing Isothermal Hydrophilic-to-Hydrophobic Phase Transition via Detachment of Hydrophilic Acid-Labile Moiety. <i>Biomacromolecules</i> , 2019, 20, 1493-1504.	2.6	9
16	An Ethylenediamine-based Switch to Render the Polyzwitterion Cationic at Tumorous pH for Effective Tumor Accumulation of Coated Nanomaterials. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5057-5061.	7.2	42
17	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
18	Effect of multiple cyclic RGD peptides on tumor accumulation and intratumoral distribution of IRDye 700DX-conjugated polymers. <i>Scientific Reports</i> , 2018, 8, 8126.	1.6	24

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19	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
20	A facile amino-functionalization of poly(2-oxazoline)sâ€™™ distal end through sequential azido end-capping and Staudinger reactions. <i>European Polymer Journal</i> , 2017, 88, 553-561.	2.6	17
21	Functional polymer-based siRNA delivery carrier that recognizes site-specific biosignals. <i>Journal of Controlled Release</i> , 2017, 267, 90-99.	4.8	13
22	Engineering Tumour Cell-Binding Synthetic Polymers with Sensing Dense Transporters Associated with Aberrant Glutamine Metabolism. <i>Scientific Reports</i> , 2017, 7, 6077.	1.6	14
23	Utility of the 2-â€™Nitrobenzenesulfonamide Group as a Chemical Linker for Enhanced Extracellular Stability and Cytosolic Cleavage in siRNAâ€™Conjugated Polymer Systems. <i>ChemMedChem</i> , 2017, 12, 19-22.	1.6	8
24	The 33 rd Annual Meeting of the Japan Society of Drug Delivery System. <i>Drug Delivery System</i> , 2017, 32, 348-349.	0.0	0
25	Macromol. Rapid Commun. 6/2016. <i>Macromolecular Rapid Communications</i> , 2016, 37, 560-560.	2.0	0
26	Targeted systemic delivery of siRNA to cervical cancer model using cyclic RGD-installed unimer polyion complex-assembled gold nanoparticles. <i>Journal of Controlled Release</i> , 2016, 244, 247-256.	4.8	87
27	Artificial Control of Gene Silencing Activity Based on siRNA Conjugation with Polymeric Molecule Having Coilâ€™Globule Transition Behavior. <i>Bioconjugate Chemistry</i> , 2016, 27, 1961-1964.	1.8	13
28	Influence of RNA Strand Rigidity on Polyion Complex Formation with Block Cationomers. <i>Macromolecular Rapid Communications</i> , 2016, 37, 486-493.	2.0	67
29	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. <i>Biomacromolecules</i> , 2016, 17, 246-255.	2.6	48
30	Precisely regulated nanoarchitecture comprised of gold nanotemplate and unimer polyion complex for systemic delivery of siRNA. <i>Journal of Controlled Release</i> , 2015, 213, e75-e76.	4.8	0
31	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
32	Fineâ€™Tuning of Chargeâ€™Conversion Polymer Structure for Efficient Endosomal Escape of siRNAâ€™Loaded Calcium Phosphate Hybrid Micelles. <i>Macromolecular Rapid Communications</i> , 2014, 35, 1211-1215.	2.0	44
33	Systemic siRNA delivery to a spontaneous pancreatic tumor model in transgenic mice by PEGylated calcium phosphate hybrid micelles. <i>Journal of Controlled Release</i> , 2014, 178, 18-24.	4.8	108
34	Bioresponsive Polymer-Based Nucleic Acid Carriers. <i>Advances in Genetics</i> , 2014, 88, 289-323.	0.8	18
35	Precise Engineering of siRNA Delivery Vehicles to Tumors Using Polyion Complexes and Gold Nanoparticles. <i>ACS Nano</i> , 2014, 8, 8979-8991.	7.3	126
36	<i>Polymeric Micelles</i> , 2014, , 1-7.		21

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37	Design of Functional Polymers for Intracellular Nucleic Acids Delivery. <i>Fundamental Biomedical Technologies</i> , 2014, , 207-217.	0.2	2
38	Fine-Tuning of Repeating Aminoethylene Units in Poly(aspartamide) Side Chains for Enhanced siRNA Delivery. <i>ACS Symposium Series</i> , 2013, , 189-196.	0.5	5
39	Acidic pH-Responsive siRNA Conjugate for Reversible Carrier Stability and Accelerated Endosomal Escape with Reduced IFN γ -Associated Immune Response. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6218-6221.	7.2	103
40	Smart Multilayered Assembly for Biocompatible siRNA Delivery Featuring Dissolvable Silica, Endosome-Disrupting Polycation, and Detachable PEG. <i>ACS Nano</i> , 2012, 6, 6693-6705.	7.3	92
41	Accelerated Polymer-Polymer Click Conjugation by Freeze-Thaw Treatment. <i>Bioconjugate Chemistry</i> , 2012, 23, 1503-1506.	1.8	36
42	Enhanced transfection with silica-coated polyplexes loading plasmid DNA. <i>Biomaterials</i> , 2010, 31, 4764-4770.	5.7	29
43	Polyion complex stability and gene silencing efficiency with a siRNA-grafted polymer delivery system. <i>Biomaterials</i> , 2010, 31, 8097-8105.	5.7	122