Hiroyasu Takemoto

List of Publications by Year in descending order

43 papers	1,392 citations	430874 18 h-index	330143 37 g-index
45 all docs	45 docs citations	45 times ranked	2172 citing authors

#	Article	IF	Citations
1	Precise Engineering of siRNA Delivery Vehicles to Tumors Using Polyion Complexes and Gold Nanoparticles. ACS Nano, 2014, 8, 8979-8991.	14.6	126
2	Polyion complex stability and gene silencing efficiency with a siRNA-grafted polymer delivery system. Biomaterials, 2010, 31, 8097-8105.	11.4	122
3	Systemic siRNA delivery to a spontaneous pancreatic tumor model in transgenic mice by PEGylated calcium phosphate hybrid micelles. Journal of Controlled Release, 2014, 178, 18-24.	9.9	108
4	Acidic pHâ€Responsive siRNA Conjugate for Reversible Carrier Stability and Accelerated Endosomal Escape with Reduced IFNÎ±â€Associated Immune Response. Angewandte Chemie - International Edition, 2013, 52, 6218-6221.	13.8	103
5	Smart Multilayered Assembly for Biocompatible siRNA Delivery Featuring Dissolvable Silica, Endosome-Disrupting Polycation, and Detachable PEG. ACS Nano, 2012, 6, 6693-6705.	14.6	92
6	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.	9.9	87
7	Poly(vinyl alcohol) boosting therapeutic potential of p -boronophenylalanine in neutron capture therapy by modulating metabolism. Science Advances, 2020, 6, eaaz1722.	10.3	77
8	Influence of RNA Strand Rigidity on Polyion Complex Formation with Block Catiomers. Macromolecular Rapid Communications, 2016, 37, 486-493.	3.9	67
9	In vivo rendezvous of small nucleic acid drugs with charge-matched block catiomers to target cancers. Nature Communications, 2019, 10, 1894.	12.8	53
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.	5.4	48
11	Fineâ€Tuning of Chargeâ€Conversion Polymer Structure for Efficient Endosomal Escape of siRNAâ€Loaded Calcium Phosphate Hybrid Micelles. Macromolecular Rapid Communications, 2014, 35, 1211-1215.	3.9	44
12	An Ethylenediamineâ€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.	13.8	42
13	Accelerated Polymerâ€“Polymer Click Conjugation by Freezeâ€“Thaw Treatment. Bioconjugate Chemistry, 2012, 23, 1503-1506.	3.6	36
14	Iron chelation cancer therapy using hydrophilic block copolymers conjugated with deferoxamine. Cancer Science, 2021, 112, 410-421.	3.9	32
15	Enhanced transfection with silica-coated polyplexes loading plasmid DNA. Biomaterials, 2010, 31, 4764-4770.	11.4	29
16	Effect of multiple cyclic RGD peptides on tumor accumulation and intratumoral distribution of IRDye 700DX-conjugated polymers. Scientific Reports, 2018, 8, 8126.	3.3	24
17	Sequential Self-Assembly Using Tannic Acid and Phenylboronic Acid-Modified Copolymers for Potential Protein Delivery. Biomacromolecules, 2020, 21, 3826-3835.	5.4	24
18	Poly(ethylene glycol)â€“poly(lysine) block copolymerâ€“ubenimex conjugate targets aminopeptidase N and exerts an antitumor effect in hepatocellular carcinoma stem cells. Oncogene, 2019, 38, 244-260.	5.9	22

#	Article	IF	Citations
19	Polymeric Micelles. , 2014, , 1-7.		21
20	Regulated protonation of polyaspartamide derivatives bearing repeated aminoethylene side chains for efficient intracellular siRNA delivery with minimal cytotoxicity. Chemical Communications, 2015, 51, 3158-3161.	4.1	19
21	Fructose-functionalized polymers to enhance therapeutic potential of p-boronophenylalanine for neutron capture therapy. Journal of Controlled Release, 2021, 332, 184-193.	9.9	19
22	Bioresponsive Polymer-Based Nucleic Acid Carriers. Advances in Genetics, 2014, 88, 289-323.	1.8	18
23	A facile amino-functionalization of poly(2-oxazoline)sâ€™ distal end through sequential azido end-capping and Staudinger reactions. European Polymer Journal, 2017, 88, 553-561.	5.4	17
24	Polymeric modification of gemcitabine via cyclic acetal linkage for enhanced anticancer potency with negligible side effects. Biomaterials, 2020, 235, 119804.	11.4	16
25	Engineering Tumour Cell-Binding Synthetic Polymers with Sensing Dense Transporters Associated with Aberrant Glutamine Metabolism. Scientific Reports, 2017, 7, 6077.	3.3	14
26	Artificial Control of Gene Silencing Activity Based on siRNA Conjugation with Polymeric Molecule Having Coilâ€“Globule Transition Behavior. Bioconjugate Chemistry, 2016, 27, 1961-1964.	3.6	13
27	Functional polymer-based siRNA delivery carrier that recognizes site-specific biosignals. Journal of Controlled Release, 2017, 267, 90-99.	9.9	13
28	Photodynamic therapy using LCST polymers exerting pH-responsive isothermal phase transition. Journal of Controlled Release, 2020, 328, 608-616.	9.9	11
29	Potential urinary monitoring of the enhanced permeability and retention effect using MMP-2-responsive poly(ethylene glycol) derivatives. Journal of Controlled Release, 2021, 329, 513-523.	9.9	10
30	Poly(N-isopropylacrylamide)-Based Polymer-Inducing Isothermal Hydrophilic-to-Hydrophobic Phase Transition via Detachment of Hydrophilic Acid-Labile Moiety. Biomacromolecules, 2019, 20, 1493-1504.	5.4	9
31	Utility of the 2â€Nitrobenzenesulfonamide Group as a Chemical Linker for Enhanced Extracellular Stability and Cytosolic Cleavage in siRNAâ€Conjugated Polymer Systems. ChemMedChem, 2017, 12, 19-22.	3.2	8
32	Sequentially Self-Assembled Nanoreactor Comprising Tannic Acid and Phenylboronic Acid-Conjugated Polymers Inducing Tumor-Selective Enzymatic Activity. ACS Applied Materials & Interfaces, 2021, 13, 54850-54859.	8.0	7
33	Changeable net charge on nanoparticles facilitates intratumor accumulation and penetration. Journal of Controlled Release, 2022, 346, 392-404.	9.9	7
34	Fine-Tuning of Repeating Aminoethyelene Units in Poly(aspartamide) Side Chains for Enhanced siRNA Delivery. ACS Symposium Series, 2013, , 189-196.	0.5	5
35	Multilayered polyion complexes with dissolvable silica layer covered by controlling densities of cRGD-conjugated PEG chains for cancer-targeted siRNA delivery. Journal of Biomaterials Science, Polymer Edition, 2017, 28, 1109-1123.	3.5	5
36	An Ethylenediamineâ€based Switch to Render the Polyzwitterion Cationic at Tumorous pH for Effective Tumor Accumulation of Coated Nanomaterials. Angewandte Chemie, 2018, 130, 5151-5155.	2.0	5

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37	Pyruvate Responsiveness Based on Î±-Oxohydrazone Formation for Intracellular siRNA Release from Polyion Complex-Based Carriers. Biomacromolecules, 2019, 20, 2305-2314.	5.4	5
38	Systemically Applicable Glutamine-Functionalized Polymer Exerting Multivalent Interaction with Tumors Overexpressing ASCT2. ACS Applied Bio Materials, 2021, 4, 7402-7407.	4.6	4
39	Construction of nanomaterials based on pH-responsive polymers for effective tumor delivery. Polymer Journal, 2021, 53, 1353-1360.	2.7	2
40	Design of Functional Polymers for Intracellular Nucleic Acids Delivery. Fundamental Biomedical Technologies, 2014, , 207-217.	0.2	2
41	Precisely regulated nanoarchitecture comprised of gold nanotemplate and unimer polyion complex for systemic delivery of siRNA. Journal of Controlled Release, 2015, 213, e75-e76.	9.9	0
42	Macromol. Rapid Commun. 6/2016. Macromolecular Rapid Communications, 2016, 37, 560-560.	3.9	0
43	The 33rd Annual Meeting of the Japan Society of Drug Delivery System. Drug Delivery System, 2017, 32, 348-349.	0.0	0