

# Hyun Jin Kim

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44  
papers

2,777  
citations

26  
h-index

45  
g-index

45  
ext. papers

3,130  
ext. citations

10.2  
avg, IF

4.83  
L-index

#	Paper	IF	Citations
44	Fine-tuning of polyaspartamide derivatives with alicyclic moieties for systemic mRNA delivery.. <i>Journal of Controlled Release</i> , <b>2022</b> , 342, 148-156	11.7	2
43	Bioinspired Silicification of mRNA-Loaded Polyion Complexes for Macrophage-Targeted mRNA Delivery.. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 7790-7799	4.1	3
42	Synthetic molecule libraries for nucleic acid delivery: Design parameters in cationic/ionizable lipids and polymers. <i>Drug Metabolism and Pharmacokinetics</i> , <b>2021</b> , 42, 100428	2.2	2
41	Systemic Brain Delivery of Antisense Oligonucleotides across the Blood-Brain Barrier with a Glucose-Coated Polymeric Nanocarrier. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 8173-8180	16.4	43
40	A 50-nm-Sized Micellar Assembly of Thermo-responsive Polymer-Antisense Oligonucleotide Conjugates for Enhanced Gene Knockdown in Lung Cancer by Intratracheal Administration. <i>Advanced Therapeutics</i> , <b>2020</b> , 3, 1900123	4.9	2
39	Systemic Brain Delivery of Antisense Oligonucleotides across the Blood-Brain Barrier with a Glucose-Coated Polymeric Nanocarrier. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 8250-8257	3.6	4
38	Protein Particles Decorated with Pd Nanoparticles for the Catalytic Reduction of p-Nitrophenol to p-Aminophenol. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 10487-10496	5.6	7
37	Photo-reactive oligodeoxynucleotide-embedded nanovesicles (PROsomes) with switchable stability for efficient cellular uptake and gene knockdown. <i>Chemical Communications</i> , <b>2020</b> , 56, 9477-9480	5.8	0
36	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> , <b>2020</b> , 21, 1215-1224	6.9	9
35	In vivo rendezvous of small nucleic acid drugs with charge-matched block cationomers to target cancers. <i>Nature Communications</i> , <b>2019</b> , 10, 1894	17.4	34
34	Tunable nonenzymatic degradability of $\alpha$ -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> , <b>2019</b> , 20, 105-115	7.1	9
33	Self-Assembly of siRNA/PEG- b-Cationomer at Integer Molar Ratio into 100 nm-Sized Vesicular Polyion Complexes (siRNAsomes) for RNAi and Codelivery of Cargo Macromolecules. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 3699-3709	16.4	40
32	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> , <b>2019</b> , 5, 5770-5780	5.5	11
31	Fine-Tuning of Hydrophobicity in Amphiphilic Polyaspartamide Derivatives for Rapid and Transient Expression of Messenger RNA Directed Toward Genome Engineering in Brain. <i>ACS Central Science</i> , <b>2019</b> , 5, 1866-1875	16.8	30
30	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. <i>Journal of Controlled Release</i> , <b>2019</b> , 295, 268-277	11.7	52
29	Small Delivery Vehicles of siRNA for Enhanced Cancer Targeting. <i>Biomacromolecules</i> , <b>2018</b> , 19, 2377-2396	6.9	21
28	Tuned Density of Anti-Tissue Factor Antibody Fragment onto siRNA-Loaded Polyion Complex Micelles for Optimizing Targetability into Pancreatic Cancer Cells. <i>Biomacromolecules</i> , <b>2018</b> , 19, 2320-2329	6.9	29

27	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> , <b>2017</b> , 28, 1109-1123	3.5	5
26	Nanoparticle delivery of Cas9 ribonucleoprotein and donor DNA induces homology-directed DNA repair. <i>Nature Biomedical Engineering</i> , <b>2017</b> , 1, 889-901	19	404
25	Virus-Mimicking Chimaeric Polymersomes Boost Targeted Cancer siRNA Therapy In Vivo. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703285	24	110
24	Recent progress in development of siRNA delivery vehicles for cancer therapy. <i>Advanced Drug Delivery Reviews</i> , <b>2016</b> , 104, 61-77	18.5	283
23	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> , <b>2016</b> , 17, 246-55	6.9	40
22	Systemic delivery of siRNA by actively targeted polyion complex micelles for silencing the E6 and E7 human papillomavirus oncogenes. <i>Journal of Controlled Release</i> , <b>2016</b> , 231, 29-37	11.7	37
21	Preparation of Polyion Complex Micelles Using Block Copolymers for SiRNA Delivery. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1364, 89-103	1.4	5
20	Targeting the Notch-regulated non-coding RNA TUG1 for glioma treatment. <i>Nature Communications</i> , <b>2016</b> , 7, 13616	17.4	201
19	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> , <b>2016</b> , 244, 247-256	11.7	68
18	In vivo delivery of transcription factors with multifunctional oligonucleotides. <i>Nature Materials</i> , <b>2015</b> , 14, 701-6	27	54
17	Peptide-enhanced mRNA transfection in cultured mouse cardiac fibroblasts and direct reprogramming towards cardiomyocyte-like cells. <i>International Journal of Nanomedicine</i> , <b>2015</b> , 10, 1841-54	7.3	26
16	Precisely regulated nanoarchitecture comprised of gold nanotemplate and unimer polyion complex for systemic delivery of siRNA. <i>Journal of Controlled Release</i> , <b>2015</b> , 213, e75-6	11.7	
15	Multifunctional polyion complex micelle featuring enhanced stability, targetability, and endosome escapability for systemic siRNA delivery to subcutaneous model of lung cancer. <i>Drug Delivery and Translational Research</i> , <b>2014</b> , 4, 50-60	6.2	39
14	Precise engineering of siRNA delivery vehicles to tumors using polyion complexes and gold nanoparticles. <i>ACS Nano</i> , <b>2014</b> , 8, 8979-91	16.7	109
13	siRNA delivery from triblock copolymer micelles with spatially-ordered compartments of PEG shell, siRNA-loaded intermediate layer, and hydrophobic core. <i>Biomaterials</i> , <b>2014</b> , 35, 4548-56	15.6	71
12	Systemic siRNA delivery to a spontaneous pancreatic tumor model in transgenic mice by PEGylated calcium phosphate hybrid micelles. <i>Journal of Controlled Release</i> , <b>2014</b> , 178, 18-24	11.7	94
11	Optimization of pancreatic islet spheroid using various concave patterned-films. <i>Macromolecular Research</i> , <b>2012</b> , 20, 1264-1270	1.9	7
10	PEG-detachable cationic polyaspartamide derivatives bearing stearyl moieties for systemic siRNA delivery toward subcutaneous BxPC3 pancreatic tumor. <i>Journal of Drug Targeting</i> , <b>2012</b> , 20, 33-42	5.4	34

9	Targeted polymeric micelles for siRNA treatment of experimental cancer by intravenous injection. <i>ACS Nano</i> , <b>2012</b> , 6, 5174-89	16.7	167
8	Introduction of stearyl moieties into a biocompatible cationic polyaspartamide derivative, PAsp(DET), with endosomal escaping function for enhanced siRNA-mediated gene knockdown. <i>Journal of Controlled Release</i> , <b>2010</b> , 145, 141-8	11.7	105
7	Efficient delivery of bioactive antibodies into the cytoplasm of living cells by charge-conversional polyion complex micelles. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 2552-5	16.4	160
6	Charge-conversional polyionic complex micelles-efficient nanocarriers for protein delivery into cytoplasm. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 5309-12	16.4	271
5	Biodegradable PAMAM ester for enhanced transfection efficiency with low cytotoxicity. <i>Biomaterials</i> , <b>2009</b> , 30, 665-73	15.6	134
4	Seed-dependent accelerated fibrillation of alpha-synuclein induced by periodic ultrasonication treatment. <i>Journal of Microbiology and Biotechnology</i> , <b>2007</b> , 17, 2027-32	3.3	31
3	Characterization of surface-confined alpha-synuclein by surface plasmon resonance measurements. <i>Langmuir</i> , <b>2006</b> , 22, 13-7	4	11
2	Calpain-resistant fragment(s) of alpha-synuclein regulates the synuclein-cleaving activity of 20S proteasome. <i>Archives of Biochemistry and Biophysics</i> , <b>2006</b> , 455, 40-7	4.1	13
1	Combination of peptides with biological, organic, and inorganic materials for synergistically enhanced diagnostics and therapeutics. <i>Peptide Science</i> , e24233	3	0