Shigeru Kawakami

List of Publications by Year
in descending order

73	2,246	218677	233421
papers	citations	26 h-index	45 g-index

74	74	74	2421
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent advances in lipid nanoparticles for delivery of nucleic acid, mRNA, and gene editing-based therapeutics. Drug Metabolism and Pharmacokinetics, 2022, 44, 100450.	2.2	33
2	Synthesis and Evaluation of High Functionality and Quality Cell-penetrating Peptide Conjugated Lipid for Octaarginine Modified PEGylated Liposomes In U251 and U87 Glioma Cells. Journal of Pharmaceutical Sciences, 2022, 111, 1719-1727.	3.3	4
3	Focused ultrasound/microbubbles-assisted BBB opening enhances LNP-mediated mRNA delivery to brain. Journal of Controlled Release, 2022, 348, 34-41.	9.9	40
4	Synthesis and evaluation of a novel adapter lipid derivative for preparation of cyclic peptide-modified PEGylated liposomes: Application of cyclic RGD peptide. European Journal of Pharmaceutical Sciences, 2022, 176, 106239.	4.0	14
5	Suppression of Peritoneal Fibrosis by Sonoporation of Hepatocyte Growth Factor Gene-Encoding Plasmid DNA in Mice. Pharmaceutics, 2021, 13, 115.	4.5	9
6	Evaluation of transgene expression characteristics and DNA vaccination against melanoma metastasis of an intravenously injected ternary complex with biodegradable dendrigraft poly-L-lysine in mice. Drug Delivery, 2021, 28, 542-549.	5.7	3
7	Efficient Messenger RNA Delivery to the Kidney Using Renal Pelvis Injection in Mice. Pharmaceutics, 2021, 13, 1810.	4.5	12
8	Ligand Design for Specific MHC Class I Molecules on the Cell Surface. Biochemistry, 2020, 59, 4646-4653.	2.5	1
9	A pH-Adjustable Tissue Clearing Solution That Preserves Lipid Ultrastructures: Suitable Tissue Clearing Method for DDS Evaluation. Pharmaceutics, 2020, 12, 1070.	4.5	10
10	Development of a DNA Vaccine for Melanoma Metastasis by Inhalation Based on an Analysis of Transgene Expression Characteristics of Naked pDNA and a Ternary Complex in Mouse Lung Tissues. Pharmaceutics, 2020, 12, 540.	4.5	16
11	Recent Strategies for Targeted Brain Drug Delivery. Chemical and Pharmaceutical Bulletin, 2020, 68, 567-582.	1.3	18
12	Effects of Tissue Pressure on Transgene Expression Characteristics via Renal Local Administration Routes from Ureter or Renal Artery in the Rat Kidney. Pharmaceutics, 2020, 12, 114.	4.5	7
13	Tissue suction-mediated gene transfer to the beating heart in mice. PLoS ONE, 2020, 15, e0228203.	2.5	3
14	Synthesis of a high functionality and quality lipid with gp130 binding hydrophobic peptide for the preparation of human glioma cell-targeted PEGylated liposomes. Journal of Drug Delivery Science and Technology, 2019, 49, 668-673.	3.0	13
15	Application of Direct Sonoporation from a Defined Surface Area of the Peritoneum: Evaluation of Transfection Characteristics in Mice. Pharmaceutics, 2019, 11, 244.	4.5	13
16	Synthesis of a Novel Pyrazineâ€“Pyridone Biheteroaryl-Based Fluorescence Sensor and Detection of Endogenous Labile Zinc Ions in Lung Cancer Cells. Sensors, 2019, 19, 2049.	3.8	10
17	Targeted co-delivery of protein and drug to a tumor in vivo by sophisticated RGD-modified lipid-calcium carbonate nanoparticles. Journal of Controlled Release, 2019, 302, 42-53.	9.9	57
18	Ultrasound-responsive nanobubble-mediated gene transfection in the cerebroventricular region by intracerebroventricular administration in mice. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 137, 1-8.	4.3	14

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19	Brain Microdialysis Study of Vancomycin in the Cerebrospinal Fluid After Intracerebroventricular Administration in Mice. AAPS PharmSciTech, 2019, 20, 5.	3.3	7
20	Evaluation of the targeted delivery of 5-fluorouracil and ascorbic acid into the brain with ultrasound-responsive nanobubbles. Journal of Drug Targeting, 2018, 26, 684-691.	4.4	9
21	Gene delivery system of pDNA using the blood glycoprotein fetuin. Journal of Drug Targeting, 2018, 26, 604-609.	4.4	2
22	Determining Transgene Expression Characteristics Using a Suction Device with Multiple Hole Adjusting a Left Lateral Lobe of the Mouse Liver. Biological and Pharmaceutical Bulletin, 2018, 41, 944-950.	1.4	6
23	Evaluation of miR-122 to Predict High Dose Acetaminophen-Induced Liver Injury in Mice: The Combination Uses of 5-Fluorouracil. Biological and Pharmaceutical Bulletin, 2018, 41, 1732-1735.	1.4	8
24	Investigation of Intracellular Delivery of NuBCP-9 by Conjugation with Oligoarginines Peptides in MDA-MB-231 Cells. Biological and Pharmaceutical Bulletin, 2018, 41, 1448-1455.	1.4	3
25	Development of High-Functionality and -Quality Lipids with RGD Peptide Ligands: Application for PEGylated Liposomes and Analysis of Intratumoral Distribution in a Murine Colon Cancer Model. Molecular Pharmaceutics, 2018, 15, 4481-4490.	4.6	22
26	Efficient gene transfection to the brain with ultrasound irradiation in mice using stabilized bubble lipopolyplexes prepared by the surface charge regulation method. International Journal of Nanomedicine, 2018, Volume 13, 2309-2320.	6.7	27
27	Synthesis of high functionality and quality mannose-grafted lipids to produce macrophage-targeted liposomes. European Journal of Pharmaceutical Sciences, 2018, 123, 153-161.	4.0	20
28	Ligand peptide-grafted PEGylated liposomes using HER2 targeted peptide-lipid derivatives for targeted delivery in breast cancer cells: The effect of serine-glycine repeated peptides as a spacer. International Journal of Pharmaceutics, 2017, 521, 361-364.	5.2	31
29	The development of mechanically formed stable nanobubbles intended for sonoporation-mediated gene transfection. Drug Delivery, 2017, 24, 320-327.	5.7	25
30	Synthesis and Functional Characterization of Novel Sialyl LewisX Mimic-Decorated Liposomes for E-selectin-Mediated Targeting to Inflamed Endothelial Cells. Molecular Pharmaceutics, 2017, 14, 1528-1537.	4.6	23
31	Effective intraperitoneal gene transfection system using nanobubbles and ultrasound irradiation. Drug Delivery, 2017, 24, 737-744.	5.7	17
32	Characterization of transgene expression and pDNA distribution of the suctioned kidney in mice. Drug Delivery, 2017, 24, 906-917.	5.7	15
33	Peptide-Based Cancer-Targeted DDS and Molecular Imaging. Chemical and Pharmaceutical Bulletin, 2017, 65, 618-624.	1.3	28
34	Tumor growth suppression by the combination of nanobubbles and ultrasound. Cancer Science, 2016, 107, 217-223.	3.9	48
35	Optimization of renal transfection using a renal suction-mediated transfection method in mice. Journal of Drug Targeting, 2016, 24, 450-456.	4.4	6
36	Three-Dimensional Imaging of the Intracellular Fate of Plasmid DNA and Transgene Expression: ZsGreen1 and Tissue Clearing Method CUBIC Are an Optimal Combination for Multicolor Deep Imaging in Murine Tissues. PLoS ONE, 2016, 11, e0148233.	2.5	31

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37	Evaluation of the neurochemical effects of methoxetamine using brain microdialysis in mice. Forensic Toxicology, 2015, 33, 374-379.	2.4	8
38	Long-termin vivogene expression in mouse kidney usingÏ•C31 integrase and electroporation. Journal of Drug Targeting, 2015, 23, 427-435.	4.4	5
39	Evaluation of the potential of doxorubicin loaded microbubbles as a theranostic modality using a murine tumor model. Acta Biomaterialia, 2015, 19, 112-118.	8.3	36
40	Development of fluorous lipid-based nanobubbles for efficiently containing perfluoropropane. International Journal of Pharmaceutics, 2015, 487, 64-71.	5.2	21
41	Tumour-associated macrophages targeted transfection with NF-ÎºB decoy/mannose-modified bubble lipoplexes inhibits tumour growth in tumour-bearing mice. Journal of Drug Targeting, 2014, 22, 439-449.	4.4	18
42	Kidney-selective gene transfection using anionic bubble lipopolyplexes with renal ultrasound irradiation in mice. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 1829-1838.	3.3	16
43	Evaluation of inflammatory responses due to small interfering RNA transfer using unmodified- and mannose-modified bubble lipoplexes with ultrasound exposure in primary cultured macrophages. Journal of Drug Targeting, 2014, 22, 732-738.	4.4	3
44	Development of anionic bubble lipopolyplexes for efficient and safe gene transfection with ultrasound exposure in mice. Journal of Controlled Release, 2014, 176, 24-34.	9.9	25
45	Glycosylation-mediated targeting of carriers. Journal of Controlled Release, 2014, 190, 542-555.	9.9	62
46	Combination of Nanoparticles with Physical Stimuli toward Cancer Therapy. Biological and Pharmaceutical Bulletin, 2014, 37, 212-216.	1.4	17
47	Liver Suction-Mediated Transfection in Mice Using a Pressure-Controlled Computer System. Biological and Pharmaceutical Bulletin, 2014, 37, 569-575.	1.4	6
48	Evaluation of Long-Term Gene Expression in Mouse Liver Using PhiC31 Integrase and Hydrodynamic Injection. Biological and Pharmaceutical Bulletin, 2012, 35, 1182-1186.	1.4	8
49	In vivo Site-Specific Transfection of Naked Plasmid DNA and siRNAs in Mice by Using a Tissue Suction Device. PLoS ONE, 2012, 7, e41319.	2.5	26
50	Efficient suppression of murine intracellular adhesion molecule-1 using ultrasound-responsive and mannose-modified lipoplexes inhibits acute hepatic inflammation. Hepatology, 2012, 56, 259-269.	7.3	41
51	Implantable pneumatically actuated microsystem for renal pressure-mediated transfection in mice. Journal of Controlled Release, 2012, 159, 85-91.	9.9	10
52	Suppression of Melanoma Growth and Metastasis by DNA Vaccination Using an Ultrasound-Responsive and Mannose-Modified Gene Carrier. Molecular Pharmaceutics, 2011, 8, 543-554.	4.6	68
53	Evaluation of Osteoclastogenesis via NFÎºB Decoy/mannosylated Cationic Liposome-Mediated Inhibition of Pro-inflammatory Cytokine Production from Primary Cultured Macrophages. Pharmaceutical Research, 2011, 28, 742-751.	3.5	15
54	The elucidation of gene transferring mechanism by ultrasound-responsive unmodified and mannose-modified lipoplexes. Biomaterials, 2011, 32, 4659-4669.	11.4	30

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55	Key Physiological Phenomena Governing Transgene Expression Based on Tissue Pressure-Mediated Transfection in Mice. Biological and Pharmaceutical Bulletin, 2010, 33, 1627-1632.	1.4	26
56	Development of an ultrasound-responsive and mannose-modified gene carrier for DNA vaccine therapy. Biomaterials, 2010, 31, 7813-7826.	11.4	85
57	Strategies for In Vivo Delivery of siRNAs. BioDrugs, 2010, 24, 195-205.	4.6	105
58	piggyBac Transposon-mediated Long-term Gene Expression in Mice. Molecular Therapy, 2010, 18, 707-714.	8.2	84
59	Enhanced Transfection Efficiency into Macrophages and Dendritic Cells by a Combination Method Using Mannosylated Lipoplexes and Bubble Liposomes with Ultrasound Exposure. Human Gene Therapy, 2010, 21, 65-74.	2.7	59
60	The development of a gene vector electrostatically assembled with a polysaccharide capsule. Biomaterials, 2009, 30, 4427-4434.	11.4	69
61	Pressure-Mediated Transfection of Murine Spleen and Liver. Human Gene Therapy, 2009, 20, 1157-1167.	2.7	20
62	Evaluation of proinflammatory cytokine production and liver injury induced by plasmid DNA/cationic liposome complexes with various mixing ratios in mice. European Journal of Pharmaceutics and Biopharmaceutics, 2009, 71, 303-309.	4.3	30
63	Nonviral approaches for targeted delivery of plasmid DNA and oligonucleotide. Journal of Pharmaceutical Sciences, 2008, 97, 726-745.	3.3	124
64	Mannosylated semiconductor quantum dots for the labeling of macrophages. Journal of Controlled Release, 2008, 125, 131-136.	9.9	62
65	Renal press-mediated transfection method for plasmid DNA and siRNA to the kidney. Biochemical and Biophysical Research Communications, 2008, 372, 383-387.	2.1	38
66	Optimization of tumor-selective targeting by basic fibroblast growth factor-binding peptide grafted PEGylated liposomes. Journal of Controlled Release, 2007, 119, 262-270.	9.9	43
67	Effect of mannose density on mannose receptor-mediated cellular uptake of mannosylated O/W emulsions by macrophages. Journal of Controlled Release, 2006, 114, 193-201.	9.9	77
68	Lipid Carrier Systems for Targeted Drug and Gene Delivery. Chemical and Pharmaceutical Bulletin, 2005, 53, 871-880.	1.3	86
69	The role of dioleoylphosphatidylethanolamine (DOPE) in targeted gene delivery with mannosylated cationic liposomes via intravenous route. Journal of Controlled Release, 2005, 108, 484-495.	9.9	90
70	Tissue and intrahepatic distribution and subcellular localization of a mannosylated lipoplex after intravenous administration in mice. Journal of Controlled Release, 2004, 98, 157-167.	9.9	26
71	Kidney- and Site-Selective Delivery of 5-Fluorouracil Utilizing the Absorption on the Kidney Surface in Rats.. Biological and Pharmaceutical Bulletin, 2002, 25, 928-930.	1.4	16
72	Liver- and lobe-selective gene transfection following the instillation of plasmid DNA to the liver surface in mice. Biochemical and Biophysical Research Communications, 2002, 294, 46-50.	2.1	29

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73	In vivo gene delivery to the liver using novel galactosylated cationic liposomes. Pharmaceutical Research, 2000, 17, 306-313.	3.5	155