

Akihiro Kishimura

List of Publications by Year in descending order

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102
papers

4,263
citations

159585

30
h-index

110387

64
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116
all docs

116
docs citations

116
times ranked

5176
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanostructure Control of an Antibiotic-Based Polyion Complex Using a Series of Polycations with Different Side-Chain Modification Rates. <i>Macromolecular Rapid Communications</i> , 2022, 43, .	3.9	3
2	Answering to social issues “ How can we build and utilize a backcasting-approach-based open innovation platform?. <i>Drug Delivery System</i> , 2022, 37, 45-53.	0.0	0
3	Fc-Binding Antibody-Recruiting Molecules Targeting Prostate-Specific Membrane Antigen: Defucosylation of Antibody for Efficacy Improvement**. <i>ChemBioChem</i> , 2021, 22, 496-500.	2.6	7
4	Comparative Evaluation of Natural Killer Cell-Mediated Cell Killing Assay Based on the Leakage of an Endogenous Enzyme or a Pre-Loaded Fluorophore. <i>Analytical Sciences</i> , 2021, 37, 1571-1575.	1.6	1
5	Synthesis and biological evaluation of a monocyclic Fc-binding antibody-recruiting molecule for cancer immunotherapy. <i>RSC Medicinal Chemistry</i> , 2021, 12, 406-409.	3.9	5
6	A FRET-based Protein Kinase Assay Using Phos-tag-modified Quantum Dots and Fluorophore-labeled Peptides. <i>Analytical Sciences</i> , 2021, 37, 1361-1366.	1.6	5
7	Specific adsorption of a β -lactam antibiotic <i>in vivo</i> by an anion-exchange resin for protection of the intestinal microbiota. <i>Biomaterials Science</i> , 2021, 9, 7219-7227.	5.4	4
8	Polyvinyl Butyrate Nanoparticles as Butyrate Donors for Colitis Treatment. <i>ACS Applied Bio Materials</i> , 2021, 4, 2335-2341.	4.6	5
9	Effect of a Chloroacetyl Modification on the Suppression of Dissociation of a Fluorescent Molecule from Cells for Antigen-Specific Cell Staining. <i>Analytical Sciences</i> , 2021, 37, 529-532.	1.6	0
10	Protein Kinase C β -Responsive Gene Carrier for Cancer-Specific Transgene Expression and Cancer Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 2530-2537.	5.2	4
11	Effect of Size and Loading of Retinoic Acid in Polyvinyl Butyrate Nanoparticles on Amelioration of Colitis. <i>Polymers</i> , 2021, 13, 1472.	4.5	2
12	Inducible Dynamic Behavior of Polyion Complex Vesicles by Disrupting Charge Balance. <i>Chemistry Letters</i> , 2021, 50, 1034-1037.	1.3	6
13	β -Arabinofuranosidase as an Orthogonal Enzyme for Human Cells. <i>Chemistry Letters</i> , 2021, 50, 1493-1495.	1.3	2
14	Preparation of a PEGylated liposome that co-encapsulates α -arginine and doxorubicin to achieve a synergistic anticancer effect. <i>RSC Advances</i> , 2021, 11, 34101-34106.	3.6	7
15	Photo-reactive oligodeoxynucleotide-embedded nanovesicles (PROsomes) with switchable stability for efficient cellular uptake and gene knockdown. <i>Chemical Communications</i> , 2020, 56, 9477-9480.	4.1	2
16	Synthesis of peptide conjugates with vitamins for induction of antigen-specific immunotolerance. <i>Journal of Peptide Science</i> , 2020, 26, e3275.	1.4	0
17	Ligand Design for Specific MHC Class I Molecules on the Cell Surface. <i>Biochemistry</i> , 2020, 59, 4646-4653.	2.5	1
18	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.	5.4	17

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19	Effect of polyvinyl butyrate nanoparticles incorporated with immune suppressing vitamins on alteration of population of intestinal immune cells. <i>Progress in Natural Science: Materials International</i> , 2020, 30, 707-710.	4.4	2
20	Induction of ADCC by a folic acid- α mAb conjugate prepared by tryptophan-selective reaction toward folate-receptor-positive cancer cells. <i>RSC Advances</i> , 2020, 10, 16727-16731.	3.6	8
21	Blood retention and antigenicity of polycarboxybetaine-modified liposomes. <i>International Journal of Pharmaceutics</i> , 2020, 586, 119521.	5.2	5
22	Fc-binding antibody-recruiting molecules exploit endogenous antibodies for anti-tumor immune responses. <i>Chemical Science</i> , 2020, 11, 3208-3214.	7.4	14
23	Fluorescence Signal Amplification by Using β -Galactosidase for Flow Cytometry; Advantages of an Endogenous Activity-Free Enzyme. <i>Analytical Chemistry</i> , 2020, 92, 3069-3076.	6.5	6
24	Modification of nitric oxide donors onto a monoclonal antibody boosts accumulation in solid tumors. <i>International Journal of Pharmaceutics</i> , 2020, 583, 119352.	5.2	0
25	A Lipid-Based Nanocarrier Containing Active Vitamin D ₃ Ameliorates NASH in Mice via Direct and Intestine-Mediated Effects on Liver Inflammation. <i>Biological and Pharmaceutical Bulletin</i> , 2020, 43, 1413-1420.	1.4	8
26	Protection of gut microbiome from antibiotics: development of a vancomycin-specific adsorbent with high adsorption capacity. <i>Bioscience of Microbiota, Food and Health</i> , 2020, 39, 128-136.	1.8	8
27	Effect of an Endothelin B Receptor Agonist on the Tumor Accumulation of Nanocarriers. <i>Biological and Pharmaceutical Bulletin</i> , 2020, 43, 1301-1305.	1.4	0
28	Evaluation of a Synergistic Effect of L-Arginine on the Anticancer Activity of Doxorubicin by Using a Co-culture System. <i>Analytical Sciences</i> , 2020, 36, 1279-1283.	1.6	3
29	Regulation of inflammatory response of macrophages and induction of regulatory T cells by using retinoic acid-loaded nanostructured lipid carrier. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2019, 30, 1-11.	3.5	14
30	Folate receptor-specific cell-cell adhesion by using a folate-modified peptide-based anchor. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2019, 30, 983-993.	3.5	1
31	Rapid and continuous accumulation of nitric oxide-releasing liposomes in tumors to augment the enhanced permeability and retention (EPR) effect. <i>International Journal of Pharmaceutics</i> , 2019, 565, 481-487.	5.2	35
32	Self-Assembly of siRNA/PEG-Cationer 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> , 2019, 141, 3699-3709.	13.7	54
33	Synthesis of Transmembrane Molecules by Click Chemistry. <i>Chemistry Letters</i> , 2019, 48, 433-436.	1.3	1
34	Glassware cleaning. <i>Drug Delivery System</i> , 2019, 34, 213-215.	0.0	0
35	A peptide inhibitor of antibody-dependent cell-mediated cytotoxicity against EGFR/folate receptor- β double positive cells. <i>MedChemComm</i> , 2018, 9, 783-788.	3.4	6
36	Ligand-Mediated Coating of Liposomes with Human Serum Albumin. <i>Langmuir</i> , 2018, 34, 2324-2331.	3.5	22

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37	Alkaline Phosphatase-Catalyzed Amplification of a Fluorescence Signal for Flow Cytometry. <i>Analytical Chemistry</i> , 2018, 90, 1059-1062.	6.5	13
38	The aggregation of an alkylâ€“C₆₀ derivative as a function of concentration, temperature and solvent type. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 3373-3380.	2.8	4
39	A Dual Alkylated Peptide-ligand Enhances Affinity to Human Serum Albumin. <i>Analytical Sciences</i> , 2018, 34, 501-504.	1.6	5
40	Non-covalent Coating of Liposome Surface with IgG through Its Constant Region. <i>Chemistry Letters</i> , 2018, 47, 770-772.	1.3	4
41	Robust Polyion Complex Vesicles (PICsomes) under Physiological Conditions Reinforced by Multiple Hydrogen Bond Formation Derived by Guanidinium Groups. <i>Biomacromolecules</i> , 2018, 19, 4113-4121.	5.4	33
42	Preparation of Complexes between Ovalbumin Nanoparticles and Retinoic Acid for Efficient Induction of Tolerogenic Dendritic Cells. <i>Analytical Sciences</i> , 2018, 34, 1243-1248.	1.6	1
43	Targeting ability of self-assembled nanomedicines in rat acute limb ischemia model is affected by size. <i>Journal of Controlled Release</i> , 2018, 286, 394-401.	9.9	7
44	Therapeutic effect of vitamin D3-containing nanostructured lipid carriers on inflammatory bowel disease. <i>Journal of Controlled Release</i> , 2018, 286, 94-102.	9.9	16
45	Use of Membrane Potential to Achieve Transmembrane Modification with an Artificial Receptor. <i>Bioconjugate Chemistry</i> , 2017, 28, 296-301.	3.6	5
46	Design of a ligand for cancer imaging with long blood circulation and an enhanced accumulation ability in tumors. <i>MedChemComm</i> , 2017, 8, 1190-1195.	3.4	8
47	Facilitating the presentation of antigen peptides on dendritic cells for cancer immunotherapy using a polymer-based synthetic receptor. <i>MedChemComm</i> , 2017, 8, 1207-1212.	3.4	1
48	Synergic modulation of the inflammatory state of macrophages utilizing anti-oxidant and phosphatidylserine-containing polymerâ€“lipid hybrid nanoparticles. <i>MedChemComm</i> , 2017, 8, 1514-1520.	3.4	6
49	Development of Enzyme Loaded Polyion Complex Vesicle (PICsome): Thermal Stability of Enzyme in PICsome Compartment and Effect of Coencapsulation of Dextran on Enzyme Activity. <i>Macromolecular Bioscience</i> , 2017, 17, 1600542.	4.1	17
50	Modification of ligands for serum albumin on polyethyleneimine to stabilize polyplexes in gene delivery. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2017, 28, 1382-1393.	3.5	7
51	Facile Preparation of Delivery Platform of Water-Soluble Low-Molecular-Weight Drugs Based on Polyion Complex Vesicle (PICsome) Encapsulating Mesoporous Silica Nanoparticle. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 807-815.	5.2	13
52	Encapsulation of a nitric oxide donor into a liposome to boost the enhanced permeation and retention (EPR) effect. <i>MedChemComm</i> , 2017, 8, 415-421.	3.4	50
53	Unilamellar polyion complex vesicles (PICsomes) with tunable permeabilities for macromolecular solutes with different shapes and sizes. <i>Polymer</i> , 2017, 133, 1-7.	3.8	17
54	Systemically Injectable Enzymeâ€“Loaded Polyion Complex Vesicles as In Vivo Nanoreactors Functioning in Tumors. <i>Angewandte Chemie</i> , 2016, 128, 570-575.	2.0	28

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55	Adequately-Sized Nanocarriers Allow Sustained Targeted Drug Delivery to Neointimal Lesions in Rat Arteries. <i>Molecular Pharmaceutics</i> , 2016, 13, 2108-2116.	4.6	16
56	An emerging material “PICsome”; A hot zone between “PEG” and “PEG”. <i>Drug Delivery System</i> , 2016, 31, 308-319.	0.0	1
57	A Membrane-integrated Microfluidic Device to Study Permeation of Nanoparticles through Straight Micropores toward Rational Design of Nanomedicines. <i>Analytical Sciences</i> , 2016, 32, 1307-1314.	1.6	8
58	Systemically Injectable Enzyme-Loaded Polyion Complex Vesicles as In Vivo Nanoreactors Functioning in Tumors. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 560-565.	13.8	149
59	Fabrication of Dendrimer-Based Polyion Complex Submicrometer-Scaled Structures with Enhanced Stability under Physiological Conditions. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1087-1093.	3.9	18
60	Calcium phosphate-based organic-inorganic hybrid nanocarriers with pH-responsive on/off switch for photodynamic therapy. <i>Biomaterials Science</i> , 2016, 4, 826-838.	5.4	59
61	Synergy between phenotypic modulation and ROS neutralization in reduction of inflammatory response of hypoxic microglia by using phosphatidylserine and antioxidant containing liposomes. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2016, 27, 290-302.	3.5	12
62	Reversal of efflux of an anticancer drug in human drug-resistant breast cancer cells by inhibition of protein kinase C \pm (PKC \pm) activity. <i>Tumor Biology</i> , 2016, 37, 1901-1908.	1.8	18
63	Antibody Internalization into Living Cells via Crosslinker-mediated Endocytosis. <i>Chemistry Letters</i> , 2015, 44, 468-470.	1.3	0
64	Utilization of a PNA-peptide conjugate to induce a cancer protease-responsive RNAi effect. <i>RSC Advances</i> , 2015, 5, 85816-85821.	3.6	1
65	42nd Annual Meeting & Exposition of Controlled Release Society(CRS). <i>Drug Delivery System</i> , 2015, 30, 402-404.	0.0	0
66	Density-tunable conjugation of cyclic RGD ligands with polyion complex vesicles for the neovascular imaging of orthotopic glioblastomas. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 035004.	6.1	32
67	Tumor accumulation of protein kinase-responsive gene carrier/DNA polyplex stabilized by alkanethiol for intravenous injection. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2015, 26, 657-668.	3.5	2
68	Optimum design of amphiphilic polymers bearing hydrophobic groups for both cell surface ligand presentation and intercellular cross-linking. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2015, 26, 353-368.	3.5	9
69	Induction of Secondary Structure through Micellization of an Oppositely Charged Pair of Homochiral Block and Homopolypeptides in an Aqueous Medium. <i>Macromolecular Rapid Communications</i> , 2015, 36, 1958-1964.	3.9	17
70	Suppression of atopic dermatitis in mice model by reducing inflammation utilizing phosphatidylserine-coated biodegradable microparticles. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2015, 26, 1465-1474.	3.5	6
71	Short Peptide Motifs for Long-Lasting Anchoring to the Cell Surface. <i>Bioconjugate Chemistry</i> , 2014, 25, 2134-2143.	3.6	24
72	Structural factors directing nanosized polyion complex vesicles (Nano-PICsomes) to form a pair of block anioner/homo cationers: studies on the anioner segment length and the cationer side-chain structure. <i>Polymer Journal</i> , 2014, 46, 130-135.	2.7	36

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73	Multicompartment Micelles with Adjustable Poly(ethylene glycol) Shell for Efficient <i>in Vivo</i> Photodynamic Therapy. <i>ACS Nano</i> , 2014, 8, 1161-1172.	14.6	78
74	Polyion Complex Vesicles for Photoinduced Intracellular Delivery of Amphiphilic Photosensitizer. <i>Journal of the American Chemical Society</i> , 2014, 136, 157-163.	13.7	171
75	Rapid and serum-insensitive endocytotic delivery of proteins using biotinylated polymers attached via multivalent hydrophobic anchors. <i>Journal of Controlled Release</i> , 2014, 177, 27-33.	9.9	15
76	Histidinylated poly-L-lysine-based vectors for cancer-specific gene expression via enhancing the endosomal escape. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2014, 25, 519-534.	3.5	11
77	Fluorescent Polyion Complex Nanoparticle That Incorporates an Internal Standard for Quantitative Analysis of Protein Kinase Activity. <i>Bioconjugate Chemistry</i> , 2014, 25, 869-872.	3.6	5
78	Hydrothermally synthesized PEGylated calcium phosphate nanoparticles incorporating Gd-DTPA for contrast enhanced MRI diagnosis of solid tumors. <i>Journal of Controlled Release</i> , 2014, 174, 63-71.	9.9	102
79	Morphology Control in Water of Polyion Complex Nanoarchitectures of Double-Hydrophilic Charged Block Copolymers through Composition Tuning and Thermal Treatment. <i>Macromolecules</i> , 2014, 47, 3086-3092.	4.8	42
80	Fabrication of Polyion Complex Vesicles with Enhanced Salt and Temperature Resistance and Their Potential Applications as Enzymatic Nanoreactors. <i>Biomacromolecules</i> , 2014, 15, 2389-2397.	5.4	71
81	Nanodevices for studying nano-pathophysiology. <i>Advanced Drug Delivery Reviews</i> , 2014, 74, 35-52.	13.7	30
82	A Liposome Reversibly Coated with Serum Albumin. <i>Chemistry Letters</i> , 2014, 43, 1481-1483.	1.3	5
83	Living Unimodal Growth of Polyion Complex Vesicles via Two-Dimensional Supramolecular Polymerization. <i>Journal of the American Chemical Society</i> , 2013, 135, 1423-1429.	13.7	78
84	SPIO-PICsome: Development of a highly sensitive and stealth-capable MRI nano-agent for tumor detection using SPIO-loaded unilamellar polyion complex vesicles (PICsomes). <i>Journal of Controlled Release</i> , 2013, 169, 220-227.	9.9	56
85	Direct formation of giant unilamellar vesicles from microparticles of polyion complexes and investigation of their properties using a microfluidic chamber. <i>Soft Matter</i> , 2013, 9, 5448.	2.7	22
86	Silica nanogelling of environment-responsive PEGylated polyplexes for enhanced stability and intracellular delivery of siRNA. <i>Biomaterials</i> , 2013, 34, 562-570.	11.4	29
87	Development of polyion complex vesicles (PICsomes) from block copolymers for biomedical applications. <i>Polymer Journal</i> , 2013, 45, 892-897.	2.7	60
88	Bioactive Polymeric Metallosomes Self-Assembled through Block Copolymer-Metal Complexation. <i>Journal of the American Chemical Society</i> , 2012, 134, 13172-13175.	13.7	81
89	Size-controlled long-circulating PICsome as a ruler to measure critical cut-off disposition size into normal and tumor tissues. <i>Chemical Communications</i> , 2011, 47, 6054.	4.1	97
90	Photoinduced Hydrogen-Generating Nanogel Systems. <i>Small</i> , 2011, 7, 311-315.	10.0	20

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91	Visible Drug Delivery by Supramolecular Nanocarriers Directing to Single-Platformed Diagnosis and Therapy of Pancreatic Tumor Model. <i>Cancer Research</i> , 2010, 70, 7031-7041.	0.9	132
92	Spontaneous Formation of Nanosized Unilamellar Polyion Complex Vesicles with Tunable Size and Properties. <i>Journal of the American Chemical Society</i> , 2010, 132, 1631-1636.	13.7	219
93	Spontaneous Formation of Giant Unilamellar Vesicles from Microdroplets of a Polyion Complex by Thermally Induced Phase Separation. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4613-4616.	13.8	50
94	Monodispersed Polymeric Nanocapsules: Spontaneous Evolution and Morphology Transition from Reducible Hetero-PEG PICmicelles by Controlled Degradation. <i>Journal of the American Chemical Society</i> , 2009, 131, 3804-3805.	13.7	151
95	pH-dependent permeability change and reversible structural transition of PEGylated polyion complex vesicles (PICsomes) in aqueous media. <i>Soft Matter</i> , 2009, 5, 529-532.	2.7	59
96	Spontaneous formation of giant unilamellar vesicles from microdroplets of a polyion complex by focused infrared laser irradiation. , 2009, , .		0
97	Dendrimer Generation Effects on Photodynamic Efficacy of Dendrimer Porphyrins and Dendrimer-Loaded Supramolecular Nanocarriers. <i>Chemistry of Materials</i> , 2007, 19, 5557-5562.	6.7	56
98	Encapsulation of Myoglobin in PEGylated Polyion Complex Vesicles Made from a Pair of Oppositely Charged Block Ionomers: A Physiologically Available Oxygen Carrier. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6085-6088.	13.8	211
99	Semipermeable Polymer Vesicle (PICsome) Self-Assembled in Aqueous Medium from a Pair of Oppositely Charged Block Copolymers: A Physiologically Stable Micro-/Nanocontainers of Water-Soluble Macromolecules. <i>Journal of the American Chemical Society</i> , 2006, 128, 5988-5989.	13.7	297
100	Rewritable phosphorescent paper by the control of competing kinetic and thermodynamic self-assembling events. <i>Nature Materials</i> , 2005, 4, 546-549.	27.5	560
101	Phosphorescent Organogels via π -Metallophilic π -Interactions for Reversible RGB Color Switching. <i>Journal of the American Chemical Society</i> , 2005, 127, 179-183.	13.7	426
102	Coordination Metallacycles of an Achiral Dendron Self-Assemble via Metal π -Metal Interaction To Form Luminescent Superhelical Fibers. <i>Journal of the American Chemical Society</i> , 2001, 123, 5608-5609.	13.7	202