

Kensuke Osada

List of Publications by Year in descending order

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97
papers

6,276
citations

71061

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104
all docs

104
docs citations

104
times ranked

6837
citing authors

#	ARTICLE	IF	CITATIONS
1	Block Copolymer Micelles in Nanomedicine Applications. <i>Chemical Reviews</i> , 2018, 118, 6844-6892.	23.0	925
2	Charge-Conversional Polyionic Complex Micelles—Efficient Nanocarriers for Protein Delivery into Cytoplasm. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5309-5312.	7.2	311
3	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.	6.6	297
4	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.	7.2	211
5	Glycaemic control boosts glucosylated nanocarrier crossing the BBB into the brain. <i>Nature Communications</i> , 2017, 8, 1001.	5.8	191
6	Targeted Polymeric Micelles for siRNA Treatment of Experimental Cancer by Intravenous Injection. <i>ACS Nano</i> , 2012, 6, 5174-5189.	7.3	186
7	Polymeric micelles from poly(ethylene glycol)-poly(amino acid) block copolymer for drug and gene delivery. <i>Journal of the Royal Society Interface</i> , 2009, 6, S325-39.	1.5	181
8	Therapeutic Vesicular Nanoreactors with Tumor-Specific Activation and Self-Destruction for Synergistic Tumor Ablation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14025-14030.	7.2	175
9	Block Copolymer Micellization as a Protection Strategy for DNA Origami. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5460-5464.	7.2	172
10	Three-layered polyplex micelle as a multifunctional nanocarrier platform for light-induced systemic gene transfer. <i>Nature Communications</i> , 2014, 5, 3545.	5.8	167
11	Enhanced endosomal escape of siRNA-incorporating hybrid nanoparticles from calcium phosphate and PEG-block charge-conversional polymer for efficient gene knockdown with negligible cytotoxicity. <i>Biomaterials</i> , 2011, 32, 3106-3114.	5.7	157
12	Bundled Assembly of Helical Nanostructures in Polymeric Micelles Loaded with Platinum Drugs Enhancing Therapeutic Efficiency against Pancreatic Tumor. <i>ACS Nano</i> , 2014, 8, 6724-6738.	7.3	141
13	Targeted gene delivery by polyplex micelles with crowded PEG palisade and cRGD moiety for systemic treatment of pancreatic tumors. <i>Biomaterials</i> , 2014, 35, 3416-3426.	5.7	121
14	Systemic delivery of messenger RNA for the treatment of pancreatic cancer using polyplex nanomicelles with a cholesterol moiety. <i>Biomaterials</i> , 2016, 82, 221-228.	5.7	121
15	Drug and Gene Delivery Based on Supramolecular Assembly of PEG-Polypeptide Hybrid Block Copolymers. , 0, , 113-153.		119
16	In Vivo Messenger RNA Introduction into the Central Nervous System Using Polyplex Nanomicelle. <i>PLoS ONE</i> , 2013, 8, e56220.	1.1	107
17	Pancreatic cancer therapy by systemic administration of VEGF siRNA contained in calcium phosphate/charge-conversional polymer hybrid nanoparticles. <i>Journal of Controlled Release</i> , 2012, 161, 868-874.	4.8	103
18	Polyplex micelles prepared from γ -cholesteryl PEG-polycation block copolymers for systemic gene delivery. <i>Biomaterials</i> , 2011, 32, 652-663.	5.7	101

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19	Tethered PEG Crowdedness Determining Shape and Blood Circulation Profile of Polyplex Micelle Gene Carriers. <i>Macromolecules</i> , 2013, 46, 6585-6592.	2.2	97
20	Effect of Polymer Structure on Micelles Formed between siRNA and Cationic Block Copolymer Comprising Thiols and Amidines. <i>Biomacromolecules</i> , 2011, 12, 3174-3185.	2.6	89
21	Enhanced in vivo Magnetic Resonance Imaging of Tumors by PEGylated Iron Oxide-Gold Core-Shell Nanoparticles with Prolonged Blood Circulation Properties. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1521-1528.	2.0	84
22	Quantized Folding of Plasmid DNA Condensed with Block Cationomer into Characteristic Rod Structures Promoting Transgene Efficacy. <i>Journal of the American Chemical Society</i> , 2010, 132, 12343-12348.	6.6	83
23	Bioactive Polymeric Metallosomes Self-Assembled through Block Copolymer-Metal Complexation. <i>Journal of the American Chemical Society</i> , 2012, 134, 13172-13175.	6.6	81
24	Polyplex Micelles with Phenylboronate/Gluconamide Cross-Linking in the Core Exerting Promoted Gene Transfection through Spatiotemporal Responsivity to Intracellular pH and ATP Concentration. <i>Journal of the American Chemical Society</i> , 2017, 139, 18567-18575.	6.6	71
25	Secondary-Structure-Driven Self-Assembly of Reactive Polypept(o)ides: Controlling Size, Shape, and Function of Core Cross-Linked Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9608-9613.	7.2	69
26	Influence of RNA Strand Rigidity on Polyion Complex Formation with Block Cationomers. <i>Macromolecular Rapid Communications</i> , 2016, 37, 486-493.	2.0	67
27	PEGylated Polyplex With Optimized PEG Shielding Enhances Gene Introduction in Lungs by Minimizing Inflammatory Responses. <i>Molecular Therapy</i> , 2012, 20, 1196-1203.	3.7	62
28	Optimized rod length of polyplex micelles for maximizing transfection efficiency and their performance in systemic gene therapy against stroma-rich pancreatic tumors. <i>Biomaterials</i> , 2014, 35, 5359-5368.	5.7	62
29	Ternary polyplex micelles with PEG shells and intermediate barrier to complexed DNA cores for efficient systemic gene delivery. <i>Journal of Controlled Release</i> , 2015, 209, 77-87.	4.8	62
30	Homo-cationomer integration into PEGylated polyplex micelle from block-cationomer for systemic anti-angiogenic gene therapy for fibrotic pancreatic tumors. <i>Biomaterials</i> , 2012, 33, 4722-4730.	5.7	61
31	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.	1.2	59
32	Polyplex micelle installing intracellular self-processing functionalities without free cationomers for safe and efficient systemic gene therapy through tumor vasculature targeting. <i>Biomaterials</i> , 2017, 113, 253-265.	5.7	55
33	Polyplex nanomicelle promotes hydrodynamic gene introduction to skeletal muscle. <i>Journal of Controlled Release</i> , 2010, 143, 112-119.	4.8	53
34	Effect of shear stress on structure and function of polyplex micelles from poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock_10 Tf 50,142 Td (g	5.7	53
35	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
36	Enhanced gene expression promoted by the quantized folding of pDNA within polyplex micelles. <i>Biomaterials</i> , 2012, 33, 325-332.	5.7	52

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37	Precise tuning of disulphide crosslinking in mRNA polyplex micelles for optimising extracellular and intracellular nuclease tolerability. <i>Journal of Drug Targeting</i> , 2019, 27, 670-680.	2.1	52
38	Polyplex Micelles with Double-Protective Compartments of Hydrophilic Shell and Thermoswitchable Palisade of Poly(oxazoline)-Based Block Copolymers for Promoted Gene Transfection. <i>Biomacromolecules</i> , 2016, 17, 354-361.	2.6	51
39	Elongation Behavior of a Main-Chain Smectic Liquid Crystalline Elastomer. <i>Macromolecules</i> , 2008, 41, 7566-7570.	2.2	50
40	Induced packaging of mRNA into polyplex micelles by regulated hybridization with a small number of cholesteryl RNA oligonucleotides directed enhanced in vivo transfection. <i>Biomaterials</i> , 2019, 197, 255-267.	5.7	50
41	Parallel and Perpendicular Orientations Observed in Shear Aligned SCALiquid Crystal of Main-Chain Polyester. <i>Macromolecules</i> , 2004, 37, 2527-2531.	2.2	44
42	Transient stealth coating of liver sinusoidal wall by anchoring two-armed PEG for retargeting nanomedicines. <i>Science Advances</i> , 2020, 6, eabb8133.	4.7	44
43	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.	2.2	42
44	Combination of chondroitin sulfate and polyplex micelles from Poly(ethylene Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (glycol)-poly gene transfection with reduced toxicity. <i>Journal of Controlled Release</i> , 2011, 155, 296-302.	4.8	41
45	Bundling mRNA Strands to Prepare Nanoassemblies with Enhanced Stability Towards RNase for In Vivo Delivery. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11360-11363.	7.2	40
46	Preliminary communication Thermotropic liquid crystals of polyesters having a mesogenic p,p'-bibenzoate unit X. Distinct orientation of molecules in a thin SmCA film stretched from isotropic melt, providing evidence for the biaxiality of the SmCA p. <i>Liquid Crystals</i> , 1998, 24, 477-480.	0.9	38
47	A Synthetic Block Copolymer Regulates S1 Nuclease Fragmentation of Supercoiled Plasmid DNA. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 3544-3548.	7.2	38
48	Poly(ethylene glycol) Crowding as Critical Factor To Determine pDNA Packaging Scheme into Polyplex Micelles for Enhanced Gene Expression. <i>Biomacromolecules</i> , 2017, 18, 36-43.	2.6	38
49	mRNA loading into ATP-responsive polyplex micelles with optimal density of phenylboronate ester crosslinking to balance robustness in the biological milieu and intracellular translational efficiency. <i>Journal of Controlled Release</i> , 2021, 330, 317-328.	4.8	37
50	Thermotropic Liquid Crystals of Main-Chain Polyesters Having a Mesogenic 4,4'-Biphenyldicarboxylate Unit XI. Smectic Liquid Crystalline Glass. <i>Polymer Journal</i> , 1998, 30, 589-595.	1.3	35
51	Bundling of mRNA strands inside polyion complexes improves mRNA delivery efficiency in vitro and in vivo. <i>Biomaterials</i> , 2020, 261, 120332.	5.7	35
52	Single-Stranded DNA-Packaged Polyplex Micelle as Adeno-Associated-Virus-Inspired Compact Vector to Systemically Target Stroma-Rich Pancreatic Cancer. <i>ACS Nano</i> , 2019, 13, 12732-12742.	7.3	34
53	Rod-Globule Transition of pDNA/PEG-Poly(Lysine) Polyplex Micelles Induced by a Collapsed Balance Between DNA Rigidity and PEG Crowdedness. <i>Small</i> , 2016, 12, 1193-1200.	5.2	31
54	Enhanced target recognition of nanoparticles by cocktail PEGylation with chains of varying lengths. <i>Chemical Communications</i> , 2016, 52, 1517-1519.	2.2	31

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55	Block Copolymer Micellization as a Protection Strategy for DNA Origami. <i>Angewandte Chemie</i> , 2017, 129, 5552-5556.	1.6	29
56	Preliminary communication Thermotropic liquid crystals in main chain polyesters having a mesogenic 4,4-biphenyldicarboxylate unit. 9. Chain folding in solid polyesters crystallized from smectic A. <i>Liquid Crystals</i> , 1997, 23, 453-456.	0.9	27
57	Intraperitoneal Administration of a Tumor-Associated Antigen SART3, CD40L, and GM-CSF Gene-Loaded Polyplex Micelle Elicits a Vaccine Effect in Mouse Tumor Models. <i>PLoS ONE</i> , 2014, 9, e101854.	1.1	27
58	Development of functional polyplex micelles for systemic gene therapy. <i>Polymer Journal</i> , 2014, 46, 469-475.	1.3	25
59	Feasibility of a subcutaneously administered block/homo-mixed polyplex micelle as a carrier for DNA vaccination in a mouse tumor model. <i>Journal of Controlled Release</i> , 2015, 206, 220-231.	4.8	25
60	Thermotropic Liquid Crystals of Main-Chain Polyesters with a Mesogenic 4,4-Biphenyldicarboxylate Unit XII. Unusual Molecular Orientation in Fibers Drawn from Smectic Melt. <i>Polymer Journal</i> , 1998, 30, 687-690.	1.3	24
61	NanoPARCEL: a method for controlling cellular behavior with external light. <i>Chemical Communications</i> , 2012, 48, 8380.	2.2	24
62	Chain-Folded Lamellar Structure in the Smectic H Phase of a Main-Chain Polyester. <i>Macromolecules</i> , 1998, 31, 8590-8594.	2.2	23
63	Temperature-Induced Reversible Distortion along Director Axis Observed for Monodomain Nematic Elastomer of Cross-Linked Main-Chain Polyester. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 1729-1733.	0.8	22
64	Effective transgene expression without toxicity by intraperitoneal administration of PEG-detachable polyplex micelles in mice with peritoneal dissemination. <i>Journal of Controlled Release</i> , 2012, 160, 542-551.	4.8	22
65	Toroidal Packaging of pDNA into Block Ionomer Micelles Exerting Promoted <i>in Vivo</i> Gene Expression. <i>Biomacromolecules</i> , 2015, 16, 2664-2671.	2.6	21
66	Two Distinct Types of Orientation Process Observed in Uniaxially Elongated Smectic LC Melt. <i>Macromolecules</i> , 2005, 38, 7337-7342.	2.2	20
67	Thermotropic Liquid Crystals of Main-Chain Polyesters having a Mesogenic 4,4-Biphenyldicarboxylate Unit, 14. <i>Macromolecular Chemistry and Physics</i> , 2004, 205, 1051-1057.	1.1	19
68	Thermotropic Liquid Crystals of Main-Chain Polyesters Having a Mesogenic 4,4-Biphenyldicarboxylate Unit. 13. Characteristic Deformation of Smectic Layer Structure Induced by Elongation of Uniaxially Oriented Fiber Composed of Smectic CA Glass. <i>Macromolecules</i> , 2000, 33, 7420-7425.	2.2	18
69	A facile amino-functionalization of poly(2-oxazoline)s distal end through sequential azido end-capping and Staudinger reactions. <i>European Polymer Journal</i> , 2017, 88, 553-561.	2.6	17
70	Bridging mRNA and Polycation Using RNA Oligonucleotide Derivatives Improves the Robustness of Polyplex Micelles for Efficient mRNA Delivery. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102016.	3.9	17
71	Size-controlled bimodal <i>in vivo</i> nanoprobe as near-infrared phosphors and positive contrast agents for magnetic resonance imaging. <i>Science and Technology of Advanced Materials</i> , 2021, 22, 160-172.	2.8	14
72	Sekundärstrukturbildung als Triebkraft für die Selbstorganisation reaktiver Polypept(o)ide: Steuerung von Größe, Form und Funktion kernvernetzter Nanostrukturen. <i>Angewandte Chemie</i> , 2017, 129, 9737-9742.	1.6	12

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73	Versatile DNA folding structures organized by cationic block copolymers. <i>Polymer Journal</i> , 2019, 51, 381-387.	1.3	11
74	PEGylation of mRNA by Hybridization of Complementary PEG-RNA Oligonucleotides Stabilizes mRNA without Using Cationic Materials. <i>Pharmaceutics</i> , 2021, 13, 800.	2.0	11
75	Structural Polymorphism of Single pDNA Condensates Elicited by Cationic Block Polyelectrolytes. <i>Polymers</i> , 2020, 12, 1603.	2.0	8
76	Inside Cover: Charge-Conversional Polyionic Complex Micelles-Efficient Nanocarriers for Protein Delivery into Cytoplasm (<i>Angew. Chem. Int. Ed.</i> 29/2009). <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5220-5220.	7.2	6
77	Dielectric Relaxation and Molecular Motion in the Chiral Main-Chain Liquid Crystalline Copolyester, BB-4*(2-Me)/BB-6. <i>Polymer Journal</i> , 2000, 32, 122-126.	1.3	5
78	Phase Behavior of Crystal Polymorphs of Thermotropic Poly(hexamethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td (4,4â€-biphenyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td (4,4â€-biphenyl)	2.2	5
79	A tadpole-shaped gene carrier with distinct phase segregation in a ternary polymeric micelle. <i>Soft Matter</i> , 2015, 11, 2718-2722.	1.2	5
80	Bundling mRNA Strands to Prepare Nanoâ€Assemblies with Enhanced Stability Towards RNase for Inâ€Vivo Delivery. <i>Angewandte Chemie</i> , 2019, 131, 11482-11485.	1.6	5
81	Ultrasound-Mediated Gene TransfectionIn vitro: Enhanced Efficiency by Complexation of Plasmid DNA. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 07GF29.	0.8	4
82	Smectic Characteristics of Main-Chain Polyesters as Elucidated from a Variation of Layer Thickness with Carbon Number of Aliphatic Spacer in a Wide Range, 5 to 20. <i>High Performance Polymers</i> , 1998, 10, 121-130.	0.8	4
83	Ultrasound-Mediated Gene TransfectionIn vitro: Enhanced Efficiency by Complexation of Plasmid DNA. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 07GF29.	0.8	3
84	Thermally Reversible Distortion Observed for Monodomain Nematic Elastomer of Cross-Linked Main-Chain Polyester. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 465, 193-202.	0.4	2
85	Micelles: Rod-to-Globule Transition of pDNA/PEG-Poly(l -Lysine) Polyplex Micelles Induced by a Collapsed Balance Between DNA Rigidity and PEG Crowdedness (<i>Small</i> 9/2016). <i>Small</i> , 2016, 12, 1244-1244.	5.2	2
86	Methods for the Self-integration of Megamolecular Biopolymers on the Drying Air-LC Interface. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	2
87	Chain Folding in the Smectic Phase of Main-Chain Polyesters.. <i>Kobunshi Ronbunshu</i> , 1999, 56, 184-194.	0.2	1
88	A Study of Micro-bubble Enhanced Sonoporation. , 2011, , .		1
89	593. Anti-Angiogenic Therapy for Pancreatic Cancer by Systemic Delivery of Messenger RNA Using Polyplex Nano Micelle. <i>Molecular Therapy</i> , 2016, 24, S234-S235.	3.7	1
90	Abstract 4401: Tumor-associated antigen gene-loading polyplex micelle is a promising platform for anti-cancer DNA vaccine. , 2015, , .		1

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91	Size effect of complexed plasmid DNA to gene transfection efficiency of microbubble-mediated sonoporation. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
92	Macromol. Rapid Commun. 6/2016. Macromolecular Rapid Communications, 2016, 37, 560-560.	2.0	0
93	Nanoscale self-assemblies of PEG-poly(amino acid) block copolymers: Polymeric micellar DDS. Drug Delivery System, 2016, 31, 283-292.	0.0	0
94	Happy Birthday Kataoka-sensei!. Macromolecular Bioscience, 2017, 17, 1600455.	2.1	0
95	Chain Folding of Main-Chain Polyesters in the Smectic A and CA Phases with a Liquid-Like Association of Biphenyl Mesogens within a Layer.. Journal of Fiber Science and Technology, 1999, 55, 502-510.	0.0	0
96	Nano-DDS and MRI. Drug Delivery System, 2021, 36, 265-276.	0.0	0
97	Undeliverable to deliverable, DNA delivery to pancreatic cancer cells. Drug Delivery System, 2022, 37, 35-44.	0.0	0