

Kensuke Osada

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.

97
papers

5,017
citations

39
h-index

70
g-index

104
ext. papers

5,618
ext. citations

9.4
avg, IF

5.65
L-index

#	Paper	IF	Citations
97	Undeliverable to deliverable, DNA delivery to pancreatic cancer cells. <i>Drug Delivery System</i> , 2022 , 37, 35-44	0	
96	Nano-DDS and MRI. <i>Drug Delivery System</i> , 2021 , 36, 265-276	0	
95	Size-controlled bimodal 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	7.1	4
94	PEGylation of mRNA by Hybridization of Complementary PEG-RNA Oligonucleotides Stabilizes mRNA without Using Cationic Materials. <i>Pharmaceutics</i> , 2021 , 13,	6.4	4
93	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	11.7	14
92	Bridging mRNA and Polycation Using RNA Oligonucleotide Derivatives Improves the Robustness of Polyplex Micelles for Efficient mRNA Delivery.. <i>Advanced Healthcare Materials</i> , 2021 , e2102016	10.1	4
91	Transient stealth coating of liver sinusoidal wall by anchoring two-armed PEG for retargeting nanomedicines. <i>Science Advances</i> , 2020 , 6, eabb8133	14.3	13
90	Bundling of mRNA strands inside polyion complexes improves mRNA delivery efficiency in vitro and in vivo. <i>Biomaterials</i> , 2020 , 261, 120332	15.6	22
89	Structural Polymorphism of Single pDNA Condensates Elicited by Cationic Block Polyelectrolytes. <i>Polymers</i> , 2020 , 12,	4.5	1
88	Bundling mRNA Strands to Prepare Nano-Assemblies with Enhanced Stability Towards RNase for In Vivo Delivery. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11360-11363	16.4	27
87	Bundling mRNA Strands to Prepare Nano-Assemblies with Enhanced Stability Towards RNase for In Vivo Delivery. <i>Angewandte Chemie</i> , 2019 , 131, 11482	3.6	
86	Control of DNA Packaging by Block Cationomers for Systemic Gene Delivery System 2019 , 1-23		
85	In vivo rendezvous of small nucleic acid drugs with charge-matched block cationomers to target cancers. <i>Nature Communications</i> , 2019 , 10, 1894	17.4	34
84	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	16.7	16
83	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	15.6	35
82	Versatile DNA folding structures organized by cationic block copolymers. <i>Polymer Journal</i> , 2019 , 51, 3812-3817	3.7	10
81	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	5.4	28

80	Block Copolymer Micelles in Nanomedicine Applications. <i>Chemical Reviews</i> , 2018 , 118, 6844-6892	68.1	608
79	Effect of shear stress on structure and function of polyplex micelles from poly(ethylene glycol)-poly(L-lysine) block copolymers as systemic gene delivery carrier. <i>Biomaterials</i> , 2017 , 126, 31-38	15.6	40
78	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	6.9	31
77	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	16.4	54
76	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	3.6	10
75	Block Copolymer Micellization as a Protection Strategy for DNA Origami. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5460-5464	16.4	120
74	Block Copolymer Micellization as a Protection Strategy for DNA Origami. <i>Angewandte Chemie</i> , 2017 , 129, 5552-5556	3.6	29
73	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	5.2	10
72	Glycaemic control boosts glucosylated nanocarrier crossing the BBB into the brain. <i>Nature Communications</i> , 2017 , 8, 1001	17.4	109
71	Therapeutic Vesicular Nanoreactors with Tumor-Specific Activation and Self-Destruction for Synergistic Tumor Ablation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14025-14030	16.4	131
70	Methods for the Self-integration of Megamolecular Biopolymers on the Drying Air-LC Interface. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	2
69	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	16.4	52
68	Polyplex micelle installing intracellular self-processing functionalities without free cationic groups for safe and efficient systemic gene therapy through tumor vasculature targeting. <i>Biomaterials</i> , 2017 , 113, 253-265	15.6	46
67	Nanoscale self-assemblies of PEG-poly(amino acid) block copolymers: Polymeric micellar DDS. <i>Drug Delivery System</i> , 2016 , 31, 283-292	0	
66	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> , 2016 , 12, 1193-200	11	28
65	Influence of RNA Strand Rigidity on Polyion Complex Formation with Block Cationic Polymers. <i>Macromolecular Rapid Communications</i> , 2016 , 37, 486-93	4.8	54
64	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, 354-61	6.9	42
63	Systemic delivery of messenger RNA for the treatment of pancreatic cancer using polyplex nanomicelles with a cholesterol moiety. <i>Biomaterials</i> , 2016 , 82, 221-8	15.6	95

62	Enhanced target recognition of nanoparticles by cocktail PEGylation with chains of varying lengths. <i>Chemical Communications</i> , 2016 , 52, 1517-9	5.8	29
61	Macromol. Rapid Commun. 6/2016. <i>Macromolecular Rapid Communications</i> , 2016 , 37, 560-560	4.8	
60	Micelles: Rod-to-Globule Transition of pDNA/PEG-Poly(L-Lysine) Polyplex Micelles Induced by a Collapsed Balance Between DNA Rigidity and PEG Crowdedness (Small 9/2016). <i>Small</i> , 2016 , 12, 1244-1244	11.1	1
59	Toroidal Packaging of pDNA into Block Ionomer Micelles Exerting Promoted in Vivo Gene Expression. <i>Biomacromolecules</i> , 2015 , 16, 2664-71	6.9	18
58	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	11.7	51
57	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, 220-31	11.7	22
56	A tadpole-shaped gene carrier with distinct phase segregation in a ternary polymeric micelle. <i>Soft Matter</i> , 2015 , 11, 2718-22	3.6	4
55	Development of functional polyplex micelles for systemic gene therapy. <i>Polymer Journal</i> , 2014 , 46, 469-475	4.7	22
54	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	5.5	31
53	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	15.6	40
52	Targeted gene delivery by polyplex micelles with crowded PEG palisade and cRGD moiety for systemic treatment of pancreatic tumors. <i>Biomaterials</i> , 2014 , 35, 3416-26	15.6	101
51	Three-layered polyplex micelle as a multifunctional nanocarrier platform for light-induced systemic gene transfer. <i>Nature Communications</i> , 2014 , 5, 3545	17.4	155
50	Bundled assembly of helical nanostructures in polymeric micelles loaded with platinum drugs enhancing therapeutic efficiency against pancreatic tumor. <i>ACS Nano</i> , 2014 , 8, 6724-38	16.7	121
49	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	3.7	21
48	Tethered PEG Crowdedness Determining Shape and Blood Circulation Profile of Polyplex Micelle Gene Carriers. <i>Macromolecules</i> , 2013 , 46, 6585-6592	5.5	89
47	In vivo messenger RNA introduction into the central nervous system using polyplex nanomicelle. <i>PLoS ONE</i> , 2013 , 8, e56220	3.7	93
46	Enhanced gene expression promoted by the quantized folding of pDNA within polyplex micelles. <i>Biomaterials</i> , 2012 , 33, 325-32	15.6	47
45	Homo-cationer integration into PEGylated polyplex micelle from block-cationer for systemic anti-angiogenic gene therapy for fibrotic pancreatic tumors. <i>Biomaterials</i> , 2012 , 33, 4722-30	15.6	52

44	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, 542-51	11.7	21
43	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, 868-74	11.7	90
42	Ultrasound-Mediated Gene Transfection In vitro: Enhanced Efficiency by Complexation of Plasmid DNA. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 07GF29	1.4	2
41	PEGylated polyplex with optimized PEG shielding enhances gene introduction in lungs by minimizing inflammatory responses. <i>Molecular Therapy</i> , 2012 , 20, 1196-203	11.7	55
40	NanoPARCEL: a method for controlling cellular behavior with external light. <i>Chemical Communications</i> , 2012 , 48, 8380-2	5.8	22
39	Bioactive polymeric metallosomes self-assembled through block copolymer-metal complexation. <i>Journal of the American Chemical Society</i> , 2012 , 134, 13172-5	16.4	73
38	Targeted polymeric micelles for siRNA treatment of experimental cancer by intravenous injection. <i>ACS Nano</i> , 2012 , 6, 5174-89	16.7	167
37	Ultrasound-Mediated Gene Transfection In vitro: Enhanced Efficiency by Complexation of Plasmid DNA. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 07GF29	1.4	2
36	Effect of polymer structure on micelles formed between siRNA and cationic block copolymer comprising thiols and amidines. <i>Biomacromolecules</i> , 2011 , 12, 3174-85	6.9	82
35	A Study of Micro-bubble Enhanced Sonoporation 2011 ,		1
34	Combination of chondroitin sulfate and polyplex micelles from Poly(ethylene glycol)-poly{N'-[N-(2-aminoethyl)-2-aminoethyl]aspartamide} block copolymer for prolonged in vivo gene transfection with reduced toxicity. <i>Journal of Controlled Release</i> , 2011 , 155, 296-302	11.7	38
33	Polyplex micelles prepared from Etholesteryl PEG-polycation block copolymers for systemic gene delivery. <i>Biomaterials</i> , 2011 , 32, 652-63	15.6	96
32	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, 3106-14	15.6	143
31	Quantized folding of plasmid DNA condensed with block cationer into characteristic rod structures promoting transgene efficacy. <i>Journal of the American Chemical Society</i> , 2010 , 132, 12343-8	16.4	77
30	Polyplex nanomicelle promotes hydrodynamic gene introduction to skeletal muscle. <i>Journal of Controlled Release</i> , 2010 , 143, 112-9	11.7	44
29	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, 1521-8	4.8	75
28	Charge-Conversional Polyionic Complex Micelles Efficient Nanocarriers for Protein Delivery into Cytoplasm. <i>Angewandte Chemie</i> , 2009 , 121, 5413-5416	3.6	49
27	Innentitelbild: Charge-Conversional Polyionic Complex Micelles Efficient Nanocarriers for Protein Delivery into Cytoplasm (Angew. Chem. 29/2009). <i>Angewandte Chemie</i> , 2009 , 121, 5322-5322	3.6	1

26	Charge-conversional polyionic complex micelles-efficient nanocarriers for protein delivery into cytoplasm. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 5309-12	16.4	271
25	Inside Cover: Charge-Conversional Polyionic Complex Micelles Efficient Nanocarriers for Protein Delivery into Cytoplasm (Angew. Chem. Int. Ed. 29/2009). <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 5220-5220	16.4	5
24	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 Suppl 3, S325-39	4.1	164
23	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	3.6	52
22	Elongation Behavior of a Main-Chain Smectic Liquid Crystalline Elastomer. <i>Macromolecules</i> , 2008 , 41, 7566-7570	5.5	42
21	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	0.5	2
20	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, 6085-8	16.4	193
19	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</i> , 2007 , 119, 6197-6200	3.6	20
18	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	1.4	21
17	Semipermeable polymer vesicle (PICsome) self-assembled in aqueous medium from a pair of oppositely charged block copolymers: physiologically stable micro-/nanocontainers of water-soluble macromolecules. <i>Journal of the American Chemical Society</i> , 2006 , 128, 5988-9	16.4	261
16	Two Distinct Types of Orientation Process Observed in Uniaxially Elongated Smectic LC Melt. <i>Macromolecules</i> , 2005 , 38, 7337-7342	5.5	18
15	A synthetic block copolymer regulates S1 nuclease fragmentation of supercoiled plasmid DNA. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 3544-8	16.4	35
14	A Synthetic Block Copolymer Regulates S1 Nuclease Fragmentation of Supercoiled Plasmid DNA. <i>Angewandte Chemie</i> , 2005 , 117, 3610-3614	3.6	6
13	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	2.6	16
12	Parallel and Perpendicular Orientations Observed in Shear Aligned SCA Liquid Crystal of Main-Chain Polyester. <i>Macromolecules</i> , 2004 , 37, 2527-2531	5.5	39
11	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	2.7	5
10	Phase Behavior of Crystal Polymorphs of Thermotropic Poly(hexamethylene 4,4'-biphenyldicarboxylate) under Hydrostatic Pressure. <i>Macromolecules</i> , 2000 , 33, 2456-2461	5.5	5
9	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	5.5	17

- 8 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
- 7 Preliminary communication Thermotropic liquid crystals of polyesters having a mesogenic p,p'-biphenyl unit X. Distinct orientation of molecules in a thin SmCA film stretched from isotropic melt, providing evidence for the biaxiality of the SmCA p. *Liquid Crystals*, **1998**, 24, 477-480 2.3 30
- 6 Chain-Folded Lamellar Structure in the Smectic H Phase of a Main-Chain Polyester. *Macromolecules*, **1998**, 31, 8590-8594 5.5 21
- 5 Thermotropic Liquid Crystals of Main-Chain Polyesters Having a Mesogenic 4,4'-Biphenyldicarboxylate Unit XI. Smectic Liquid Crystalline Glass. *Polymer Journal*, **1998**, 30, 589-595 2.7 26
- 4 Thermotropic Liquid Crystals of Main-Chain Polyesters with a Mesogenic 4,4'-Biphenyldicarboxylate Unit XII. Unusual Molecular Orientation in Fibers Drawn from Smectic Melt. *Polymer Journal*, **1998**, 30, 687-690 2.7 18
- 3 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. *High Performance Polymers*, **1998**, 10, 121-130 1.6 3
- 2 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. *Liquid Crystals*, **1997**, 23, 453-456 2.3 22
- 1 Drug and Gene Delivery Based on Supramolecular Assembly of PEG-Polypeptide Hybrid Block Copolymers 113-153