

Kensuke Osada

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2182856/kensuke-osada-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Block Copolymer Micelles in Nanomedicine Applications. <i>Chemical Reviews</i> , 2018 , 118, 6844-6892	68.1	608
96	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
95	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
94	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
93	Targeted polymeric micelles for siRNA treatment of experimental cancer by intravenous injection. <i>ACS Nano</i> , 2012 , 6, 5174-89	16.7	167
92	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
91	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
90	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
89	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
88	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
87	Block Copolymer Micellization as a Protection Strategy for DNA Origami. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5460-5464	16.4	120
86	Drug and Gene Delivery Based on Supramolecular Assembly of PEG-Polypeptide Hybrid Block Copolymers	11.3	113
85	Glycaemic control boosts glucosylated nanocarrier crossing the BBB into the brain. <i>Nature Communications</i> , 2017 , 8, 1001	17.4	109
84	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
83	Polyplex micelles prepared from E-cholesteryl PEG-polycation block copolymers for systemic gene delivery. <i>Biomaterials</i> , 2011 , 32, 652-63	15.6	96
82	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
81	In vivo messenger RNA introduction into the central nervous system using polyplex nanomicelle. <i>PLoS ONE</i> , 2013 , 8, e56220	3.7	93

80	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
79	Tethered PEG Crowdedness Determining Shape and Blood Circulation Profile of Polyplex Micelle Gene Carriers. <i>Macromolecules</i> , 2013 , 46, 6585-6592	5.5	89
78	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
77	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
76	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
75	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
74	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
73	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
72	Influence of RNA Strand Rigidity on Polyion Complex Formation with Block Cationers. <i>Macromolecular Rapid Communications</i> , 2016 , 37, 486-93	4.8	54
71	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
70	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
69	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
68	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
67	Charge-Conversional Polyionic Complex Micelles Efficient Nanocarriers for Protein Delivery into Cytoplasm. <i>Angewandte Chemie</i> , 2009 , 121, 5413-5416	3.6	49
66	Enhanced gene expression promoted by the quantized folding of pDNA within polyplex micelles. <i>Biomaterials</i> , 2012 , 33, 325-32	15.6	47
65	Polyplex micelle installing intracellular self-processing functionalities without free cationers for safe and efficient systemic gene therapy through tumor vasculature targeting. <i>Biomaterials</i> , 2017 , 113, 253-265	15.6	46
64	Polyplex nanomicelle promotes hydrodynamic gene introduction to skeletal muscle. <i>Journal of Controlled Release</i> , 2010 , 143, 112-9	11.7	44
63	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

62	Elongation Behavior of a Main-Chain Smectic Liquid Crystalline Elastomer. <i>Macromolecules</i> , 2008 , 41, 7566-7570	5.5	42
61	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
60	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
59	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
58	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
57	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
56	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
55	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
54	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
53	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
52	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. <i>Liquid Crystals</i> , 1998 , 24, 477-480	2.3	30
51	Block Copolymer Micellization as a Protection Strategy for DNA Origami. <i>Angewandte Chemie</i> , 2017 , 129, 5552-5556	3.6	29
50	Enhanced target recognition of nanoparticles by cocktail PEGylation with chains of varying lengths. <i>Chemical Communications</i> , 2016 , 52, 1517-9	5.8	29
49	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
48	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
47	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
46	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	2.7	26
45	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

44	Development of functional polyplex micelles for systemic gene therapy. <i>Polymer Journal</i> , 2014 , 46, 469-475	2.2	22
43	NanoPARCEL: a method for controlling cellular behavior with external light. <i>Chemical Communications</i> , 2012 , 48, 8380-2	5.8	22
42	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	2.3	22
41	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
40	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
39	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
38	Chain-Folded Lamellar Structure in the Smectic H Phase of a Main-Chain Polyester. <i>Macromolecules</i> , 1998 , 31, 8590-8594	5.5	21
37	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
36	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
35	Toroidal Packaging of pDNA into Block Ionomer Micelles Exerting Promoted in Vivo Gene Expression. <i>Biomacromolecules</i> , 2015 , 16, 2664-71	6.9	18
34	Two Distinct Types of Orientation Process Observed in Uniaxially Elongated Smectic LC Melt. <i>Macromolecules</i> , 2005 , 38, 7337-7342	5.5	18
33	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	2.7	18
32	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
31	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
30	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
29	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
28	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
27	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

26	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
25	Versatile DNA folding structures organized by cationic block copolymers. <i>Polymer Journal</i> , 2019 , 51, 381-387	3.7	10
24	A Synthetic Block Copolymer Regulates S1 Nuclease Fragmentation of Supercoiled Plasmid DNA. <i>Angewandte Chemie</i> , 2005 , 117, 3610-3614	3.6	6
23	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
22	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
21	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
20	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
19	Size-controlled bimodal nanopores 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
18	PEGylation of mRNA by Hybridization of Complementary PEG-RNA Oligonucleotides Stabilizes mRNA without Using Cationic Materials. <i>Pharmaceutics</i> , 2021 , 13,	6.4	4
17	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
16	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	1.6	3
15	Methods for the Self-integration of Megamolecular Biopolymers on the Drying Air-LC Interface. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	2
14	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
13	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
12	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
11	A Study of Micro-bubble Enhanced Sonoporation 2011 ,		1
10	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
9	Structural Polymorphism of Single pDNA Condensates Elicited by Cationic Block Polyelectrolytes. <i>Polymers</i> , 2020 , 12,	4.5	1

- 8 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). *Small*, **2016**, 12, 1244-1244 ¹¹ 1
- 7 Bundling mRNA Strands to Prepare Nano-Assemblies with Enhanced Stability Towards RNase for In Vivo Delivery. *Angewandte Chemie*, **2019**, 131, 11482 3.6
- 6 Control of DNA Packaging by Block Cationomers for Systemic Gene Delivery System **2019**, 1-23
- 5 Nanoscale self-assemblies of PEG-poly(amino acid) block copolymers: Polymeric micellar DDS. *Drug Delivery System*, **2016**, 31, 283-292 0
- 4 Nano-DDS and MRI. *Drug Delivery System*, **2021**, 36, 265-276 0
- 3 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
- 2 Macromol. Rapid Commun. 6/2016. *Macromolecular Rapid Communications*, **2016**, 37, 560-560 4.8
- 1 Undeliverable to deliverable, DNA delivery to pancreatic cancer cells. *Drug Delivery System*, **2022**, 37, 35-44 0