

# Yasutaka Anraku

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

3,207  
citations

172457

29  
h-index

182427

51  
g-index

57  
all docs

57  
docs citations

57  
times ranked

3886  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanomaterial-based blood-brain-barrier (BBB) crossing strategies. <i>Biomaterials</i> , 2019, 224, 119491.	11.4	306
2	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
3	Glycaemic control boosts glucosylated nanocarrier crossing the BBB into the brain. <i>Nature Communications</i> , 2017, 8, 1001.	12.8	191
4	Therapeutic Vesicular Nanoreactors with Tumor-Specific Activation and Self-Destruction for Synergistic Tumor Ablation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14025-14030.	13.8	175
5	Therapeutic Polymersome Nanoreactors with Tumor-Specific Activable Cascade Reactions for Cooperative Cancer Therapy. <i>ACS Nano</i> , 2019, 13, 2357-2369.	14.6	174
6	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
7	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
8	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
9	Blood-brain barrier-penetrating siRNA nanomedicine for Alzheimer's disease therapy. <i>Science Advances</i> , 2020, 6, .	10.3	135
10	Systemic Brain Delivery of Antisense Oligonucleotides across the Blood-Brain Barrier with a Glucose-Coated Polymeric Nanocarrier. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8173-8180.	13.8	113
11	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
12	Smart Multilayered Assembly for Biocompatible siRNA Delivery Featuring Dissolvable Silica, Endosome-Disrupting Polycation, and Detachable PEG. <i>ACS Nano</i> , 2012, 6, 6693-6705.	14.6	92
13	Self-Boosting Catalytic Nanoreactors Integrated with Triggerable Crosslinking Membrane Networks for Initiation of Immunogenic Cell Death by Pyroptosis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13526-13530.	13.8	89
14	Targeting nanoparticles to the brain by exploiting the blood-brain barrier impermeability to selectively label the brain endothelium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 19141-19150.	7.1	82
15	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
16	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
17	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
18	Dual-Sensitive Nanomicelles Enhancing Systemic Delivery of Therapeutically Active Antibodies Specifically into the Brain. <i>ACS Nano</i> , 2020, 14, 6729-6742.	14.6	65

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19	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
20	Glucose transporter 1-mediated vascular translocation of nanomedicines enhances accumulation and efficacy in solid tumors. <i>Journal of Controlled Release</i> , 2019, 301, 28-41.	9.9	56
21	Enzyme-Loaded Polyion Complex Vesicles as in Vivo Nanoreactors Working Sustainably under the Blood Circulation: Characterization and Functional Evaluation. <i>Biomacromolecules</i> , 2017, 18, 1189-1196.	5.4	54
22	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
23	Functionalization of single-walled carbon nanotube by the covalent modification with polymer chains. <i>Journal of Colloid and Interface Science</i> , 2007, 306, 28-33.	9.4	48
24	Therapeutic Vesicular Nanoreactors with Tumor-Specific Activation and Self-Destruction for Synergistic Tumor Ablation. <i>Angewandte Chemie</i> , 2017, 129, 14213-14218.	2.0	45
25	Sensing Capabilities of Colloidal Gold Monolayer Modified with a Phenylboronic Acid-Carrying Polymer Brush. <i>Biomacromolecules</i> , 2006, 7, 1065-1071.	5.4	44
26	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
27	Enzymatically Transformable Polymersome-Based Nanotherapeutics to Eliminate Minimal Relapsable Cancer. <i>Advanced Materials</i> , 2021, 33, e2105254.	21.0	39
28	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
29	Conjugation of glucosylated polymer chains to checkpoint blockade antibodies augments their efficacy and specificity for glioblastoma. <i>Nature Biomedical Engineering</i> , 2021, 5, 1274-1287.	22.5	33
30	Enhanced target recognition of nanoparticles by cocktail PEGylation with chains of varying lengths. <i>Chemical Communications</i> , 2016, 52, 1517-1519.	4.1	31
31	Systemically Injectable Enzyme-Loaded Polyion Complex Vesicles as In Vivo Nanoreactors Functioning in Tumors. <i>Angewandte Chemie</i> , 2016, 128, 570-575.	2.0	28
32	Recognition of sugars on surface-bound cap-shaped gold particles modified with a polymer brush. <i>Colloids and Surfaces B: Biointerfaces</i> , 2007, 57, 61-68.	5.0	27
33	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
34	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
35	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
36	Self-Boosting Catalytic Nanoreactors Integrated with Triggerable Crosslinking Membrane Networks for Initiation of Immunogenic Cell Death by Pyroptosis. <i>Angewandte Chemie</i> , 2020, 132, 13628-13632.	2.0	16

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37	Relationship between Bulk Physicochemical Properties and Surface Wettability of Hydrogels with Homogeneous Network Structure. <i>Langmuir</i> , 2020, 36, 5554-5562.	3.5	15
38	Interaction Between Polymer Chains Covalently Fixed to Single-Walled Carbon Nanotubes. <i>Macromolecular Chemistry and Physics</i> , 2006, 207, 812-819.	2.2	13
39	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
40	Vascular Bursts Act as a Versatile Tumor Vessel Permeation Route for Blood-Borne Particles and Cells. <i>Small</i> , 2021, 17, e2103751.	10.0	11
41	Systemic Brain Delivery of Antisense Oligonucleotides across the Blood-Brain Barrier with a Glucose-Coated Polymeric Nanocarrier. <i>Angewandte Chemie</i> , 2020, 132, 8250-8257.	2.0	10
42	Effect of Mixing Ratio of Oppositely Charged Block Copolymers on Polyion Complex Micelles for In Vivo Application. <i>Polymers</i> , 2021, 13, 5.	4.5	10
43	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
44	Apoptotic Cell-Inspired Polymeric Particles for Controlling Microglial Inflammation toward Neurodegenerative Disease Treatment. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 5705-5713.	5.2	8
45	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
46	Resistance of surface-confined telomers with pendent glucosylurea groups against non-specific adsorption of proteins. <i>Colloids and Surfaces B: Biointerfaces</i> , 2007, 56, 188-196.	5.0	4
47	Stabilization of bicelles using metal-binding peptide for extended blood circulation. <i>Chemical Communications</i> , 2022, 58, 5164-5167.	4.1	3
48	Effect of PEGylation on the Drug Release Performance and Hemocompatibility of Photoresponsive Drug-Loading Platform. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6686.	4.1	3
49	P2 <sup>054</sup> : MOLECULAR IMAGING AND TREATMENT OF ALZHEIMER'S DISEASE BY DEVELOPING AMYLOID <sup>β</sup> OLIGOMER ANTIBODIES THAT CROSS THE BLOOD-BRAIN BARRIER. <i>Alzheimer's and Dementia</i> , 2018, 14, P687.	0.8	1
50	Design of a photocleavable drug binding platform for a novel remotely controllable drug coated balloon. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 62, 102375.	3.0	1
51	Phosphorylcholine-Installed Nanocarriers Target Pancreatic Cancer Cells through the Phospholipid Transfer Protein. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 4439-4445.	5.2	1
52	Mechanically interlocked molecular architectures of valinomycin as cancer targeted prodrugs. <i>Nano Select</i> , 0, , .	3.7	1
53	Anti-HMGB1 antibody attenuates vascular hyperpermeability and promotes wound healing during ischemia-reperfusion injury model in mouse skin. <i>Journal of Dermatological Science</i> , 2013, 69, e59.	1.9	0
54	Quantitative Evaluation of Homogeneous Hydrogel Surface Wettability. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0

#	ARTICLE	IF	CITATIONS
55	Control of Degradation Properties of Polymer Gel. ECS Meeting Abstracts, 2018, , .	0.0	0
56	Development of innovative therapeutic techniques for intractable central nerve system disease. Drug Delivery System, 2019, 34, 216-217.	0.0	0