

# Kanta Tsumoto

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

1,456  
citations

361413

20  
h-index

330143

37  
g-index

65  
all docs

65  
docs citations

65  
times ranked

1436  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gene Expression within Cell-Sized Lipid Vesicles. <i>ChemBioChem</i> , 2003, 4, 1172-1175.	2.6	292
2	Efficient formation of giant liposomes through the gentle hydration of phosphatidylcholine films doped with sugar. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 68, 98-105.	5.0	138
3	Giant Liposome as a Biochemical Reactor: Transcription of DNA and Transportation by Laser Tweezers. <i>Langmuir</i> , 2001, 17, 7225-7228.	3.5	118
4	Future perspectives of therapeutic monoclonal antibodies. <i>Immunotherapy</i> , 2019, 11, 119-127.	2.0	85
5	Hybridoma technologies for antibody production. <i>Immunotherapy</i> , 2011, 3, 371-380.	2.0	84
6	Giant DNA molecules exhibit on/off switching of transcriptional activity through conformational transition. <i>Biophysical Chemistry</i> , 2003, 106, 23-29.	2.8	66
7	Intra-molecular phase segregation in a single polyelectrolyte chain. <i>Journal of Chemical Physics</i> , 2001, 114, 6942-6949.	3.0	54
8	Specific Spatial Localization of Actin and DNA in a Water/Water Microdroplet: Self-Emergence of a Cell-Like Structure. <i>ChemBioChem</i> , 2018, 19, 1370-1374.	2.6	37
9	Cadherin-integrated liposomes with potential application in a drug delivery system. <i>Biomaterials</i> , 2011, 32, 9899-9907.	11.4	33
10	Enhancement and inhibition of DNA transcriptional activity by spermine: A marked difference between linear and circular templates. <i>FEBS Letters</i> , 2005, 579, 5119-5122.	2.8	32
11	All-or-none switching of transcriptional activity on single DNA molecules caused by a discrete conformational transition. <i>Applied Physics Letters</i> , 2005, 86, 223901.	3.3	30
12	Unbinding of lipid bilayers induced by osmotic pressure in relation to unilamellar vesicle formation. <i>Europhysics Letters</i> , 2007, 80, 48002.	2.0	30
13	Crowding by Anionic Nanoparticles Causes DNA Double-Strand Instability and Compaction. <i>Journal of Physical Chemistry B</i> , 2014, 118, 1256-1262.	2.6	30
14	Confocal microscopic observation of fusion between baculovirus budded virus envelopes and single giant unilamellar vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 1625-1631.	2.6	28
15	Development of a Novel Preparation Method of Recombinant Proteoliposomes Using Baculovirus Gene Expression Systems. <i>Journal of Biochemistry</i> , 2008, 144, 763-770.	1.7	26
16	Opposite effect of polyamines on In vitro gene expression: Enhancement at low concentrations but inhibition at high concentrations. <i>PLoS ONE</i> , 2018, 13, e0193595.	2.5	26
17	Self-Emergent Protocells Generated in an Aqueous Solution with Binary Macromolecules through Liquid-Liquid Phase Separation. <i>ChemBioChem</i> , 2020, 21, 3323-3328.	2.6	24
18	Folding transition of large DNA completely inhibits the action of a restriction endonuclease as revealed by single-chain observation. <i>FEBS Letters</i> , 2002, 530, 143-146.	2.8	22

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19	Preparation of connexin43-integrated giant Liposomes by a baculovirus expression-liposome fusion method. <i>Biotechnology and Bioengineering</i> , 2010, 107, 836-843.	3.3	22
20	Genetic Nanomedicine and Tissue Engineering. <i>Medical Clinics of North America</i> , 2007, 91, 889-898.	2.5	20
21	Monoclonal antibodies based on hybridoma technology. <i>Pharmaceutical Patent Analyst</i> , 2013, 2, 249-263.	1.1	20
22	Does DNA Exert an Active Role in Generating Cell-Sized Spheres in an Aqueous Solution with a Crowding Binary Polymer?. <i>Life</i> , 2015, 5, 459-466.	2.4	19
23	RNA switches the higher-order structure of DNA. <i>Biophysical Chemistry</i> , 1999, 82, 1-8.	2.8	16
24	A reverse-phase method revisited: Rapid high-yield preparation of giant unilamellar vesicles (GUVs) using emulsification followed by centrifugation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 546, 74-82.	4.7	16
25	Aqueous/Aqueous Micro Phase Separation: Construction of an Artificial Model of Cellular Assembly. <i>Frontiers in Chemistry</i> , 2019, 7, 44.	3.6	16
26	Diagnosis and discrimination of autoimmune Graves' disease and Hashimoto's disease using thyroid-stimulating hormone receptor-containing recombinant proteoliposomes. <i>Journal of Bioscience and Bioengineering</i> , 2009, 108, 551-556.	2.2	14
27	NTP Concentration Switches Transcriptional Activity by Changing the Large-Scale Structure of DNA. <i>Biomacromolecules</i> , 2003, 4, 1121-1125.	5.4	13
28	pH Switching That Crosses over the Isoelectric Point (pI) Can Improve the Entrapment of Proteins within Giant Liposomes by Enhancing Protein-Membrane Interaction. <i>Langmuir</i> , 2014, 30, 554-563.	3.5	12
29	Recombinant Proteoliposomes Prepared Using Baculovirus Expression Systems. <i>Methods in Enzymology</i> , 2009, 465, 95-109.	1.0	11
30	Nonspecific characteristics of macromolecules create specific effects in living cells. <i>Biophysical Reviews</i> , 2020, 12, 425-434.	3.2	10
31	Recent Advances in Antigen-Based Generation of Monoclonal Antibodies. <i>Current Immunology Reviews</i> , 2010, 6, 56-61.	1.2	9
32	Membrane fusion between baculovirus budded virus-enveloped particles and giant liposomes generated using a droplet-transfer method for the incorporation of recombinant membrane proteins. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 155, 248-256.	5.0	9
33	Monitoring of membrane collapse and enzymatic reaction with single giant liposomes embedded in agarose gel. <i>Colloid and Polymer Science</i> , 2011, 289, 1337-1346.	2.1	8
34	Engineering of recombinant human Fcγ receptor I by directed evolution. <i>Protein Engineering, Design and Selection</i> , 2012, 25, 835-842.	2.1	7
35	The binding of soluble recombinant human Fcγ <sub>3</sub> receptor I for human immunoglobulin G is conferred by its first and second extracellular domains. <i>Molecular Immunology</i> , 2013, 54, 403-407.	2.2	7
36	Membrane fusion and infection abilities of baculovirus virions are preserved during freezing and thawing in the presence of trehalose. <i>Bioscience, Biotechnology and Biochemistry</i> , 2020, 84, 686-694.	1.3	6

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37	Polymerization/depolymerization of actin cooperates with the morphology and stability of cell-sized droplets generated in a polymer solution under a depletion effect. <i>Journal of Chemical Physics</i> , 2021, 155, 075101.	3.0	6
38	Incorporation of adenylate cyclase into membranes of giant liposomes using membrane fusion with recombinant baculovirus-budded virus particles. <i>Biotechnology Letters</i> , 2014, 36, 1253-1261.	2.2	5
39	The method used to culture host cells (Sf9 cells) can affect the qualities of baculovirus budding particles expressing recombinant proteins. <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 445-451.	1.3	5
40	The Aqueous Two Phase System (ATPS) Deserves Plausible Real-World Modeling for the Structure and Function of Living Cells. <i>MRS Advances</i> , 2017, 2, 2407-2413.	0.9	5
41	Switching of Higher-Order Structure of DNA and Gene Expression.. <i>Seibutsu Butsuri</i> , 2002, 42, 179-184.	0.1	5
42	Water-in-Water Droplets Selectively Uptake Self-Assembled DNA Nano/Microstructures: a Versatile Method for Purification in DNA Nanotechnology. <i>ChemBioChem</i> , 2022, 23, .	2.6	5
43	Membrane Fusion between a Giant Vesicle and Small Enveloped Particles: Possibilities for the Application to Construct Model Cells. , 2006, , .		4
44	Efficient expression of recombinant soluble human FcγRI in mammalian cells and its characterization. <i>Protein Expression and Purification</i> , 2012, 82, 155-161.	1.3	4
45	Huntingtin Polyglutamine-Dependent Protein Aggregation in Reconstituted Cells. <i>ACS Synthetic Biology</i> , 2018, 7, 377-383.	3.8	4
46	Display of Recombinant Membrane Receptors on Giant Liposomes: Attempt to Construct a Cell Model with Integrated Membrane Protein Systems. , 2007, , .		3
47	Optimization of stereospecific targeting technique for selective production of monoclonal antibodies against native ephrin type-A receptor 2. <i>Journal of Immunological Methods</i> , 2020, 484-485, 112813.	1.4	3
48	Mechanism of Budded Virus Envelope Fusion into a Planar Bilayer Lipid Membrane on a SiO <sub>2</sub> Substrate. <i>Langmuir</i> , 2022, , .	3.5	3
49	Reconstitution and Microscopic Observation of G Protein Subunits on Giant Liposomes: Attempt to Construct a Cell Model with Functional Membrane Protein Components. , 2008, , .		2
50	G protein coupled receptors (GPCRs) reconstituted on recombinant proteoliposomes using baculovirus-liposome membrane fusion. , 2009, , .		2
51	B-cell receptor-based multitargeting method for simultaneous production of novel multiple monoclonal antibodies. <i>Journal of Bioscience and Bioengineering</i> , 2019, 128, 578-584.	2.2	2
52	Conformation-specific monoclonal antibodies recognizing the native structure of G protein-coupled receptor (GPCR). <i>International Immunopharmacology</i> , 2021, 98, 107872.	3.8	2
53	Construction of an In Vitro Model of a Living Cellular System. , 2011, , 173-193.		2
54	Electrofusion of cells with different diameters by generating asymmetrical electric field in the microwell array. <i>Analytical Sciences</i> , 2022, 38, 235-239.	1.6	2

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55	Artificial Model Cell as a Micro-Robot. Journal of the Robotics Society of Japan, 2007, 25, 186-190.	0.1	1
56	Class-Switching of B Lymphocytes by DNA and Cell Immunization for Stereospecific Monoclonal Antibodies against Native GPCR. Immuno, 2021, 1, 432-441.	1.5	1
57	DNA conformation and transcriptional properties: a higher-order of silence.. , 0, , .		0
58	1P-185 Preparation and function of connexin giant proteoliposomes(Biol & Artifi memb.:Structure) Tj ETQq0 0 0 rgBT /Overlock 10 49, S91.	0.1	0
59	2P243 Preparation and function of cadhein-integrated liposomes using baculovirus-liposome fusion method(The 48th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsurei, 2010, 50, S125.	0.1	0
60	Giant liposomes as microcapsules with large trapping volumes: Downsizing through various membrane filters and analysis with a calcein quenching method. , 2011, , .		0
61	2P218 Self-Emergent Cell-Sized Sphere Entrapping DNA through Micro Phase-Segregation(13B.) Tj ETQq1 1 0.784314 rgBT /Overlock 10 0.1	0.1	0