Masahito Yamazaki

List of Publications by Year in Descending Order

112 papers	3,222 citations	34 h-index	53 g-index
119 ext. papers	3,586 ext. citations	3.5 avg, IF	5.41 L-index

#	Paper	IF	Citations
112	A Single GUV Method for Revealing the Action of Cell-Penetrating Peptides in Biomembranes. *Methods in Molecular Biology*, **2022**, 2383, 167-179	1.4	0
111	Effect of membrane potential on entry of lactoferricin B-derived 6-residue antimicrobial peptide into single cells and lipid vesicles. *Journal of Bacteriology*, **2021**,	3.5	3
110	Translocation of the nonlabeled antimicrobial peptide PGLa across lipid bilayers and its entry into vesicle lumens without pore formation. *Biochimica Et Biophysica Acta - Biomembranes*, **2021**, 1863, 183680	3.8	1
109	Sulfur-doped carbon dots@polydopamine-functionalized magnetic silver nanocubes for dual-modality detection of norovirus. *Biosensors and Bioelectronics*, **2021**, 193, 113540	11.8	6
108	Fluorescent and electrochemical dual-mode detection of Chikungunya virus E1 protein using fluorophore-embedded and redox probe-encapsulated liposomes. *Mikrochimica Acta*, **2020**, 187, 674	5.8	7
107	Effect of membrane potential on pore formation by the antimicrobial peptide magainin 2 in lipid bilayers. *Biochimica Et Biophysica Acta - Biomembranes*, **2020**, 1862, 183381	3.8	7
106	Membrane Tension in Negatively Charged Lipid Bilayers in a Buffer under Osmotic Pressure. *Journal of Physical Chemistry B*, **2020**, 124, 5588-5599	3.4	8
105	Action of antimicrobial peptides and cell-penetrating peptides on membrane potential revealed by the single GUV method. *Biophysical Reviews*, **2020**, 12, 339-348	3.7	12
104	Use of Target-Specific Liposome and Magnetic Nanoparticle Conjugation for the Amplified Detection of Norovirus.. *ACS Applied Bio Materials*, **2020**, 3, 3560-3568	4.1	4
103	Role of Membrane Potential on Entry of Cell-Penetrating Peptide Transportan 10 into Single Vesicles. *Biophysical Journal*, **2020**, 118, 57-69	2.9	15
102	Detection of the Entry of Nonlabeled Transportan 10 into Single Vesicles. *Biochemistry*, **2020**, 59, 1780-1790	3.2	2
101	Membrane potential is vital for rapid permeabilization of plasma membranes and lipid bilayers by the antimicrobial peptide lactoferricin B. *Journal of Biological Chemistry*, **2019**, 294, 10449-10462	5.4	14
100	Effect of Transmembrane Asymmetric Distribution of Lipids and Peptides on Lipid Bilayers. *Journal of Physical Chemistry B*, **2019**, 123, 4645-4652	3.4	2
99	The role of membrane tension in the action of antimicrobial peptides and cell-penetrating peptides in biomembranes. *Biophysical Reviews*, **2019**, 11, 431-448	3.7	18
98	Elementary Processes and Mechanisms of Interactions of Antimicrobial Peptides with Membranes-Single Giant Unilamellar Vesicle Studies. *Advances in Experimental Medicine and Biology* , **2019**, 1117, 17-32	3.6	6
97	Elementary processes for the entry of cell-penetrating peptides into lipid bilayer vesicles and bacterial cells. *Applied Microbiology and Biotechnology*, **2018**, 102, 3879-3892	5.7	28
96	Continuous detection of entry of cell-penetrating peptide transportan 10 into single vesicles. *Chemistry and Physics of Lipids*, **2018**, 212, 120-129	3.7	19

95	Mechanism of Initial Stage of Pore Formation Induced by Antimicrobial Peptide Magainin 2. *Langmuir*, **2018**, 34, 3349-3362	4	47
94	Elementary processes of antimicrobial peptide PGLa-induced pore formation in lipid bilayers. *Biochimica Et Biophysica Acta - Biomembranes*, **2018**, 1860, 2262-2271	3.8	10
93	Effect of membrane tension on transbilayer movement of lipids. *Journal of Chemical Physics*, **2018**, 148, 245101	3.9	10
92	Effects of Mechanical Properties of Lipid Bilayers on the Entry of Cell-Penetrating Peptides into Single Vesicles. *Langmuir*, **2017**, 33, 2433-2443	4	34
91	Low-pH-Induced Lamellar to Bicontinuous Primitive Cubic Phase Transition in Dioleoylphosphatidylserine/Monoolein Membranes. *Langmuir*, **2017**, 33, 12487-12496	4	10
90	Entry of a Six-Residue Antimicrobial Peptide Derived from Lactoferricin B into Single Vesicles and Escherichia coli Cells without Damaging their Membranes. *Biochemistry*, **2017**, 56, 4419-4431	3.2	26
89	Effects of Lipid Composition on the Entry of Cell-Penetrating Peptide Oligoarginine into Single Vesicles. *Biochemistry*, **2016**, 55, 4154-65	3.2	41
88	Experimental Estimation of Membrane Tension Induced by Osmotic Pressure. *Biophysical Journal*, **2016**, 111, 2190-2201	2.9	46
87	Activation Energy of the Low-pH-Induced Lamellar to Bicontinuous Cubic Phase Transition in Dioleoylphosphatidylserine/Monoolein. *Langmuir*, **2016**, 32, 1327-37	4	13
86	Analysis of constant tension-induced rupture of lipid membranes using activation energy. *Physical Chemistry Chemical Physics*, **2016**, 18, 13487-95	3.6	30
85	Stretch-activated pore of the antimicrobial peptide, magainin 2. *Langmuir*, **2015**, 31, 3391-401	4	76
84	Antimicrobial Peptide Lactoferricin B-Induced Rapid Leakage of Internal Contents from Single Giant Unilamellar Vesicles. *Biochemistry*, **2015**, 54, 5802-14	3.2	19
83	Electrostatic interaction effects on tension-induced pore formation in lipid membranes. *Physical Review E*, **2015**, 92, 012708	2.4	30
82	Communication: Activation energy of tension-induced pore formation in lipid membranes. *Journal of Chemical Physics*, **2015**, 143, 081103	3.9	32
81	A model for targeting colon carcinoma cells using single-chain variable fragments anchored on virus-like particles via glycosyl phosphatidylinositol anchor. *Pharmaceutical Research*, **2014**, 31, 2166-77	4.5	9
80	The single GUV method for revealing the functions of antimicrobial, pore-forming toxin, and cell-penetrating peptides or proteins. *Physical Chemistry Chemical Physics*, **2014**, 16, 15752-67	3.6	61
79	Entry of cell-penetrating peptide transportan 10 into a single vesicle by translocating across lipid membrane and its induced pores. *Biochemistry*, **2014**, 53, 386-96	3.2	57
78	Initial step of pH-jump-induced lamellar to bicontinuous cubic phase transition in dioleoylphosphatidylserine/monoolein. *Langmuir*, **2014**, 30, 8131-40	4	16

77	2P215 Initial Step of Low pH-Induced Structural Transition from Unilamellar Vesicles of DOPS/MO to Inverse Bicontinuous Cubic Phase(13B. Biological & Artificial membrane:Dynamics,Poster). *Seibutsu Butsuri*, **2014**, 54, S230	0	
76	Rate constant of tension-induced pore formation in lipid membranes. *Langmuir*, **2013**, 29, 3848-52	4	51
75	1P215 Initial Step of Low pH-Induced Lamellar to Bicontinuous Cubic Phase Transition in Dioleoylphosphatidylserine/Monoolein(13B.Biological & Artifical membrane: Dynamics,Poster,The 51st Annual Meeting of the Biophysical Society of Japan). *Seibutsu Butsuri*, **2013**, 53, S141	0	
74	1P218 Permeation of Cell-Penetrating Peptide Transportan 10 through Lipid Membranes before Pore Formation(13B. Biological & Artifical membrane: Dynamics,Poster). *Seibutsu Butsuri*, **2013**, 53, S142	0	
73	1P216 Effects of Mechanical Properties of Lipid Membranes on Antimicrobial Peptide Magainin 2-Induced Pore Formation(13B.Biological & Artifical membrane: Dynamics,Poster,The 51st Annual Meeting of the Biophysical Society of Japan). *Seibutsu Butsuri*, **2013**, 53, S141	0	
72	1P217 Effects of Electrostatic Interactions on Rate Constants of Tension-Induced Pore Formation in Single GUVs(13B.Biological & Artifical membrane: Dynamics,Poster,The 51st Annual Meeting of the Biophysical Society of Japan). *Seibutsu Butsuri*, **2013**, 53, S141	0	
71	The single-giant unilamellar vesicle method reveals lysenin-induced pore formation in lipid membranes containing sphingomyelin. *Biochemistry*, **2012**, 51, 5160-72	3.2	39
70	2A1536 Dependence of Lysenin-Induced Membrane Permeability on Cholesterol and Lysenin Concentration in the Membrane Surface(Biol & Artifi memb 2: Structure & Property, Dynamics, Signal transduction,The 48th Annual Meeting of the Biophysical Society of Japan). *Seibutsu Butsuri*,	0	
69	2A1548 Effects of Binding of Magainin 2 to Lipid Membranes on Surface Area and Volume of Single GUVs(Biol & Artifi memb 2: Structure & Property, Dynamics, Signal transduction,The 48th Annual Meeting of the Biophysical Society of Japan). *Seibutsu Butsuri*, **2011**, 51, S74	0	
68	Kinetics of low pH-induced lamellar to bicontinuous cubic phase transition in dioleoylphosphatidylserine□monoolein. *Journal of Chemical Physics*, **2011**, 134, 145102	3.9	15
67	Spontaneous insertion of lipopolysaccharide into lipid membranes from aqueous solution. *Chemistry and Physics of Lipids*, **2011**, 164, 166-74	3.7	25
66	A membrane filtering method for the purification of giant unilamellar vesicles. *Chemistry and Physics of Lipids*, **2011**, 164, 351-8	3.7	75
65	Phase Transition in Di-oleoylphosphatidylglycerol/Monoolein Membranes due to Interactions of Positively Charged Peptides at their Lipid Membrane-Interface. *Bangladesh Journal of Scientific and Industrial Research*, **2010**, 45, 219-224	0.5	
64	Kinetic pathway of antimicrobial peptide magainin 2-induced pore formation in lipid membranes. *Journal of Physical Chemistry B*, **2010**, 114, 12018-26	3.4	105
63	Chapter 7 Transformation Between Liposomes and Cubic Phases of Biological Lipid Membranes Induced by Modulation of Electrostatic Interactions. *Behavior Research Methods*, **2009**, 163-209	6.1	9
62	Magainin 2-induced pore formation in the lipid membranes depends on its concentration in the membrane interface. *Journal of Physical Chemistry B*, **2009**, 113, 4846-52	3.4	111
61	High affinity Zn2+ inhibitory site(s) for the trypsin-like peptidase of the 20S proteasome. *Archives of Biochemistry and Biophysics*, **2008**, 477, 113-20	4.1	3
60	Low-pH-induced transformation of bilayer membrane into bicontinuous cubic phase in dioleoylphosphatidylserine/monoolein membranes. *Langmuir*, **2008**, 24, 3400-6	4	24

59	Chapter 5 The Single Guv Method to Reveal Elementary Processes of Leakage of Internal Contents from Liposomes Induced by Antimicrobial Substances. *Behavior Research Methods*, **2008**, 121-142	6.1	28
58	Water permeability of lipid membranes of GUVs and its dependence on actin cytoskeletons inside the GUVs **2008**,		2
57	1P-213 Interaction of Cell Penerating Peptide, Transportan 10, with single GUVs of lipid membrane(The 46th Annual Meeting of the Biophysical Society of Japan). *Seibutsu Butsuri*, **2008**, 48, S54	0	
56	1P-210 Effects of Surface Charge Density of Lipid Membranes on the Pore Formation Induced by Magainin 2 : the Single GUV Method Study (2)(The 46th Annual Meeting of the Biophysical Society of Japan). *Seibutsu Butsuri*, **2008**, 48, S54	0	
55	Vesicle fission of giant unilamellar vesicles of liquid-ordered-phase membranes induced by amphiphiles with a single long hydrocarbon chain. *Langmuir*, **2007**, 23, 720-8	4	56
54	Single GUV method reveals interaction of tea catechin (-)-epigallocatechin gallate with lipid membranes. *Biophysical Journal*, **2007**, 92, 3178-94	2.9	118
53	2P272 Characterization of the pore in lipid mamabranes induced by antimicrobialpeptide, magainin 2(Native and artificial biomembranes-dynamics,Poster Presentations). *Seibutsu Butsuri*, **2007**, 47, S181	0	0
52	The "Le Chatelier₹ principle"-governed response of actin filaments to osmotic stress. *Journal of Physical Chemistry B*, **2006**, 110, 13572-81	3.4	5
51	1P309 Elasticity of Solutions of Actin Filaments with Polymorphous Assembly Structures(10. Cytoskeleton,Poster Session,Abstract,Meeting Program of EABS & BSJ 2006). *Seibutsu Butsuri*, **2006**, 46, S224	0	
50	Design and facile synthesis of neoglycolipids as lactosylceramide mimetics and their transformation into glycoliposomes. *Bioscience, Biotechnology and Biochemistry*, **2005**, 69, 166-78	2.1	21
49	Effect of positively charged short peptides on stability of cubic phases of monoolein/dioleoylphosphatidic acid mixtures. *Langmuir*, **2005**, 21, 5290-7	4	25
48	Formation of cubic phases from large unilamellar vesicles of dioleoylphosphatidylglycerol/monoolein membranes induced by low concentrations of Ca2+. *Langmuir*, **2005**, 21, 11556-61	4	47
47	Single giant unilamellar vesicle method reveals effect of antimicrobial peptide magainin 2 on membrane permeability. *Biochemistry*, **2005**, 44, 15823-33	3.2	177
46	Cationic DMPC/DMTAP lipid bilayers: local lateral polarization of phosphatidylcholine headgroups. *Langmuir*, **2005**, 21, 5677-80	4	16
45	The Single GUV Method for Probing Biomembrane Structure and Function. *E-Journal of Surface Science and Nanotechnology*, **2005**, 3, 218-227	0.7	10
44	The effect of peptides and ions interacting with an electrically neutral membrane interface on the structure and stability of lipid membranes in the liquid-crystalline phase and in the liquid-ordered phase. *Journal of Physics Condensed Matter*, **2005**, 17, S2979-S2989	1.8	3
43	Low pH Stabilizes the Inverted Hexagonal II Phase in Dipalmitoleoylphosphatidylethanolamine Membrane. *Journal of Biological Physics*, **2004**, 30, 377-86	1.6	1
42	Optical nanospectroscopy applications in material science. *Applied Surface Science*, **2004**, 234, 374-386	6.7	2

41	Low concentration of dioleoylphosphatidic acid induces an inverted hexagonal (H II) phase transition in dipalmitoleoylphosphatidylethanolamine membranes. *Biophysical Chemistry*, **2004**, 109, 149-55	3.5	5
40	Lipid membrane formation by vesicle fusion on silicon dioxide surfaces modified with alkyl self-assembled monolayer islands. *Langmuir*, **2004**, 20, 7526-31	4	41
39	Shape changes and vesicle fission of giant unilamellar vesicles of liquid-ordered phase membrane induced by lysophosphatidylcholine. *Langmuir*, **2004**, 20, 9526-34	4	83
38	Membrane fusion of giant unilamellar vesicles of neutral phospholipid membranes induced by La3+. *Langmuir*, **2004**, 20, 5160-4	4	84
37	Stability of giant unilamellar vesicles and large unilamellar vesicles of liquid-ordered phase membranes in the presence of Triton X-100. *Biochimica Et Biophysica Acta - Biomembranes*, **2004**, 1667, 1-6	3.8	32
36	Effect of de Novo Designed Peptides Interacting with the Lipid-Membrane Interface on the Stability of the Cubic Phases of the Monoolein Membrane. *Langmuir*, **2003**, 19, 4745-4753	4	31
35	Atomic force microscopy studies of interaction of the 20S proteasome with supported lipid bilayers. *Biochimica Et Biophysica Acta - Biomembranes*, **2003**, 1615, 1-6	3.8	18
34	Mechanical response of single filamin A (ABP-280) molecules and its role in the actin cytoskeleton **2003**, 525-534		3
33	A model of pressure-induced interdigitation of phospholipid membranes. *Chemical Physics Letters*, **2002**, 360, 515-520	2.5	5
32	Effect of electrostatic interactions on phase stability of cubic phases of biomembranes. *Journal of Biological Physics*, **2002**, 28, 253-66	1.6	2
31	Mechanical response of single filamin A (ABP-280) molecules and its role in the actin cytoskeleton. *Journal of Muscle Research and Cell Motility*, **2002**, 23, 525-34	3.5	34
30	Shape Changes of Giant Unilamellar Vesicles of Phosphatidylcholine Induced by a De Novo Designed Peptide Interacting with Their Membrane Interface. *Langmuir*, **2002**, 18, 9638-9641	4	53
29	A new method for the preparation of giant liposomes in high salt concentrations and growth of protein microcrystals in them. *Biochimica Et Biophysica Acta - Biomembranes*, **2002**, 1561, 129-34	3.8	90
28	La(3+) and Gd(3+) induce shape change of giant unilamellar vesicles of phosphatidylcholine. *Biochimica Et Biophysica Acta - Biomembranes*, **2002**, 1564, 173-82	3.8	85
27	The mechanism of the stabilization of the hexagonal II (HII) phase in phosphatidylethanolamine membranes in the presence of low concentrations of dimethyl sulfoxide. *European Biophysics Journal*, **2001**, 30, 207-20	1.9	37
26	Effect of electrostatic interactions on phase stability of cubic phases of membranes of monoolein/dioleoylphosphatidic acid mixtures. *Biophysical Journal*, **2001**, 81, 983-93	2.9	54
25	Mechanical unfolding of single filamin A (ABP-280) molecules detected by atomic force microscopy. *FEBS Letters*, **2001**, 498, 72-5	3.8	103
24	La(3+) stabilizes the hexagonal II (H(II)) phase in phosphatidylethanolamine membranes. *Biochimica Et Biophysica Acta - Biomembranes*, **2001**, 1515, 189-201	3.8	15

23	1K1130 Effects of Electrostatic Interaction and Peptide-Membrane Interaction onPhase Stability and Structure of Cubic Phases of Lipid Membranes. *Seibutsu Butsuri*, **2000**, 40, S84	0	
22	Low concentration of DMSO stabilizes the bilayer gel phase rather than the interdigitated gel phase in dihexadecylphosphatidylcholine membrane. *Biochimica Et Biophysica Acta - Biomembranes*, **2000**, 1467, 395-405	3.8	31
21	Effects of solvents interacting favorably with hydrophilic segments of the membrane surface of phosphatidylcholine on their gel-phase membranes in water. *Biophysical Chemistry*, **1999**, 81, 191-6	3.5	9
20	Effects of electrostatic interaction on the phase stability and structures of cubic phases of monoolein/oleic acid mixture membranes. *Biochimica Et Biophysica Acta - Biomembranes*, **1999**, 1461, 96-102	3.8	63
19	Low pH induces an interdigitated gel to bilayer gel phase transition in dihexadecylphosphatidylcholine membrane. *Biophysical Journal*, **1999**, 77, 2015-23	2.9	53
18	Intermembrane distance in multilamellar vesicles of phosphatidylcholine depends on the interaction free energy between solvents and the hydrophilic segments of the membrane surface. *Biophysical Chemistry*, **1998**, 74, 237-49	3.5	29
17	Ion Permeability of a Membrane with Soft Polar Interfaces. 2. The Polar Zones as the Rate-Determining Step. *Langmuir*, **1998**, 14, 4630-4637	4	3
16	Phase transition between hexagonal II (H[II]) and liquid-crystalline phase induced by interaction between solvents and segments of the membrane surface of dioleoylphosphatidylethanolamine. *Biochimica Et Biophysica Acta - Biomembranes*, **1997**, 1330, 199-206	3.8	17
15	Osmotic stress induces a phase transition from interdigitated gel phase to bilayer gel phase in multilamellar vesicles of dihexadecylphosphatidylcholine. *Biophysical Chemistry*, **1997**, 65, 229-33	3.5	10
14	Interaction of the surface of biomembrane with solvents: structure of multilamellar vesicles of dipalmitoylphosphatidylcholine in acetone-water mixtures. *Chemistry and Physics of Lipids*, **1997**, 85, 53-65	3.7	20
13	Polymorphism of F-actin assembly. 1. A quantitative phase diagram of F-actin. *Biochemistry*, **1996**, 35, 5238-44	3.2	21
12	Organic solvents induce interdigitated gel structures in multilamellar vesicles of dipalmitoylphosphatidylcholine. *Biochimica Et Biophysica Acta - Biomembranes*, **1996**, 1284, 233-9	3.8	35
11	Formation of ion channels in lipid bilayers by a peptide with the predicted transmembrane sequence of botulinum neurotoxin A. *Protein Science*, **1995**, 4, 1490-7	6.3	57
10	Direct evidence of induction of interdigitated gel structure in large unilamellar vesicles of dipalmitoylphosphatidylcholine by ethanol: studies by excimer method and high-resolution electron cryomicroscopy. *Biophysical Journal*, **1994**, 66, 729-33	2.9	41
9	Effect of oligomers of ethylene glycol on thermotropic phase transition of dipalmitoylphosphatidylcholine multilamellar vesicles. *Biochimica Et Biophysica Acta - Biomembranes*, **1992**, 1109, 43-7	3.8	8
8	Studies of alcohol-induced interdigitated gel phase in phosphatidylcholine multilamellar vesicles by the excimer method. *Biochimica Et Biophysica Acta - Biomembranes*, **1992**, 1106, 94-8	3.8	20
7	Phase transitions of phospholipid vesicles under osmotic stress and in the presence of ethylene glycol. *Biophysical Chemistry*, **1992**, 43, 29-37	3.5	49
6	Phase separation of Triton X-100 micelle solution induced by osmotic stress. *Biochimica Et Biophysica Acta - Biomembranes*, **1991**, 1063, 175-7	3.8	10

5	Deformation and instability in membrane structure of phospholipid vesicles caused by osmophobic association: mechanical stress model for the mechanism of poly(ethylene glycol)-induced membrane fusion. *Biochemistry*, **1990**, 29, 1309-14	3.2	95
4	Poly(ethylene glycol)-induced shrinkage of Sephadex gel. A model system for quantitative analysis of osmoelastic coupling. *Biophysical Journal*, **1989**, 56, 707-11	2.9	16
3	Osmoelastic coupling in biological structures: a comprehensive thermodynamic analysis of the osmotic response of phospholipid vesicles and a reevaluation of the "dehydration force" theory. *Biochemistry*, **1989**, 28, 5626-30	3.2	27
2	Osmoelastic coupling in biological structures: decrease in membrane fluidity and osmophobic association of phospholipid vesicles in response to osmotic stress. *Biochemistry*, **1989**, 28, 3710-5	3.2	67
1	Osmoelastic coupling in biological structures: formation of parallel bundles of actin filaments in a crystalline-like structure caused by osmotic stress. *Biochemistry*, **1989**, 28, 6513-8	3.2	78