

Masahito Yamazaki

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5248359/masahito-yamazaki-publications-by-citations.pdf>

Version: 2024-04-28

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.

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	Single giant unilamellar vesicle method reveals effect of antimicrobial peptide magainin 2 on membrane permeability. <i>Biochemistry</i> , 2005 , 44, 15823-33	3.2	177
111	Single GUV method reveals interaction of tea catechin (-)-epigallocatechin gallate with lipid membranes. <i>Biophysical Journal</i> , 2007 , 92, 3178-94	2.9	118
110	Magainin 2-induced pore formation in the lipid membranes depends on its concentration in the membrane interface. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 4846-52	3.4	111
109	Kinetic pathway of antimicrobial peptide magainin 2-induced pore formation in lipid membranes. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 12018-26	3.4	105
108	Mechanical unfolding of single filamin A (ABP-280) molecules detected by atomic force microscopy. <i>FEBS Letters</i> , 2001 , 498, 72-5	3.8	103
107	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. <i>Biochemistry</i> , 1990 , 29, 1309-14	3.2	95
106	A new method for the preparation of giant liposomes in high salt concentrations and growth of protein microcrystals in them. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2002 , 1561, 129-34	3.8	90
105	La(3+) and Gd(3+) induce shape change of giant unilamellar vesicles of phosphatidylcholine. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2002 , 1564, 173-82	3.8	85
104	Membrane fusion of giant unilamellar vesicles of neutral phospholipid membranes induced by La ³⁺ . <i>Langmuir</i> , 2004 , 20, 5160-4	4	84
103	Shape changes and vesicle fission of giant unilamellar vesicles of liquid-ordered phase membrane induced by lysophosphatidylcholine. <i>Langmuir</i> , 2004 , 20, 9526-34	4	83
102	Osmoelastic coupling in biological structures: formation of parallel bundles of actin filaments in a crystalline-like structure caused by osmotic stress. <i>Biochemistry</i> , 1989 , 28, 6513-8	3.2	78
101	Stretch-activated pore of the antimicrobial peptide, magainin 2. <i>Langmuir</i> , 2015 , 31, 3391-401	4	76
100	A membrane filtering method for the purification of giant unilamellar vesicles. <i>Chemistry and Physics of Lipids</i> , 2011 , 164, 351-8	3.7	75
99	Osmoelastic coupling in biological structures: decrease in membrane fluidity and osmophobic association of phospholipid vesicles in response to osmotic stress. <i>Biochemistry</i> , 1989 , 28, 3710-5	3.2	67
98	Effects of electrostatic interaction on the phase stability and structures of cubic phases of monoolein/oleic acid mixture membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1999 , 1461, 96-102	3.8	63
97	The single GUV method for revealing the functions of antimicrobial, pore-forming toxin, and cell-penetrating peptides or proteins. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 15752-67	3.6	61
96	Entry of cell-penetrating peptide transportan 10 into a single vesicle by translocating across lipid membrane and its induced pores. <i>Biochemistry</i> , 2014 , 53, 386-96	3.2	57

95	Formation of ion channels in lipid bilayers by a peptide with the predicted transmembrane sequence of botulinum neurotoxin A. <i>Protein Science</i> , 1995 , 4, 1490-7	6.3	57
94	Vesicle fission of giant unilamellar vesicles of liquid-ordered-phase membranes induced by amphiphiles with a single long hydrocarbon chain. <i>Langmuir</i> , 2007 , 23, 720-8	4	56
93	Effect of electrostatic interactions on phase stability of cubic phases of membranes of monoolein/dioleoylphosphatidic acid mixtures. <i>Biophysical Journal</i> , 2001 , 81, 983-93	2.9	54
92	Shape Changes of Giant Unilamellar Vesicles of Phosphatidylcholine Induced by a De Novo Designed Peptide Interacting with Their Membrane Interface. <i>Langmuir</i> , 2002 , 18, 9638-9641	4	53
91	Low pH induces an interdigitated gel to bilayer gel phase transition in dihexadecylphosphatidylcholine membrane. <i>Biophysical Journal</i> , 1999 , 77, 2015-23	2.9	53
90	Rate constant of tension-induced pore formation in lipid membranes. <i>Langmuir</i> , 2013 , 29, 3848-52	4	51
89	Phase transitions of phospholipid vesicles under osmotic stress and in the presence of ethylene glycol. <i>Biophysical Chemistry</i> , 1992 , 43, 29-37	3.5	49
88	Mechanism of Initial Stage of Pore Formation Induced by Antimicrobial Peptide Magainin 2. <i>Langmuir</i> , 2018 , 34, 3349-3362	4	47
87	Formation of cubic phases from large unilamellar vesicles of dioleoylphosphatidylglycerol/monoolein membranes induced by low concentrations of Ca ²⁺ . <i>Langmuir</i> , 2005 , 21, 11556-61	4	47
86	Experimental Estimation of Membrane Tension Induced by Osmotic Pressure. <i>Biophysical Journal</i> , 2016 , 111, 2190-2201	2.9	46
85	Effects of Lipid Composition on the Entry of Cell-Penetrating Peptide Oligoarginine into Single Vesicles. <i>Biochemistry</i> , 2016 , 55, 4154-65	3.2	41
84	Lipid membrane formation by vesicle fusion on silicon dioxide surfaces modified with alkyl self-assembled monolayer islands. <i>Langmuir</i> , 2004 , 20, 7526-31	4	41
83	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. <i>Biophysical Journal</i> , 1994 , 66, 729-33	2.9	41
82	The single-giant unilamellar vesicle method reveals lysenin-induced pore formation in lipid membranes containing sphingomyelin. <i>Biochemistry</i> , 2012 , 51, 5160-72	3.2	39
81	The mechanism of the stabilization of the hexagonal II (HII) phase in phosphatidylethanolamine membranes in the presence of low concentrations of dimethyl sulfoxide. <i>European Biophysics Journal</i> , 2001 , 30, 207-20	1.9	37
80	Organic solvents induce interdigitated gel structures in multilamellar vesicles of dipalmitoylphosphatidylcholine. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1996 , 1284, 233-9	3.8	35
79	Effects of Mechanical Properties of Lipid Bilayers on the Entry of Cell-Penetrating Peptides into Single Vesicles. <i>Langmuir</i> , 2017 , 33, 2433-2443	4	34
78	Mechanical response of single Filamin A (ABP-280) molecules and its role in the actin cytoskeleton. <i>Journal of Muscle Research and Cell Motility</i> , 2002 , 23, 525-34	3.5	34

77	Communication: Activation energy of tension-induced pore formation in lipid membranes. <i>Journal of Chemical Physics</i> , 2015 , 143, 081103	3.9	32
76	Stability of giant unilamellar vesicles and large unilamellar vesicles of liquid-ordered phase membranes in the presence of Triton X-100. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2004 , 1667, 1-6	3.8	32
75	Effect of de Novo Designed Peptides Interacting with the Lipid-Membrane Interface on the Stability of the Cubic Phases of the Monoolein Membrane. <i>Langmuir</i> , 2003 , 19, 4745-4753	4	31
74	Low concentration of DMSO stabilizes the bilayer gel phase rather than the interdigitated gel phase in dihexadecylphosphatidylcholine membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2000 , 1467, 395-405	3.8	31
73	Electrostatic interaction effects on tension-induced pore formation in lipid membranes. <i>Physical Review E</i> , 2015 , 92, 012708	2.4	30
72	Analysis of constant tension-induced rupture of lipid membranes using activation energy. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 13487-95	3.6	30
71	Intermembrane distance in multilamellar vesicles of phosphatidylcholine depends on the interaction free energy between solvents and the hydrophilic segments of the membrane surface. <i>Biophysical Chemistry</i> , 1998 , 74, 237-49	3.5	29
70	Elementary processes for the entry of cell-penetrating peptides into lipid bilayer vesicles and bacterial cells. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 3879-3892	5.7	28
69	Chapter 5 The Single Guv Method to Reveal Elementary Processes of Leakage of Internal Contents from Liposomes Induced by Antimicrobial Substances. <i>Behavior Research Methods</i> , 2008 , 121-142	6.1	28
68	Osmoelastic coupling in biological structures: a comprehensive thermodynamic analysis of the osmotic response of phospholipid vesicles and a reevaluation of the "dehydration force" theory. <i>Biochemistry</i> , 1989 , 28, 5626-30	3.2	27
67	Entry of a Six-Residue Antimicrobial Peptide Derived from Lactoferricin B into Single Vesicles and Escherichia coli Cells without Damaging their Membranes. <i>Biochemistry</i> , 2017 , 56, 4419-4431	3.2	26
66	Spontaneous insertion of lipopolysaccharide into lipid membranes from aqueous solution. <i>Chemistry and Physics of Lipids</i> , 2011 , 164, 166-74	3.7	25
65	Effect of positively charged short peptides on stability of cubic phases of monoolein/dioleoylphosphatidic acid mixtures. <i>Langmuir</i> , 2005 , 21, 5290-7	4	25
64	Low-pH-induced transformation of bilayer membrane into bicontinuous cubic phase in dioleoylphosphatidylserine/monoolein membranes. <i>Langmuir</i> , 2008 , 24, 3400-6	4	24
63	Design and facile synthesis of neoglycolipids as lactosylceramide mimetics and their transformation into glycoliposomes. <i>Bioscience, Biotechnology and Biochemistry</i> , 2005 , 69, 166-78	2.1	21
62	Polymorphism of F-actin assembly. 1. A quantitative phase diagram of F-actin. <i>Biochemistry</i> , 1996 , 35, 5238-44	3.2	21
61	Interaction of the surface of biomembrane with solvents: structure of multilamellar vesicles of dipalmitoylphosphatidylcholine in acetone-water mixtures. <i>Chemistry and Physics of Lipids</i> , 1997 , 85, 53-65	3.7	20
60	Studies of alcohol-induced interdigitated gel phase in phosphatidylcholine multilamellar vesicles by the excimer method. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1992 , 1106, 94-8	3.8	20

59	Antimicrobial Peptide Lactoferricin B-Induced Rapid Leakage of Internal Contents from Single Giant Unilamellar Vesicles. <i>Biochemistry</i> , 2015 , 54, 5802-14	3.2	19
58	Continuous detection of entry of cell-penetrating peptide transportan 10 into single vesicles. <i>Chemistry and Physics of Lipids</i> , 2018 , 212, 120-129	3.7	19
57	The role of membrane tension in the action of antimicrobial peptides and cell-penetrating peptides in biomembranes. <i>Biophysical Reviews</i> , 2019 , 11, 431-448	3.7	18
56	Atomic force microscopy studies of interaction of the 20S proteasome with supported lipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2003 , 1615, 1-6	3.8	18
55	Phase transition between hexagonal II (H[II]) and liquid-crystalline phase induced by interaction between solvents and segments of the membrane surface of dioleoylphosphatidylethanolamine. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1997 , 1330, 199-206	3.8	17
54	Initial step of pH-jump-induced lamellar to bicontinuous cubic phase transition in dioleoylphosphatidylserine/monoolein. <i>Langmuir</i> , 2014 , 30, 8131-40	4	16
53	Cationic DMPC/DMTAP lipid bilayers: local lateral polarization of phosphatidylcholine headgroups. <i>Langmuir</i> , 2005 , 21, 5677-80	4	16
52	Poly(ethylene glycol)-induced shrinkage of Sephadex gel. A model system for quantitative analysis of osmoelastic coupling. <i>Biophysical Journal</i> , 1989 , 56, 707-11	2.9	16
51	Kinetics of low pH-induced lamellar to bicontinuous cubic phase transition in dioleoylphosphatidylserine/monoolein. <i>Journal of Chemical Physics</i> , 2011 , 134, 145102	3.9	15
50	La(3+) stabilizes the hexagonal II (H[II]) phase in phosphatidylethanolamine membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2001 , 1515, 189-201	3.8	15
49	Role of Membrane Potential on Entry of Cell-Penetrating Peptide Transportan 10 into Single Vesicles. <i>Biophysical Journal</i> , 2020 , 118, 57-69	2.9	15
48	Membrane potential is vital for rapid permeabilization of plasma membranes and lipid bilayers by the antimicrobial peptide lactoferricin B. <i>Journal of Biological Chemistry</i> , 2019 , 294, 10449-10462	5.4	14
47	Activation Energy of the Low-pH-Induced Lamellar to Bicontinuous Cubic Phase Transition in Dioleoylphosphatidylserine/Monoolein. <i>Langmuir</i> , 2016 , 32, 1327-37	4	13
46	Action of antimicrobial peptides and cell-penetrating peptides on membrane potential revealed by the single GUV method. <i>Biophysical Reviews</i> , 2020 , 12, 339-348	3.7	12
45	Low-pH-Induced Lamellar to Bicontinuous Primitive Cubic Phase Transition in Dioleoylphosphatidylserine/Monoolein Membranes. <i>Langmuir</i> , 2017 , 33, 12487-12496	4	10
44	Osmotic stress induces a phase transition from interdigitated gel phase to bilayer gel phase in multilamellar vesicles of dihexadecylphosphatidylcholine. <i>Biophysical Chemistry</i> , 1997 , 65, 229-33	3.5	10
43	The Single GUV Method for Probing Biomembrane Structure and Function. <i>E-Journal of Surface Science and Nanotechnology</i> , 2005 , 3, 218-227	0.7	10
42	Phase separation of Triton X-100 micelle solution induced by osmotic stress. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1991 , 1063, 175-7	3.8	10

41	Elementary processes of antimicrobial peptide PGLa-induced pore formation in lipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018 , 1860, 2262-2271	3.8	10
40	Effect of membrane tension on transbilayer movement of lipids. <i>Journal of Chemical Physics</i> , 2018 , 148, 245101	3.9	10
39	A model for targeting colon carcinoma cells using single-chain variable fragments anchored on virus-like particles via glycosyl phosphatidylinositol anchor. <i>Pharmaceutical Research</i> , 2014 , 31, 2166-77	4.5	9
38	Chapter 7 Transformation Between Liposomes and Cubic Phases of Biological Lipid Membranes Induced by Modulation of Electrostatic Interactions. <i>Behavior Research Methods</i> , 2009 , 163-209	6.1	9
37	Effects of solvents interacting favorably with hydrophilic segments of the membrane surface of phosphatidylcholine on their gel-phase membranes in water. <i>Biophysical Chemistry</i> , 1999 , 81, 191-6	3.5	9
36	Membrane Tension in Negatively Charged Lipid Bilayers in a Buffer under Osmotic Pressure. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 5588-5599	3.4	8
35	Effect of oligomers of ethylene glycol on thermotropic phase transition of dipalmitoylphosphatidylcholine multilamellar vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1992 , 1109, 43-7	3.8	8
34	Fluorescent and electrochemical dual-mode detection of Chikungunya virus E1 protein using fluorophore-embedded and redox probe-encapsulated liposomes. <i>Mikrochimica Acta</i> , 2020 , 187, 674	5.8	7
33	Effect of membrane potential on pore formation by the antimicrobial peptide magainin 2 in lipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020 , 1862, 183381	3.8	7
32	Elementary Processes and Mechanisms of Interactions of Antimicrobial Peptides with Membranes-Single Giant Unilamellar Vesicle Studies. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1117, 17-32	3.6	6
31	Sulfur-doped carbon dots@polydopamine-functionalized magnetic silver nanocubes for dual-modality detection of norovirus. <i>Biosensors and Bioelectronics</i> , 2021 , 193, 113540	11.8	6
30	The "Le Chatelier's principle"-governed response of actin filaments to osmotic stress. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 13572-81	3.4	5
29	Low concentration of dioleoylphosphatidic acid induces an inverted hexagonal (H II) phase transition in dipalmitoleoylphosphatidylethanolamine membranes. <i>Biophysical Chemistry</i> , 2004 , 109, 149-55	3.5	5
28	A model of pressure-induced interdigitation of phospholipid membranes. <i>Chemical Physics Letters</i> , 2002 , 360, 515-520	2.5	5
27	Use of Target-Specific Liposome and Magnetic Nanoparticle Conjugation for the Amplified Detection of Norovirus. <i>ACS Applied Bio Materials</i> , 2020 , 3, 3560-3568	4.1	4
26	High affinity Zn ²⁺ inhibitory site(s) for the trypsin-like peptidase of the 20S proteasome. <i>Archives of Biochemistry and Biophysics</i> , 2008 , 477, 113-20	4.1	3
25	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. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, S2979-S2989	1.8	3
24	Ion Permeability of a Membrane with Soft Polar Interfaces. 2. The Polar Zones as the Rate-Determining Step. <i>Langmuir</i> , 1998 , 14, 4630-4637	4	3

23	Mechanical response of single filamin A (ABP-280) molecules and its role in the actin cytoskeleton 2003 , 525-534		3
22	Effect of membrane potential on entry of lactoferricin B-derived 6-residue antimicrobial peptide into single cells and lipid vesicles. <i>Journal of Bacteriology</i> , 2021 ,	3.5	3
21	Effect of Transmembrane Asymmetric Distribution of Lipids and Peptides on Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 4645-4652	3.4	2
20	Water permeability of lipid membranes of GUVs and its dependence on actin cytoskeletons inside the GUVs 2008 ,		2
19	Optical nanospectroscopy applications in material science. <i>Applied Surface Science</i> , 2004 , 234, 374-386	6.7	2
18	Effect of electrostatic interactions on phase stability of cubic phases of biomembranes. <i>Journal of Biological Physics</i> , 2002 , 28, 253-66	1.6	2
17	Detection of the Entry of Nonlabeled Transportan 10 into Single Vesicles. <i>Biochemistry</i> , 2020 , 59, 1780-1790	3.9	2
16	Low pH Stabilizes the Inverted Hexagonal II Phase in Dipalmitoleoylphosphatidylethanolamine Membrane. <i>Journal of Biological Physics</i> , 2004 , 30, 377-86	1.6	1
15	Translocation of the nonlabeled antimicrobial peptide PGLa across lipid bilayers and its entry into vesicle lumens without pore formation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021 , 1863, 183680	3.8	1
14	2P272 Characterization of the pore in lipid membranes induced by antimicrobial peptide, magainin 2 (Native and artificial biomembranes-dynamics, Poster Presentations). <i>Seibutsu Butsuri</i> , 2007 , 47, S181	0	0
13	A Single GUV Method for Revealing the Action of Cell-Penetrating Peptides in Biomembranes. <i>Methods in Molecular Biology</i> , 2022 , 2383, 167-179	1.4	0
12	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). <i>Seibutsu Butsuri</i> , 2014 , 54, S230	0	
11	1P215 Initial Step of Low pH-Induced Lamellar to Bicontinuous Cubic Phase Transition in Dioleoylphosphatidylserine/Monoolein (13B. Biological & Artificial membrane: Dynamics, Poster, The 51st Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2013 , 53, S141	0	
10	1P218 Permeation of Cell-Penetrating Peptide Transportan 10 through Lipid Membranes before Pore Formation (13B. Biological & Artificial membrane: Dynamics, Poster). <i>Seibutsu Butsuri</i> , 2013 , 53, S142 ⁰		
9	1P216 Effects of Mechanical Properties of Lipid Membranes on Antimicrobial Peptide Magainin 2-Induced Pore Formation (13B. Biological & Artificial membrane: Dynamics, Poster, The 51st Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2013 , 53, S141	0	
8	1P217 Effects of Electrostatic Interactions on Rate Constants of Tension-Induced Pore Formation in Single GUVs (13B. Biological & Artificial membrane: Dynamics, Poster, The 51st Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2013 , 53, S141	0	
7	2A1536 Dependence of Lysenin-Induced Membrane Permeability on Cholesterol and Lysenin Concentration in the Membrane Surface (Biol & Artificial membrane 2: Structure & Property, Dynamics, Signal transduction, The 48th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2011 , 51, S74	0	
6	2A1548 Effects of Binding of Magainin 2 to Lipid Membranes on Surface Area and Volume of Single GUVs (Biol & Artificial membrane 2: Structure & Property, Dynamics, Signal transduction, The 48th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2011 , 51, S74	0	

- 5 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
- 4 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
- 3 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
- 2 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
- 1 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