

Hiroaki Suzuki

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

115 papers	2,853 citations	29 h-index	51 g-index
143 ext. papers	3,244 ext. citations	4.2 avg, IF	5.04 L-index

#	Paper	IF	Citations
115	Plug-and-play microfluidic production of monodisperse giant unilamellar vesicles using droplet transfer across Water/Oil interface. <i>Sensors and Actuators B: Chemical</i> , 2022 , 355, 131281	8.5	3
114	Liposome-Mediated Material Transfer in Single Cells 2022 , 435-448		
113	Single-cell RNA-seq analysis reveals penaeid shrimp hemocyte subpopulations and cell differentiation process. <i>ELife</i> , 2021 , 10,	8.9	15
112	Usefulness of cell-penetrating peptides and penetration accelerating sequence for nose-to-brain delivery of glucagon-like peptide-2. <i>Journal of Controlled Release</i> , 2021 , 335, 575-583	11.7	3
111	Sizing of giant unilamellar vesicles using a metal mesh with a high opening ratio. <i>Chemistry and Physics of Lipids</i> , 2021 , 241, 105148	3.7	1
110	Applying deterministic lateral displacement cell separation on immune cells of Marine shrimp. <i>Sensors and Actuators B: Chemical</i> , 2021 , 347, 130587	8.5	0
109	Deformation Dynamics of Giant Unilamellar Vesicles in the Large Surface-to-Volume Ratio Regime: The Emergence of Neuron-like Morphology. <i>Langmuir</i> , 2020 , 36, 6238-6244	4	3
108	Selective self-assembly of three-component system based on hydrophilic/hydrophobic patterning. <i>Sensors and Actuators A: Physical</i> , 2020 , 312, 112143	3.9	
107	A simple microfluidic device for live-imaging of the vertical section of epithelial cells. <i>Analyst, The</i> , 2020 , 145, 667-674	5	3
106	Elucidating the Membrane Dynamics and Encapsulation Mechanism of Large DNA Molecules Under Molecular Crowding Conditions Using Giant Unilamellar Vesicles. <i>ACS Synthetic Biology</i> , 2020 , 9, 2819-2827	5.7	0
105	Ejection of Large Particulate Materials from Giant Unilamellar Vesicles Induced by Electropulsation. <i>Langmuir</i> , 2019 , 35, 13196-13204	4	2
104	Liposome-Mediated Material Transfer in Single Cells 2019 , 1-14		
103	Polymer-Induced Self-Assembly of a Three-Dimensional Mesoscale Structure. <i>Journal of Microelectromechanical Systems</i> , 2019 , 28, 678-684	2.5	1
102	Assembly of Microparticles to Patterned Trenches Using the Depletion Volume Effect. <i>Micromachines</i> , 2019 , 10,	3.3	1
101	Deformation Modes of Giant Unilamellar Vesicles Encapsulating Biopolymers. <i>ACS Synthetic Biology</i> , 2018 , 7, 739-747	5.7	16
100	Reverse Transcription Polymerase Chain Reaction in Giant Unilamellar Vesicles. <i>Scientific Reports</i> , 2018 , 8, 9214	4.9	20
99	A fluidics-based impact sensor. <i>PLoS ONE</i> , 2018 , 13, e0195741	3.7	

98	Selective bonding method for self-assembly of heterogeneous components using patterned surfaces. <i>Sensors and Actuators A: Physical</i> , 2018 , 279, 306-312	3.9	1
97	Dividing Small Numbers: The Discreteness and Distribution of Molecules in the Cell Membrane 2018 , 69-78		
96	Numerical and Experimental Analyses of Three- Dimensional Unsteady Flow around a Micro-Pillar Subjected to Rotational Vibration. <i>Micromachines</i> , 2018 , 9,	3.3	1
95	One-step micromolding of complex 3D microchambers for single-cell analysis. <i>Lab on A Chip</i> , 2017 , 17, 647-652	7.2	4
94	Self-assembly of artificially manufactured microcomponents using the entropic effect. <i>Sensors and Actuators A: Physical</i> , 2017 , 254, 43-53	3.9	8
93	Fracture characterization of inhomogeneous wrinkled metallic films deposited on soft substrates. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 495301	3	1
92	Experimental study of the knockout reaction mechanism using O14 at 60 MeV/nucleon. <i>Physical Review C</i> , 2016 , 93,	2.7	4
91	Microchamber device for detection of transporter activity of adherent cells. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015 , 3, 32	5.8	1
90	Shape Transformations of Lipid Vesicles by Insertion of Bulky-Head Lipids. <i>PLoS ONE</i> , 2015 , 10, e0132963.	3.7	11
89	A microwell device for measurement of membrane transport of adherent cells 2015 ,		1
88	Stochasticity in gene expression in a cell-sized compartment. <i>ACS Synthetic Biology</i> , 2015 , 4, 566-76	5.7	40
87	Cell-free protein synthesis in a microchamber revealed the presence of an optimum compartment volume for high-order reactions. <i>ACS Synthetic Biology</i> , 2014 , 3, 347-52	5.7	20
86	Extrinsic spin Hall effects measured with lateral spin valve structures. <i>Physical Review B</i> , 2014 , 89,	3.3	82
85	Identification of giant unilamellar vesicles with permeability to small charged molecules. <i>RSC Advances</i> , 2014 , 4, 35224	3.7	16
84	Statistical analysis of vesicle morphology dynamics based on a free energy landscape. <i>Soft Matter</i> , 2014 , 10, 6038-46	3.6	4
83	Liposome-based liquid handling platform featuring addition, mixing, and aliquoting of femtoliter volumes. <i>PLoS ONE</i> , 2014 , 9, e101820	3.7	18
82	1C33 Volume Dependence of Cell-free Protein Synthesis Using a Glass Microchamber. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2014 , 2014.26, 91-92	0	
81	Bio-inspired three-dimensional self-patterning of functional coatings for PDMS microfluidics. <i>Soft Matter</i> , 2013 , 9, 3473	3.6	10

80	Modification of an amplification reaction in recursively dynamic compartments driven by stirring. <i>Analytical Chemistry</i> , 2013 , 85, 12002-10	7.8	2
79	Origin of Cell Scenarios Supported by Dynamics of Lipid Membranes. <i>Seibutsu Butsuri</i> , 2013 , 53, 134-139		
78	Size control of giant unilamellar vesicles prepared from inverted emulsion droplets. <i>Journal of Colloid and Interface Science</i> , 2012 , 376, 119-25	9.3	72
77	Effects of compartment size on the kinetics of intracompartamental multimeric protein synthesis. <i>ACS Synthetic Biology</i> , 2012 , 1, 431-7	5.7	24
76	Fractal-shaped microchannel design for a kinetic analysis of biochemical reaction in a delay line. <i>Microfluidics and Nanofluidics</i> , 2012 , 13, 273-278	2.8	7
75	Statistical analysis of discrete encapsulation of nanomaterials in colloidal capsules. <i>Analytical Methods</i> , 2012 , 4, 1648	3.2	12
74	Cell-free protein synthesis from a single copy of DNA in a glass microchamber. <i>Lab on A Chip</i> , 2012 , 12, 2704-11	7.2	25
73	Hydrodynamic trapping of <i>Tetrahymena thermophila</i> for the long-term monitoring of cell behaviors. <i>Lab on A Chip</i> , 2012 , 12, 3451-7	7.2	26
72	Constructive Approaches for the Origin of Life. <i>Cellular Origin and Life in Extreme Habitats</i> , 2012 , 289-303		1
71	Cell-free protein synthesis inside giant unilamellar vesicles analyzed by flow cytometry. <i>Langmuir</i> , 2012 , 28, 8426-32	4	93
70	Importance of parasite RNA species repression for prolonged translation-coupled RNA self-replication. <i>Chemistry and Biology</i> , 2012 , 19, 478-87		45
69	Shrunk to femtolitre: Tuning high-throughput monodisperse water-in-oil droplet arrays for ultra-small micro-reactors. <i>Applied Physics Letters</i> , 2012 , 101, 074108	3.4	19
68	Coupling of the fusion and budding of giant phospholipid vesicles containing macromolecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 5942-7	11.5	121
67	Coarse View of Life from Physics. <i>Seibutsu Butsuri</i> , 2012 , 52, 098-099	0	
66	Programmed vesicle fusion triggers gene expression. <i>Langmuir</i> , 2011 , 27, 13082-90	4	52
65	Microfluidic lipid membrane formation on microchamber arrays. <i>Lab on A Chip</i> , 2011 , 11, 2485-7	7.2	42
64	Proton-rich nuclear structure and mirror asymmetry investigated by β -decay spectroscopy of ^{24}Si . <i>Journal of Physics: Conference Series</i> , 2011 , 312, 092031	0.3	5
63	Micro-droplet model for recursive growth and division dynamics of the cell. <i>Europhysics Letters</i> , 2011 , 96, 48006	1.6	5

62	Bio-inspired 3D self-patterning of functional coatings for PDMS microfluidics 2011 ,		1
61	Origin of lognormal-like distributions with a common width in a growth and division process. <i>Physical Review E</i> , 2011 , 83, 031118	2.4	20
60	Evolvability and Self-Replication of Genetic Information in Liposomes 2011 , 275-287		2
59	Search for H7 in H2+He8 collisions. <i>Physical Review C</i> , 2010 , 81,	2.7	17
58	Constructing partial models of cells. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010 , 2, a004945	10.2	33
57	Synthesis of functional proteins within liposomes. <i>Methods in Molecular Biology</i> , 2010 , 607, 243-56	1.4	23
56	Cellular compartment model for exploring the effect of the lipidic membrane on the kinetics of encapsulated biochemical reactions. <i>Langmuir</i> , 2010 , 26, 8544-51	4	54
55	Detection of association and fusion of giant vesicles using a fluorescence-activated cell sorter. <i>Langmuir</i> , 2010 , 26, 15098-103	4	45
54	1P342 1J1520 Diffusion Modeling of Controlled Shrinkage for Femtoliter Water-in-oil Emulsion(Bioengineering,Oral Presentations,The 48th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2010 , 50, S80	o	
53	1P070 Co-translational folding of beta-galactosidase and beta-glucuronidase in an in vitro translation system(Protein:Property,The 48th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2010 , 50, S31	o	
52	2P250 Detection of association and fusion of giant vesicles using fluorescence-activated cell sorter(The 48th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2010 , 50, S126-S127		
51	Decay of the proton-rich nucleus Si24 and its mirror asymmetry. <i>Physical Review C</i> , 2009 , 80,	2.7	14
50	Chapter 2 - Detection and analysis of protein synthesis and RNA replication in giant liposomes. <i>Methods in Enzymology</i> , 2009 , 464, 19-30	1.7	8
49	Multichannel simultaneous measurements of single-molecule translocation in alpha-hemolysin nanopore array. <i>Analytical Chemistry</i> , 2009 , 81, 9866-70	7.8	90
48	Ninety-six-well planar lipid bilayer chip for ion channel recording fabricated by hybrid stereolithography. <i>Biomedical Microdevices</i> , 2009 , 11, 17-22	3.7	34
47	Beta-decay study of Tz = - 2 proton-rich nucleus 24Si. <i>European Physical Journal A</i> , 2009 , 42, 375	2.5	3
46	Computationally and experimentally derived general rules for fragmentation of various glycosyl bonds in sodium adduct oligosaccharides. <i>Analytical Chemistry</i> , 2009 , 81, 1108-20	7.8	25
45	Population analysis of structural properties of giant liposomes by flow cytometry. <i>Langmuir</i> , 2009 , 25, 10439-43	4	78

44	Electro-optical imaging microscopy of dye-doped artificial lipidic membranes. <i>Biophysical Journal</i> , 2009 , 97, 2913-21	2.9	9
43	1P-183 Size control of uniamellar giantvesicle using microfluidics(Biol & Artifi memb.:Structure & Property, The 47th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2009 , 49, S91	0	
42	Reconstruction and Functional Measurement of Artificial Lipid Membranes using Micro-Technologies. <i>Seibutsu Butsuri</i> , 2009 , 49, 086-087	0	
41	Lipid bilayer microarray for parallel recording of transmembrane ion currents. <i>Analytical Chemistry</i> , 2008 , 80, 328-32	7.8	90
40	Quantitative study of the structure of multilamellar giant liposomes as a container of protein synthesis reaction. <i>Langmuir</i> , 2008 , 24, 13540-8	4	79
39	3P-275 Quantitative analysis of interactions between the phospholipid membrane and encapsulated reaction systems in cell-sized liposomes(The 46th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2008 , 48, S170	0	
38	2S8-6 Dynamics of structure and internal reactions in liposomes explored by fluorescence-activated cell sorter(2S8 Giant Liposome Research Front Line,The 46th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2008 , 48, S13	0	
37	3P-277 Platform for controlling micro-emulsions as a model of growth and division cycle of the cell(The 46th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2008 , 48, S170	0	
36	Microtechnologies for membrane protein studies. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 2695-702	4.1	41
35	N-terminal labeling of proteins by the Pictet-Spengler reaction. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 4550-3	2.9	40
34	Fragmentation of Lewis-type trisaccharides in the gas phase: Experimental and theoretical studies. <i>International Journal of Mass Spectrometry</i> , 2008 , 278, 1-9	1.9	5
33	Formation of giant lipid vesiclelike compartments from a planar lipid membrane by a pulsed jet flow. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12608-9	16.4	144
32	Solid-phase fluorescence and ionization efficiency in negative-ion matrix-assisted laser desorption/ionization of neutral oligosaccharides: interaction between beta-carboline matrix and ammonium salt. <i>Journal of the American Society for Mass Spectrometry</i> , 2007 , 18, 714-23	3.5	15
31	Electrophysiological recordings of single ion channels in planar lipid bilayers using a polymethyl methacrylate microfluidic chip. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 1111-5	11.8	57
30	A parylene lift-off process with microfluidic channels for selective protein patterning. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 496-500	2	23
29	Chaperone properties of mammalian mitochondrial translation elongation factor Tu. <i>Journal of Biological Chemistry</i> , 2007 , 282, 4076-84	5.4	56
28	Semiquantitative analysis of isomeric oligosaccharides by negative-ion mode UV-MALDI TOF postsorce decay mass spectrometry and their fragmentation mechanism study at N-acetyl hexosamine moiety. <i>Journal of Mass Spectrometry</i> , 2006 , 41, 454-62	2.2	26
27	Biomolecular linear motors confined to move upon micro-patterns on glass. <i>Journal of Micromechanics and Microengineering</i> , 2006 , 16, 1550-1554	2	21

26	Lipid bilayer formation by contacting monolayers in a microfluidic device for membrane protein analysis. <i>Analytical Chemistry</i> , 2006 , 78, 8169-74	7.8	337
25	Highly reproducible method of planar lipid bilayer reconstitution in polymethyl methacrylate microfluidic chip. <i>Langmuir</i> , 2006 , 22, 1937-42	4	83
24	A comparative study of the fragmentation of neutral lactooligosaccharides in negative-ion mode by UV-MALDI-TOF and UV-MALDI ion-trap/TOF mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2006 , 17, 67-74	3.5	35
23	Fragmentation of Neutral Oligosaccharides in Negative-ion MALDI Mass Spectrometry. <i>Trends in Glycoscience and Glycotechnology</i> , 2006 , 18, 277-292	0.1	3
22	Assignments of B-Type Fragments in Post-Source Decay of Negative-Ion Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry of Neutral Lactooligosaccharides. <i>Journal of the Mass Spectrometry Society of Japan</i> , 2006 , 54, 251-254	0.2	1
21	In-source and postsource decay in negative-ion matrix-assisted laser desorption/ionization time-of-flight mass spectrometry of neutral oligosaccharides. <i>Analytical Chemistry</i> , 2005 , 77, 1701-7	7.8	47
20	Optimization of Matrix and Amount of Ammonium Chloride Additive for Effective Ionization of Neutral Oligosaccharides as Chloride Ion Adducts in Negative-Mode MALDI-TOF Mass Spectrometry. <i>Journal of the Mass Spectrometry Society of Japan</i> , 2005 , 53, 227-229	0.2	13
19	Active control of an axisymmetric jet with distributed electromagnetic flap actuators. <i>Experiments in Fluids</i> , 2004 , 36, 498-509	2.5	67
18	Planar lipid bilayer reconstitution with a micro-fluidic system. <i>Lab on A Chip</i> , 2004 , 4, 502-5	7.2	73
17	A chaotic mixer for magnetic bead-based micro cell sorter. <i>Journal of Microelectromechanical Systems</i> , 2004 , 13, 779-790	2.5	108
16	A Chaotic Micro-Mixer Using Magnetic Beads. <i>880-02 Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen</i> , 2003 , 69, 2626-2632		3
15	Anomalous quasiparticle excitations in Y(Ni _{1-x} Ptx)2B2C. <i>Physica B: Condensed Matter</i> , 2003 , 326, 364-368	2.8	9
14	Excess quasiparticles outside the vortex cores in Y(Ni _{1-x} Ptx)2B2C. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 388-389, 197-198	1.3	1
13	Nonlocal effects and shrinkage of the vortex core radius in YNi2B2C probed by muon spin rotation. <i>Physical Review B</i> , 2002 , 65,	3.3	26
12	Impurity-induced gap modification in anisotropic superconductors: mixed-state specific heat of La _{2-x} Srx(Cu _{1-y} Zny)O ₄ and Y(Ni _{1-x} Ptx)2B2C. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 357-360, 42-45	1.3	2
11	Quasiparticle Density of States of Clean and Dirty d-Wave Superconductors: Mixed-State Specific Heat of La _{2-x} SrxCuO ₄ Single Crystals. <i>Journal of the Physical Society of Japan</i> , 2000 , 69, 1602-1605	1.5	25
10	Anomalous field dependence of the vortex-core radius and magnetic penetration depth in YNi2B2C probed by μ SR. <i>Physica B: Condensed Matter</i> , 2000 , 289-290, 377-380	2.8	7
9	Specific heat study of SrCu ₂ (BO ₃) ₂ . <i>Physica B: Condensed Matter</i> , 2000 , 281-282, 667-668	2.8	17

8	Impurity-induced gap renormalization in anisotropic superconductors: Mixed-state specific heat of $\text{La}_{2-x}\text{Sr}_x(\text{Cu}_{1-y}\text{Zn}_y)\text{O}_4$ and $\text{Y}(\text{Ni}_{1-x}\text{Pt}_x)_2\text{B}_2\text{C}$. <i>Physica C: Superconductivity and Its Applications</i> , 2000 , 341-348, 2177-2180	1.3	36
7	Low-temperature specific heat study of $\text{SrCu}_2(\text{BO}_3)_2$ with an exactly solvable ground state. <i>Journal of Experimental and Theoretical Physics</i> , 2000 , 90, 129-132	1	17
6	Active Control of Axisymmetric Jet with an Array of Micro Electro-Magnetic Flap Actuators.. 880-02 <i>Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen</i> , 1999 , 65, 3644-3651		11
5	Breakup process for 100 MeV ^3He interacting with ^{165}Ho and $^{166, 167}\text{Er}$ nuclei. <i>Nuclear Physics A</i> , 1984 , 413, 290-310	1.3	11
4	Triple focussing electron spectrum selector (TESS-II) with a pair of sector magnets. <i>Nuclear Instruments & Methods in Physics Research</i> , 1982 , 204, 101-108		2
3	Energy and angular momentum transfers in equilibrium and pre-equilibrium $^{158}\text{Gd}(p,xn)$ reactions. <i>Nuclear Physics A</i> , 1982 , 379, 160-172	1.3	8
2	A magnetic force driven chaotic micro-mixer		14
1	Controlled formation of topological defects of liquid crystals in micro-wells. <i>Liquid Crystals</i> , 1-9	2.3	1