

Takeshi Sunami

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,415
citations

394421

19
h-index

552781

26
g-index

31
all docs

31
docs citations

31
times ranked

933
citing authors

#	ARTICLE	IF	CITATIONS
1	Replication of Genetic Information with Self-Encoded Replicase in Liposomes. <i>ChemBioChem</i> , 2008, 9, 2403-2410.	2.6	159
2	Darwinian evolution in a translation-coupled RNA replication system within a cell-like compartment. <i>Nature Communications</i> , 2013, 4, 2494.	12.8	147
3	Cell-Free Protein Synthesis inside Giant Unilamellar Vesicles Analyzed by Flow Cytometry. <i>Langmuir</i> , 2012, 28, 8426-8432.	3.5	124
4	In vitro evolution of β -hemolysin using a liposome display. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16796-16801.	7.1	123
5	Liposome display for in vitro selection and evolution of membrane proteins. <i>Nature Protocols</i> , 2014, 9, 1578-1591.	12.0	123
6	Femtoliter compartment in liposomes for in vitro selection of proteins. <i>Analytical Biochemistry</i> , 2006, 357, 128-136.	2.4	99
7	Quantitative Study of the Structure of Multilamellar Giant Liposomes As a Container of Protein Synthesis Reaction. <i>Langmuir</i> , 2008, 24, 13540-13548.	3.5	90
8	Population Analysis of Structural Properties of Giant Liposomes by Flow Cytometry. <i>Langmuir</i> , 2009, 25, 10439-10443.	3.5	89
9	Programmed Vesicle Fusion Triggers Gene Expression. <i>Langmuir</i> , 2011, 27, 13082-13090.	3.5	62
10	Cellular Compartment Model for Exploring the Effect of the Lipidic Membrane on the Kinetics of Encapsulated Biochemical Reactions. <i>Langmuir</i> , 2010, 26, 8544-8551.	3.5	60
11	Detection of Association and Fusion of Giant Vesicles Using a Fluorescence-Activated Cell Sorter. <i>Langmuir</i> , 2010, 26, 15098-15103.	3.5	54
12	Sustainable proliferation of liposomes compatible with inner RNA replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 590-595.	7.1	46
13	Constructing Partial Models of Cells. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010, 2, a004945-a004945.	5.5	40
14	Synthesis of Functional Proteins Within Liposomes. <i>Methods in Molecular Biology</i> , 2010, 607, 243-256.	0.9	30
15	Construction of a Gene Screening System Using Giant Unilamellar Liposomes and a Fluorescence-Activated Cell Sorter. <i>Analytical Chemistry</i> , 2012, 84, 5017-5024.	6.5	26
16	Importance of Translation-Replication Balance for Efficient Replication by the Self-Encoded Replicase. <i>ChemBioChem</i> , 2008, 9, 3023-3028.	2.6	24
17	Identification of giant unilamellar vesicles with permeability to small charged molecules. <i>RSC Advances</i> , 2014, 4, 35224.	3.6	23
18	In Vitro Evolution of Unmodified 16S rRNA for Simple Ribosome Reconstitution. <i>ACS Synthetic Biology</i> , 2018, 7, 576-583.	3.8	21

#	ARTICLE	IF	CITATIONS
19	Production of giant unilamellar vesicles by the water-in-oil emulsion-transfer method without high internal concentrations of sugars. <i>Journal of Bioscience and Bioengineering</i> , 2018, 126, 540-545.	2.2	19
20	Directed Evolution of Proteins through In Vitro Protein Synthesis in Liposomes. <i>Journal of Nucleic Acids</i> , 2012, 2012, 1-11.	1.2	18
21	Effect of Liposome Size on Internal RNA Replication Coupled with Replicase Translation. <i>ChemBioChem</i> , 2016, 17, 1282-1289.	2.6	12
22	Detection and Analysis of Protein Synthesis and RNA Replication in Giant Liposomes. <i>Methods in Enzymology</i> , 2009, 464, 19-30.	1.0	11
23	Flow Cytometric Analysis To Evaluate Morphological Changes in Giant Liposomes As Observed in Electrofusion Experiments. <i>Langmuir</i> , 2018, 34, 88-96.	3.5	6
24	Exchange of Proteins in Liposomes through Streptolysin O Pores. <i>ChemBioChem</i> , 2021, 22, 1966-1973.	2.6	4
25	The Evolutionary Enhancement of Genotype-Phenotype Linkages in the Presence of Multiple Copies of Genetic Material. <i>ChemBioChem</i> , 2014, 15, 2281-2288.	2.6	2
26	Evolvability and Self-Replication of Genetic Information in Liposomes. , 2011, , 275-287.		2
27	Constructive Approaches for the Origin of Life. <i>Cellular Origin and Life in Extreme Habitats</i> , 2012, , 289-303.	0.3	1
28	2P270 Inner aqueous volume distributions of cell-size liposomes in consideration of the inner-compartmentalization (Native and artificial biomembranes-structure and properties, Poster) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3		
29	3P271 RNA-protein self-replicating system in liposome (The genesis of life, and biological) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 0.1		
30	3P214 Investigating bactericidal mechanism of antimicrobial peptides (13B. Biological & Artificial) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 0.1		