Tetsuya Yomo

List of Publications by Year
in descending order

171	5,818	61984	95266
papers	citations	43 h-index	68 g-index

173	173	173	4084
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adaptive Response of a Gene Network to Environmental Changes by Fitness-Induced Attractor Selection. PLoS ONE, 2006, 1, e49.	2.5	237
2	Expression of a cascading genetic network within liposomes. FEBS Letters, 2004, 576, 387-390.	2.8	202
3	Synthesis of functional protein in liposome. Journal of Bioscience and Bioengineering, 2001, 92, 590-593.	2.2	196
4	Protein folding by the effects of macromolecular crowding. Protein Science, 2004, 13, 125-133.	7.6	187
5	Replication of Genetic Information with Selfâ€Encoded Replicase in Liposomes. ChemBioChem, 2008, 9, 2403-2410.	2.6	159
6	Coupling of the fusion and budding of giant phospholipid vesicles containing macromolecules. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5942-5947.	7.1	148
7	Darwinian evolution in a translation-coupled RNA replication system within a cell-like compartment. Nature Communications, 2013, 4, 2494.	12.8	147
8	Ubiquity of log-normal distributions in intra-cellular reaction dynamics. Biophysics (Nagoya-shi,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	0.4	145
9	Universality and flexibility in gene expression from bacteria to human. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 3765-3769.	7.1	139
10	On the relation between fluctuation and response in biological systems. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 14086-14090.	7.1	137
11	Cell-Free Protein Synthesis inside Giant Unilamellar Vesicles Analyzed by Flow Cytometry. Langmuir, 2012, 28, 8426-8432.	3.5	124
12	In vitro evolution of Î±-hemolysin using a liposome display. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16796-16801.	7.1	123
13	Liposome display for in vitro selection and evolution of membrane proteins. Nature Protocols, 2014, 9, 1578-1591.	12.0	123
14	Femtoliter compartment in liposomes for in vitro selection of proteins. Analytical Biochemistry, 2006, 357, 128-136.	2.4	99
15	Isologous diversification: A theory of cell differentiation. Bulletin of Mathematical Biology, 1997, 59, 139-196.	1.9	94
16	Quantitative Study of the Structure of Multilamellar Giant Liposomes As a Container of Protein Synthesis Reaction. Langmuir, 2008, 24, 13540-13548.	3.5	90
17	Population Analysis of Structural Properties of Giant Liposomes by Flow Cytometry. Langmuir, 2009, 25, 10439-10443.	3.5	89
18	Cell division, differentiation and dynamic clustering. Physica D: Nonlinear Phenomena, 1994, 75, 89-102.	2.8	85

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19	Evolutionary molecular engineering by random elongation mutagenesis. Nature Biotechnology, 1999, 17, 58-61.	17.5	84
20	Isologous Diversification for Robust Development of Cell Society. Journal of Theoretical Biology, 1999, 199, 243-256.	1.7	79
21	Size control of giant unilamellar vesicles prepared from inverted emulsion droplets. Journal of Colloid and Interface Science, 2012, 376, 119-125.	9.4	78
22	Comparison of Sequence Reads Obtained from Three Next-Generation Sequencing Platforms. PLoS ONE, 2011, 6, e19534.	2.5	75
23	Transition from Positive to Neutral in Mutation Fixation along with Continuing Rising Fitness in Thermal Adaptive Evolution. PLoS Genetics, 2010, 6, e1001164.	3.5	74
24	Hostâ€“parasite oscillation dynamics and evolution in a compartmentalized RNA replication system. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4045-4050.	7.1	71
25	In Vitro Membrane Protein Synthesis Inside Cell-Sized Vesicles Reveals the Dependence of Membrane Protein Integration on Vesicle Volume. ACS Synthetic Biology, 2014, 3, 372-379.	3.8	70
26	Cooperative Adaptation to Establishment of a Synthetic Bacterial Mutualism. PLoS ONE, 2011, 6, e17105.	2.5	68
27	Stabilization of xylanase by random mutagenesis. FEBS Letters, 1993, 316, 123-127.	2.8	65
28	Quantifying epistatic interactions among the components constituting the protein translation system. Molecular Systems Biology, 2009, 5, 297.	7.2	62
29	Programmed Vesicle Fusion Triggers Gene Expression. Langmuir, 2011, 27, 13082-13090.	3.5	62
30	Solubility of artificial proteins with random sequences. FEBS Letters, 1996, 382, 21-25.	2.8	60
31	Cellular Compartment Model for Exploring the Effect of the Lipidic Membrane on the Kinetics of Encapsulated Biochemical Reactions. Langmuir, 2010, 26, 8544-8551.	3.5	60
32	Detection of Association and Fusion of Giant Vesicles Using a Fluorescence-Activated Cell Sorter. Langmuir, 2010, 26, 15098-15103.	3.5	54
33	Experimental Rugged Fitness Landscape in Protein Sequence Space. PLoS ONE, 2006, 1, e96.	2.5	53
34	Synthesis of milligram quantities of proteins using a reconstituted in vitro protein synthesis system. Journal of Bioscience and Bioengineering, 2014, 118, 554-557.	2.2	53
35	Stochasticity in Gene Expression in a Cell-Sized Compartment. ACS Synthetic Biology, 2015, 4, 566-576.	3.8	53
36	How selection affects phenotypic fluctuation. Molecular Systems Biology, 2009, 5, 264.	7.2	51

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37	Noisy cell growth rate leads to fluctuating protein concentration in bacteria. Physical Biology, 2009, 6, 036015.	1.8	51
38	Evolution of an Arbitrary Sequence in Solubility. Journal of Molecular Evolution, 2004, 58, 196-202.	1.8	49
39	Importance of Parasite RNA Species Repression for Prolonged Translation-Coupled RNA Self-Replication. Chemistry and Biology, 2012, 19, 478-487.	6.0	48
40	Quantification of structural properties of cell-sized individual liposomes by flow cytometry. Journal of Bioscience and Bioengineering, 2006, 102, 171-178.	2.2	47
41	Ongoing Phenotypic and Genomic Changes in Experimental Coevolution of RNA Bacteriophage Qî² and Escherichia coli. PLoS Genetics, 2011, 7, e1002188.	3.5	47
42	Evolvability of random polypeptides through functional selection within a small library. Protein Engineering, Design and Selection, 2002, 15, 619-626.	2.1	46
43	Sustainable proliferation of liposomes compatible with inner RNA replication. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 590-595.	7.1	46
44	On a Kinetic Origin of Heredity: Minority Control in a Replicating System with Mutually Catalytic Molecules. Journal of Theoretical Biology, 2002, 214, 563-576.	1.7	44
45	Growth rate-coordinated transcriptome reorganization in bacteria. BMC Genomics, 2013, 14, 808.	2.8	44
46	A controllable gene expression system in liposomes that includes a positive feedback loop. Molecular BioSystems, 2013, 9, 1282.	2.9	44
47	Defined DNA-Mediated Assemblies of Gene-Expressing Giant Unilamellar Vesicles. Langmuir, 2013, 29, 15309-15319.	3.5	42
48	Self-replication of circular DNA by a self-encoded DNA polymerase through rolling-circle replication and recombination. Scientific Reports, 2018, 8, 13089.	3.3	41
49	Gradual development of protein-like global structures through functional selection. Nature Structural Biology, 1999, 6, 743-746.	9.7	40
50	Can an Arbitrary Sequence Evolve Towards Acquiring a Biological Function?. Journal of Molecular Evolution, 2003, 56, 162-168.	1.8	40
51	Constructing Partial Models of Cells. Cold Spring Harbor Perspectives in Biology, 2010, 2, a004945-a004945.	5.5	40
52	Reaction dynamics analysis of a reconstituted Escherichia coli protein translation system by computational modeling. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1336-E1344.	7.1	40
53	Characterization of soluble artificial proteins with random sequences. FEBS Letters, 1998, 421, 147-151.	2.8	36
54	Importance of compartment formation for a self-encoding system. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 7514-7517.	7.1	35

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55	Comprehensive Analysis of the Effects of Escherichia coli ORFs on Protein Translation Reaction. Molecular and Cellular Proteomics, 2008, 7, 1530-1540.	3.8	32
56	Dynamic clustering of bacterial population. Physica D: Nonlinear Phenomena, 1994, 75, 81-88.	2.8	31
57	Compartmentalization in a Water-in-Oil Emulsion Repressed the Spontaneous Amplification of RNA by Qî² Replicase. Biochemistry, 2010, 49, 1809-1813.	2.5	31
58	A transcription and translation-coupled DNA replication system using rolling-circle replication. Scientific Reports, 2015, 5, 10404.	3.3	31
59	Nascent chain, mRNA, and ribosome complexes generated by a pure translation system. Biochemical and Biophysical Research Communications, 2007, 352, 372-377.	2.1	30
60	Construction of Escherichia coli gene expression level perturbation collection. Metabolic Engineering, 2009, 11, 56-63.	7.0	30
61	Synthesis of Functional Proteins Within Liposomes. Methods in Molecular Biology, 2010, 607, 243-256.	0.9	30
62	Hydrodynamic trapping of Tetrahymena thermophila for the long-term monitoring of cell behaviors. Lab on A Chip, 2012, 12, 3451.	6.0	30
63	Contribution of Silent Mutations to Thermal Adaptation of RNA Bacteriophage Qî². Journal of Virology, 2014, 88, 11459-11468.	3.4	30
64	Phenotypic convergence in bacterial adaptive evolution to ethanol stress. BMC Evolutionary Biology, 2015, 15, 180.	3.2	30
65	The grammatical rule for all DNA: Junk and coding sequences. Electrophoresis, 1991, 12, 103-108.	2.4	29
66	Plasticity of Fitness and Diversification Process During an Experimental Molecular Evolution. Journal of Molecular Evolution, 2001, 52, 502-509.	1.8	29
67	Cell-free protein synthesis from a single copy of DNA in a glass microchamber. Lab on A Chip, 2012, 12, 2704.	6.0	29
68	GroEL Binds Artificial Proteins with Random Sequences. Journal of Biological Chemistry, 2000, 275, 13755-13758.	3.4	28
69	Conformational change of the actomyosin complex drives the multiple stepping movement. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 9202-9206.	7.1	28
70	Kinetic Analysis of Î²-Galactosidase and Î²-Glucuronidase Tetramerization Coupled with Protein Translation. Journal of Biological Chemistry, 2011, 286, 22028-22034.	3.4	28
71	De novo design and synthesis of a 30-cistron translation-factor module. Nucleic Acids Research, 2017, 45, 10895-10905.	14.5	28
72	Effects of Compartment Size on the Kinetics of Intracompartmental Multimeric Protein Synthesis. ACS Synthetic Biology, 2012, 1, 431-437.	3.8	27

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73	Functional QÎ² replicase genetically fusing essential subunits EF-Ts and EF-Tu with Î²-subunit. Journal of Bioscience and Bioengineering, 2006, 101, 421-426.	2.2	26
74	Construction of a Gene Screening System Using Giant Unilamellar Liposomes and a Fluorescence-Activated Cell Sorter. Analytical Chemistry, 2012, 84, 5017-5024.	6.5	26
75	Liposome-Based Liquid Handling Platform Featuring Addition, Mixing, and Aliquoting of Femtoliter Volumes. PLoS ONE, 2014, 9, e101820.	2.5	26
76	Kinetic Analysis of the Entire RNA Amplification Process by QÎ² Replicase. Journal of Biological Chemistry, 2007, 282, 15516-15527.	3.4	25
77	Importance of Translationâ€“Replication Balance for Efficient Replication by the Selfâ€Encoded Replicase. ChemBioChem, 2008, 9, 3023-3028.	2.6	24
78	Using Imaging Flow Cytometry to Quantify and Optimize Giant Vesicle Production by Water-in-oil Emulsion Transfer Methods. Langmuir, 2019, 35, 2375-2382.	3.5	24
79	Insertion of foreign random sequences of 120 amino acid residues into an active enzyme. FEBS Letters, 1997, 402, 177-180.	2.8	23
80	Identification of giant unilamellar vesicles with permeability to small charged molecules. RSC Advances, 2014, 4, 35224.	3.6	23
81	Bacterial transcriptome reorganization in thermal adaptive evolution. BMC Genomics, 2015, 16, 802.	2.8	22
82	Cloning, nucleotide sequence, and expression in escherichia coli of DNA polymerase gene (polA) from thermus thermophilus HB8. Journal of Bioscience and Bioengineering, 1993, 76, 265-269.	0.9	20
83	Isologous diversification: A theory of cell differentiation. Bulletin of Mathematical Biology, 1997, 59, 139-196.	1.9	20
84	Cell-free Protein Synthesis in a Microchamber Revealed the Presence of an Optimum Compartment Volume for High-order Reactions. ACS Synthetic Biology, 2014, 3, 347-352.	3.8	20
85	Directed evolution of cell size in Escherichia coli. BMC Evolutionary Biology, 2014, 14, 257.	3.2	19
86	Positive roles of compartmentalization in internal reactions. Current Opinion in Chemical Biology, 2014, 22, 12-17.	6.1	19
87	Liposomeâ€Based in Vitro Evolution of Aminoacylâ€tRNA Synthetase for Enhanced Pyrrolysine Derivative Incorporation. ChemBioChem, 2015, 16, 1797-1802.	2.6	19
88	Constructive Approaches for Understanding the Origin of Self-Replication and Evolution. Life, 2016, 6, 26.	2.4	19
89	A decay effect of the growth rate associated with genome reduction in Escherichia coli. BMC Microbiology, 2018, 18, 101.	3.3	19
90	Fate of a mutant emerging at the initial stage of evolution. Researches on Population Ecology, 1996, 38, 231-237.	0.9	18

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91	Directed Evolution of Proteins throughIn VitroProtein Synthesis in Liposomes. Journal of Nucleic Acids, 2012, 2012, 1-11.	1.2	18
92	Gene expression scaled by distance to the genome replication site. Molecular BioSystems, 2014, 10, 375-379.	2.9	18
93	Evolutionary Consequence of a Trade-Off between Growth and Maintenance along with Ribosomal Damages. PLoS ONE, 2015, 10, e0135639.	2.5	17
94	A design principle for a single-stranded RNA genome that replicates with less double-strand formation. Nucleic Acids Research, 2015, 43, 8033-8043.	14.5	17
95	Global coordination in adaptation to gene rewiring. Nucleic Acids Research, 2015, 43, 1304-1316.	14.5	17
96	Synthesis and characterization of 1-substituted 5-alkylphenazine derivatives carrying functional groups. FEBS Journal, 1989, 179, 293-298.	0.2	16
97	Statistical analysis of discrete encapsulation of nanomaterials in colloidal capsules. Analytical Methods, 2012, 4, 1648.	2.7	15
98	Mathematical model allowing the coexistence of closely related competitors at the initial stage of evolution. Researches on Population Ecology, 1996, 38, 239-247.	0.9	14
99	A protocell with fusion and division. Biochemical Society Transactions, 2019, 47, 1909-1919.	3.4	14
100	Preparation and kinetic properties of 5-ethylphenazine - poly(ethylene glycol) - NAD+ conjugate, a unique catalyst having an intramolecular reaction step. FEBS Journal, 1989, 179, 299-305.	0.2	13
101	A reduced genome decreases the host carrying capacity for foreign DNA. Microbial Cell Factories, 2014, 13, 49.	4.0	13
102	Molecular Clock of Neutral Mutations in a Fitness-Increasing Evolutionary Process. PLoS Genetics, 2015, 11, e1005392.	3.5	13
103	Adaptive Evolution of an Artificial RNA Genome to a Reduced Ribosome Environment. ACS Synthetic Biology, 2015, 4, 292-298.	3.8	13
104	Genomic confirmation of nutrientâ€dependent mutability of mutators in Escherichia coli. Genes To Cells, 2015, 20, 972-981.	1.2	12
105	Shape Transformations of Lipid Vesicles by Insertion of Bulky-Head Lipids. PLoS ONE, 2015, 10, e0132963.	2.5	12
106	Effect of Liposome Size on Internal RNA Replication Coupled with Replicase Translation. ChemBioChem, 2016, 17, 1282-1289.	2.6	12
107	Automated in vitro evolution of a translation-coupled RNA replication system in a droplet flow reactor. Scientific Reports, 2018, 8, 11867.	3.3	12
108	Periodic Pattern of Genetic and Fitness Diversity during Evolution of an Artificial Cell-Like System. Molecular Biology and Evolution, 2015, 32, msv189.	8.9	11

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109	Identification of Two Forms of QÎ² Replicase with Different Thermal Stabilities but Identical RNA Replication Activity. Journal of Biological Chemistry, 2010, 285, 37210-37217.	3.4	10
110	Kinetic model of doubleâ€stranded RNA formation during long RNA replication by QÎ² replicase. FEBS Letters, 2013, 587, 2565-2571.	2.8	10
111	Adaptation of a Cyanobacterium to a Biochemically Rich Environment in Experimental Evolution as an Initial Step toward a Chloroplast-Like State. PLoS ONE, 2014, 9, e98337.	2.5	10
112	Functional specialization in regulation and quality control in thermal adaptive evolution. Genes To Cells, 2015, 20, 943-955.	1.2	9
113	Preparation and kinetic properties of 5-ethylphenazine-poly(ethylene-glycol)-glutamate-dehydrogenase conjugate. A semisynthetic NADH oxidase. FEBS Journal, 1991, 196, 343-348.	0.2	8
114	Emergence of Polyproline II-Like Structure at Early Stages of Experimental Evolution from Random Polypeptides. Molecular Biology and Evolution, 2008, 25, 1113-1119.	8.9	8
115	Adaptation and Diversification of an RNA Replication System under Initiationâ€or Terminationâ€Impaired Translational Conditions. ChemBioChem, 2016, 17, 1229-1232.	2.6	8
116	Properties of Artificial Proteins with Random Sequencesa. Annals of the New York Academy of Sciences, 1998, 864, 131-135.	3.8	7
117	Fractal-shaped microchannel design for a kinetic analysis of biochemical reaction in a delay line. Microfluidics and Nanofluidics, 2012, 13, 273-278.	2.2	7
118	Reliable End-to-End Molecular Communication with Packet Replication and Retransmission. , 2015, , .		7
119	Primordial mimicry induces morphological change in Escherichia coli. Communications Biology, 2022, 5, 24.	4.4	7
120	Adaptive LSH based on the particle swarm method with the attractor selection model for fast approximation of Gaussian process regression. Artificial Life and Robotics, 2014, 19, 220-226.	1.2	6
121	Influence of adaptive mutations, from thermal adaptation experiments, on the infection cycle of RNA bacteriophage QÎ². Archives of Virology, 2018, 163, 2655-2662.	2.1	6
122	Inherent characteristics of gene expression for buffering environmental changes without the corresponding transcriptional regulations. Biophysics (Nagoya-shi, Japan), 2006, 2, 63-70.	0.4	6
123	Principles for designing enzyme-like catalysts based on the rate-acceleration mechanisms of semisynthetic oxidases. FEBS Journal, 1992, 203, 543-550.	0.2	5
124	How small can the difference among competitors be for coexistence to occur. Researches on Population Ecology, 1998, 40, 223-226.	0.9	5
125	In vitro directed evolution of alpha-hemolysin by liposome display. Biophysics (Nagoya-shi,) Tj ETQq1 1 0.784314 rgBT /Overlock	0.4	5
126	Replication of partial double-stranded RNAs by QÎ² replicase. Biochemical and Biophysical Research Communications, 2015, 467, 293-296.	2.1	5

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127	Giant Vesicles Produced with Phosphatidylcholines (PCs) and Phosphatidylethanolamines (PEs) by Water-in-Oil Inverted Emulsions. Life, 2021, 11, 223.	2.4	5
128	Preparation and kinetic properties of 5-ethylphenazine-glucose-dehydrogenase-NAD+ conjugate, a semisynthetic glucose oxidase. FEBS Journal, 1991, 200, 759-766.	0.2	4
129	Preparation and kinetic properties of 5-ethylphenazine-lactate-dehydrogenase-NAD+ conjugate, a semisynthetic lactate oxidase showing a hide-and-seek effect. FEBS Journal, 1992, 203, 533-542.	0.2	4
130	A simple comparison of the extrinsic noise in gene expression between native and foreign regulations in Escherichia coli. Biochemical and Biophysical Research Communications, 2017, 486, 852-857.	2.1	4
131	Photoinducible Azobenzene trimethylammonium bromide (AzoTAB)-mediated giant vesicle fusion compatible with synthetic protein translation reactions. Biochemical and Biophysical Research Communications, 2022, 618, 113-118.	2.1	4
132	Effects of ribosomes on the kinetics of QÎ² replication. FEBS Letters, 2014, 588, 117-123.	2.8	3
133	CleanSeq: A Pipeline for Contamination Detection, Cleanup, and Mutation Verifications from Microbial Genome Sequencing Data. Applied Sciences (Switzerland), 2022, 12, 6209.	2.5	3
134	Development of an Automated UV Irradiation Device for Microbial Cell Culture. SLAS Technology, 2019, 24, 342-348.	1.9	2
135	The requirement of cellularity for abiogenesis. Computational and Structural Biotechnology Journal, 2021, 19, 2202-2212.	4.1	2
136	Insight into the sequence specificity of a probe on an Affymetrix GeneChip by titration experiments using only one oligonucleotide. Biophysics (Nagoya-shi, Japan), 2007, 3, 47-56.	0.4	1
137	Promenade in the Sequence Space of Bacterial Catalase by Random Mutagenesis. Annals of the New York Academy of Sciences, 1992, 672, 103-105.	3.8	0
138	Gradual development of folding ability through functional selection. , 1999, , .		0
139	S3d1-2 Relevance of phenotypic fluctuation to evolution(S3-d1: "Phenotype Dynamics, Fluctuation, and) Tj ETQq1 1 0.784314 rgBT /Ov 46, S135.	0.1	0
140	1P407 Fitness induced gene expression of chloramphenicol-resistant Escherichia coli strain(16.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22 Butsuri, 2006, 46, S248.	0.1	0
141	2P438 Strategy to evaluate the effect of individual E. coli protein on the protein translation machinery(48. Bioinformatics, genomics and proteomics (II),Poster Session,Abstract,Meeting Program) Tj ETQq1 1 0.784314 rgBT /Ov	0.1	0
142	3P354 Analysis of the relationship between noise in gene expression and the regulatory sturucture in amino acid biosynthesis pathway(Others,Poster Presentations). Seibutsu Butsuri, 2007, 47, S291.	0.1	0
143	1P234 The gene expression transition dynamics of E.coli in the symbiotic system with D.discoideum(Bioinformatics-functional genomics,Poster Presentations). Seibutsu Butsuri, 2007, 47, S82.	0.1	0
144	3P271 RNA-protein self-replicating system in liposome(The genesis of life, and biological) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (ev	0.1	0

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145	3P274 Experimental evolution of a primordial DNA binding protein(Proteins- protein engineering, and) Tj ETQq1 1 0.784314 rgBT /Ov	0.1	0
146	3P-278 Requirements for the efficient self-replication system of genetic information(The 46th Annual) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.1	0
147	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) Tj ETQq1 1 0.784314 rgBT /Overlock	0.1	0
148	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). Seibutsu Butsuri, 2008, 48, S170.	0.1	0
149	2P-228 What is the condition of realizing a self-replication system of genetic information in vitro?(Origin of life & Evolution,The 47th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2009, 49, S143.	0.1	0
150	1P-183 Size control of uniamellar giantvesicle using microfluidics(Biol & Artifi memb.:Structure &) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.1	0
151	2P-143 Stochastic gene expression induced population selection promotes adaptation to nutrient depletion(Cell biology,The 47th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2009, 49, S128.	0.1	0
152	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) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.1	0
153	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). Seibutsu Butsuri, 2010, 50, S31.	0.1	0
154	1P291 1H1325 Effects of cell size on internal self-replication of genetic information(Origin of life &) Tj ETQq0 0 0 rgBT /Overlock 10 Butsuri, 2010, 50, S71.	0.1	0
155	2P250 Detection of association and fusion of giant vesicles using fluorescence-activated cell sorter(The 48th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2010, 50, S126-S127.	0.1	0
156	3P213 Single Cell Analysis on a Synthetic Toggle Switch Sensitive to Environmental Perturbation(Cell) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.1	0
157	1P286 1H1310 Construction of an evolvable self-replication system of genetic information(Origin of) Tj ETQq1 1 0.784314 rgBT /Ove Seibutsu Butsuri, 2010, 50, S70.	0.1	0
158	2P102 In vitro selection for covalent binding via disulfide interchange with ribosome display(The 48th) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.1	0
159	Experimental Approach for Early Evolution of Protein Function. , 2011, , 139-153.		0
160	3N1148 Construction of an Artificial Reaction System Capable of Darwinian Evolution(Protein :) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14	0.1	0
161	1G1534 Darwinian Evolution of artificial self-replication system(Cell Biology I,Oral Presentation,The) Tj ETQq1 1 0.784314 rgBT /Overl	0.1	0
162	3P214 Investigating bactericidal mechanism of antimicrobial peptids(13B. Biological & Artifical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	0.1	0

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163	2P262 Oscillation dynamics of Host-Parasite population in an artificial cell-like system(20. Origin of) Tj ETQq1 1 0.784314 rgBT /Overlo	0.1	0
164	Liposome Display: In Vitro Directed Evolution of Membrane Proteins. Seibutsu Butsuri, 2014, 54, 146-149.	0.1	0
165	Thermodynamics-Based Entropy Adjustment for Robust Self-Organized Network Controls. , 2014, , .		0
166	Reliable End-to-End Molecular Communication with Packet Replication and Retransmission. , 2014, , .		0
167	Free-Energy-Based Design Policy for Robust Network Control against Environmental Fluctuation. Scientific World Journal, The, 2015, 2015, 1-12.	2.1	0
168	Simple Identification of Two Causes of Noise in an Aptazyme System by Monitoring Cell-Free Transcription. Methods in Enzymology, 2015, 550, 93-107.	1.0	0
169	Evolutionary dynamics of a polymorphic self-replicator population with a finite population size and hyper mutation rate. Journal of Theoretical Biology, 2015, 382, 298-308.	1.7	0
170	Inference of fitness values and putative appearance time points for evolvable self-replicating molecules from time series of occurrence frequencies in an evolution reactor. Journal of Theoretical Biology, 2016, 401, 38-42.	1.7	0
171	1C33 Volume Dependence of Cell-free Protein Synthesis Using a Glass Microchamber. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 91-92.	0.0	0