Shinya Sugimoto

List of Publications by Year
in descending order

43 papers	1,793 citations	411340 20 h-index	388640 36 g-index
44 all docs	44 docs citations	44 times ranked	3379 citing authors

#	Article	IF	Citations
1	Staphylococcus aureus utilizes environmental RNA as a building material in specific polysaccharide-dependent biofilms. Npj Biofilms and Microbiomes, 2022, 8, 17.	2.9	10
2	Hierarchical Model for the Role of J-Domain Proteins in Distinct Cellular Functions. Journal of Molecular Biology, 2021, 433, 166750.	2.0	7
3	Leptothrix cholodnii Response to Nutrient Limitation. Frontiers in Microbiology, 2021, 12, 691563.	1.5	4
4	Polyfunctional Nanofibril Appendages Mediate Attachment, Filamentation, and Filament Adaptability in <i>Leptothrix cholodnii</i>. ACS Nano, 2020, 14, 5288-5297.	7.3	11
5	Observation of Bone Tissue Metabolism and Bacterial Biofilm in Aqueous Solution Using ASEM. Microscopy and Microanalysis, 2020, 26, 1340-1341.	0.2	0
6	Redundant and Distinct Roles of Secreted Protein Eap and Cell Wall-Anchored Protein SasG in Biofilm Formation and Pathogenicity of Staphylococcus aureus. Infection and Immunity, 2019, 87, .	1.0	22
7	Cryo-TEM and Atmospheric SEM (ASEM) for the Observation of Samples in Hydrophilic Conditions. Vacuum and Surface Science, 2019, 62, 198-204.	0.0	0
8	Broad impact of extracellular DNA on biofilm formation by clinically isolated Methicillin-resistant and -sensitive strains of Staphylococcus aureus. Scientific Reports, 2018, 8, 2254.	1.6	105
9	CLEM of Neurons, Tissues and Biofilms immersed in Liquid using The Atmospheric Scanning Electron Microscope (ASEM): Dual Gold-Labeling. Microscopy and Microanalysis, 2018, 24, 340-341.	0.2	0
10	Inhibitory effects of Myricetin derivatives on curli-dependent biofilm formation in Escherichia coli. Scientific Reports, 2018, 8, 8452.	1.6	48
11	The Composition and Structure of Biofilms Developed by Propionibacterium acnes Isolated from Cardiac Pacemaker Devices. Frontiers in Microbiology, 2018, 9, 182.	1.5	51
12	Multitasking of Hsp70 chaperone in the biogenesis of bacterial functional amyloids. Communications Biology, 2018, 1, 52.	2.0	16
13	Correlative lightâ€“electron microscopy in liquid usingÂan inverted SEM (ASEM). Methods in Cell Biology, 2017, 140, 187-213.	0.5	2
14	Norgestimate inhibits staphylococcal biofilm formation and resensitizes methicillin-resistant Staphylococcus aureus to Î²-lactam antibiotics. Npj Biofilms and Microbiomes, 2017, 3, 18.	2.9	25
15	é•ä¼å¢ç™ºç¾ã®æ•ã‚‰ãŽã‚'çž¬æ™‚ã«å•è¦–åŒ–ã™ã‚‹æ–°æ‰‹æ³•ã®é–‹ç™º. Kagaku To Seibutsu, 2017, 55, 573-579.	[illegible]	0
16	OM-III-3Development of atmospheric scanning electron microscope (ASEM) and its applications. Microscopy (Oxford, England), 2016, 65, i19.2-i19.	0.7	0
17	OB-IV-2Imaging of bacterial biofilms in solution by atmospheric scanning electron microscopy. Microscopy (Oxford, England), 2016, 65, i17.2-i17.	0.7	0
18	Imaging of bacterial multicellular behaviour in biofilms in liquid by atmospheric scanning electron microscopy. Scientific Reports, 2016, 6, 25889.	1.6	66

#	Article	IF	Citations
19	Thioflavin T as a fluorescence probe for monitoring RNA metabolism at molecular and cellular levels. Nucleic Acids Research, 2015, 43, e92-e92.	6.5	73
20	A refined technique for extraction of extracellular matrices from bacterial biofilms and its applicability. Microbial Biotechnology, 2015, 8, 392-403.	2.0	106
21	Novel Strategy for Biofilm Inhibition by Using Small Molecules Targeting Molecular Chaperone DnaK. Antimicrobial Agents and Chemotherapy, 2015, 59, 633-641.	1.4	72
22	Immuno-Electron Microscopy of Primary Cell Cultures from Genetically Modified Animals in Liquid by Atmospheric Scanning Electron Microscopy. Microscopy and Microanalysis, 2014, 20, 469-483.	0.2	25
23	A Simple Assay for Measuring Catalase Activity: A Visual Approach. Scientific Reports, 2013, 3, 3081.	1.6	195
24	Glucose Triggers ATP Secretion from Bacteria in a Growth-Phase-Dependent Manner. Applied and Environmental Microbiology, 2013, 79, 2328-2335.	1.4	59
25	Staphylococcus epidermidis Esp Degrades Specific Proteins Associated with Staphylococcus aureus Biofilm Formation and Host-Pathogen Interaction. Journal of Bacteriology, 2013, 195, 1645-1655.	1.0	184
26	Effects of Bacteriocins on Methicillin-Resistant Staphylococcus aureus Biofilm. Antimicrobial Agents and Chemotherapy, 2013, 57, 5572-5579.	1.4	233
27	Cloning, expression and purification of extracellular serine protease Esp, a biofilm-degrading enzyme, from Staphylococcus epidermidis. Journal of Applied Microbiology, 2011, 111, 1406-1415.	1.4	15
28	Role of Fibronectin-Binding Proteins A and B in<i>In Vitro</i>Cellular Infections and<i>In Vivo</i>Septic Infections by Staphylococcus aureus. Infection and Immunity, 2011, 79, 2215-2223.	1.0	77
29	Positive Cooperativity of the p97 AAA ATPase Is Critical for Essential Functions. Journal of Biological Chemistry, 2011, 286, 15815-15820.	1.6	42
30	AAA+ Chaperone ClpX Regulates Dynamics of Prokaryotic Cytoskeletal Protein FtsZ. Journal of Biological Chemistry, 2010, 285, 6648-6657.	1.6	44
31	Improvement of Multiple-Stress Tolerance and Lactic Acid Production in<i>Lactococcus lactis</i>NZ9000 under Conditions of Thermal Stress by Heterologous Expression of<i>Escherichia coli dnaK</i>. Applied and Environmental Microbiology, 2010, 76, 4277-4285.	1.4	88
32	Construction of Escherichia coli dnaK-deletion mutant infected by Î»DE3 for overexpression and purification of recombinant GrpE proteins. Protein Expression and Purification, 2008, 60, 31-36.	0.6	8
33	Molecular Chaperones in Lactic Acid Bacteria: Physiological Consequences and Biochemical Properties. Journal of Bioscience and Bioengineering, 2008, 106, 324-336.	1.1	57
34	<i>In Vivo</i>and<i>in Vitro</i>Complementation Study Comparing the Function of DnaK Chaperone Systems from Halophilic Lactic Acid Bacterium<i>Tetragenococcus halophilus</i>and<i>Escherichia coli</i>. Bioscience, Biotechnology and Biochemistry, 2008, 72, 811-822.	0.6	13
35	ã‚°ãƒ©ãƒé™½æ€§ç´°èŒã®æ–°ã•—ã¸å^†å® ã‚·ãƒ£ãƒšãƒãƒ³ã‚·ã‚¹ãƒ†ãƒ. Kagaku To Seibutsu, 2008, 46, 237-244.	0.0	0
36	The proper ratio of GrpE to DnaK is important for protein quality control by the DnaKâ€“DnaJâ€“GrpE chaperone system and for cell division. Microbiology (United Kingdom), 2008, 154, 1876-1885.	0.7	48

#	Article	IF	Citations
37	A gram-negative characteristic segment inEscherichia coliDnaK is essential for the ATP-dependent cooperative function with the co-chaperones DnaJ and GrpE. FEBS Letters, 2007, 581, 2993-2999.	1.3	21
38	Structural and Functional Conversion of Molecular Chaperone ClpB from the Gram-Positive Halophilic Lactic Acid Bacterium Tetragenococcus halophilus Mediated by ATP and Stress. Journal of Bacteriology, 2006, 188, 8070-8078.	1.0	22
39	Reconstitution and function of Tetragenococcus halophila chaperonin 60 tetradecamer. Journal of Bioscience and Bioengineering, 2005, 99, 30-37.	1.1	6
40	Effect of heterologous expression of molecular chaperone DnaK from Tetragenococcus halophilus on salinity adaptation of Escherichia coli. Journal of Bioscience and Bioengineering, 2003, 96, 129-133.	1.1	17
41	Molecular characterization and regulatory analysis of dnaK operon of halophilic lactic acid bacterium Tetragenococcus halophila. Journal of Bioscience and Bioengineering, 2002, 93, 388-394.	1.1	16
42	Molecular Characterization and Regulatory Analysis of dnaK Operon of Halophilic Lactic Acid Bacterium Tetragenococcus halophila.. Journal of Bioscience and Bioengineering, 2002, 93, 388-394.	1.1	2
43	Molecular characterization and regulatory analysis of dnaK operon of halophilic lactic acid bacterium Tetragenococcus halophila. Journal of Bioscience and Bioengineering, 2002, 93, 388-94.	1.1	3