Seok Hoon Hong

List of Publications by Year
in descending order

46 papers	3,020 citations	279487 23 h-index	360668 35 g-index
47 all docs	47 docs citations	47 times ranked	3762 citing authors

#	Article	IF	Citations
1	Cryptic prophages help bacteria cope with adverse environments. Nature Communications, 2010, 1, 147.	5.8	560
2	A new type V toxin-antitoxin system where mRNA for toxin GhoT is cleaved by antitoxin GhoS. Nature Chemical Biology, 2012, 8, 855-861.	3.9	268
3	Evolution of translation machinery in recoded bacteria enables multi-site incorporation of nonstandard amino acids. Nature Biotechnology, 2015, 33, 1272-1279.	9.4	234
4	Antitoxin MqsA helps mediate the bacterial general stress response. Nature Chemical Biology, 2011, 7, 359-366.	3.9	201
5	Cell-free protein synthesis from genomically recoded bacteria enables multisite incorporation of noncanonical amino acids. Nature Communications, 2018, 9, 1203.	5.8	165
6	Synthetic quorum-sensing circuit to control consortial biofilm formation and dispersal in a microfluidic device. Nature Communications, 2012, 3, 613.	5.8	152
7	Effect of electric currents on bacterial detachment and inactivation. Biotechnology and Bioengineering, 2008, 100, 379-386.	1.7	140
8	Bacterial persistence increases as environmental fitness decreases. Microbial Biotechnology, 2012, 5, 509-522.	2.0	137
9	Cell-free Protein Synthesis from a Release Factor 1 Deficient Escherichia coli Activates Efficient and Multiple Site-specific Nonstandard Amino Acid Incorporation. ACS Synthetic Biology, 2014, 3, 398-409.	1.9	133
10	Non-standard amino acid incorporation into proteins using Escherichia coli cell-free protein synthesis. Frontiers in Chemistry, 2014, 2, 34.	1.8	115
11	Engineering biofilm formation and dispersal. Trends in Biotechnology, 2011, 29, 87-94.	4.9	111
12	Reconfiguring the Quorum-Sensing Regulator SdiA of Escherichia coli To Control Biofilm Formation via Indole and N -Acylhomoserine Lactones. Applied and Environmental Microbiology, 2009, 75, 1703-1716.	1.4	106
13	Type <scp>II</scp> toxin/antitoxin <scp>MqsR</scp>/<scp>MqsA</scp> controls type <scp>V</scp> toxin/antitoxin <scp>GhoT</scp>/<scp>GhoS</scp>. Environmental Microbiology, 2013, 15, 1734-1744.	1.8	100
14	Improving Cellâ€Free Protein Synthesis through Genome Engineering of Escherichia coli Lacking Release Factor 1. ChemBioChem, 2015, 16, 844-853.	1.3	77
15	Probiotic Escherichia coli inhibits biofilm formation of pathogenic E. coli via extracellular activity of DegP. Scientific Reports, 2018, 8, 4939.	1.6	70
16	Controlling biofilm formation, prophage excision and cell death by rewiring global regulator Hâ€NS of Escherichia coli. Microbial Biotechnology, 2010, 3, 344-356.	2.0	66
17	Engineering global regulator Hha ofEscherichia colito control biofilm dispersal. Microbial Biotechnology, 2010, 3, 717-728.	2.0	52
18	Rapid production and characterization of antimicrobial colicins using Escherichia coli-based cell-free protein synthesis. Synthetic Biology, 2018, 3, ysy004.	1.2	42

#	Article	IF	Citations
19	Prevention of Pseudomonas aeruginosa adhesion by electric currents. Biofouling, 2011, 27, 217-224.	0.8	37
20	Incorporation of non-standard amino acids into proteins: challenges, recent achievements, and emerging applications. Applied Microbiology and Biotechnology, 2019, 103, 2947-2958.	1.7	34
21	Cell-free protein synthesis for producing â€˜difficult-to-expressâ€™ proteins. Biochemical Engineering Journal, 2018, 138, 156-164.	1.8	33
22	Cordycepin induces apoptosis of human ovarian cancer cells by inhibiting CCL5-mediated Akt/NF-ÎºB signaling pathway. Cell Death Discovery, 2018, 4, 62.	2.0	32
23	Controlling biofilms using synthetic biology approaches. Biotechnology Advances, 2020, 40, 107518.	6.0	31
24	The probiotic, <scp>Leuconostoc mesenteroides</scp>, inhibits <scp>Listeria monocytogenes</scp> biofilm formation. Journal of Food Safety, 2020, 40, e12750.	1.1	22
25	Investigating the effects of nisin and free fatty acid combined treatment on Listeria monocytogenes inactivation. LWT - Food Science and Technology, 2020, 133, 110115.	2.5	22
26	Optimizing Cell-Free Protein Synthesis for Increased Yield and Activity of Colicins. Methods and Protocols, 2019, 2, 28.	0.9	19
27	Undecanoic Acid, Lauric Acid, and N-Tridecanoic Acid Inhibit Escherichia coli Persistence and Biofilm Formation. Journal of Microbiology and Biotechnology, 2021, 31, 130-136.	0.9	14
28	Canavalia ensiformis-derived lectin inhibits biofilm formation of enterohemorrhagicEscherichia coliandListeria monocytogenes. Journal of Applied Microbiology, 2019, 126, 300-310.	1.4	12
29	Sustained Release of Phosphates From Hydrogel Nanoparticles Suppresses Bacterial Collagenase and Biofilm Formation in vitro. Frontiers in Bioengineering and Biotechnology, 2019, 7, 153.	2.0	8
30	Medium chain unsaturated fatty acid ethyl esters inhibit persister formation of Escherichia coli via antitoxin HipB. Applied Microbiology and Biotechnology, 2018, 102, 8511-8524.	1.7	7
31	Engineering <scp>Escherichia coli</scp> to produce and secrete colicins for rapid and selective biofilm cell killing. AICHE Journal, 2021, 67, e17466.	1.8	6
32	An in vitro tissue model for screening sustained release of phosphate-based therapeutic attenuation of pathogen-induced proteolytic matrix degradation. Journal of Materials Chemistry B, 2020, 8, 2454-2465.	2.9	3
33	Numerical analysis on plasma characteristics of high power plasma torch of hollow electrode type for waste treatment. , 0, , .		2
34	â€œCell-Free Synthetic Biologyâ€• Synthetic Biology Meets Cell-Free Protein Synthesis. Methods and Protocols, 2019, 2, 80.	0.9	2
35	Establishing Efficient Bisphenol A Degradation by Engineering Shewanella oneidensis. Industrial & Engineering Chemistry Research, 2021, 60, 16864-16873.	1.8	2
36	Cell-free synthetic biology as an emerging biotechnology. , 2022, , 397-414.		2

#	Article	IF	Citations
37	Effects of anode nozzle geometry on ambient air entrainment into thermal plasma jets generated by a non-transferred plasma torch. , 0, , .		1
38	Guest Editorial Special Issue on Plenary and Invited Papers From ICOPS 2003. IEEE Transactions on Plasma Science, 2004, 32, 2-3.	0.6	1
39	Design and Experiments of Graded Thermal Barrier Coatings by Plasma Sprayings. , 1998, , .		1
40	LTE And Non-LTE Numerical Modelings For Characterization Of Inductively Coupled Plasma Torches. , 0, , .		0
41	Numerical simulation on MARFE development in a diverted tokamak with a coupled plasma, neutral, and impurity transport code. , 0, , .		0
42	Numerical analysis on neutral beam injection scenario for advanced tokamak operation of KSTAR tokamak. , 0, , .		0
43	Estimation of the effects of operating pressure on the degree of non-equilibrium in DC-RF hybrid plasma jets using the Boltzmann plot method. , 0, , .		0
44	Water-cooled electrostatic probe measurements on the temperature distributions of electron and heavy particle in DC-RF hybrid plasma jets. , 0, , .		0
45	A Design Study on a 30-KW Inductively Coupled Thermal Plasma Torch for Material Processing. IEEE International Conference on Plasma Science, 2005, , .	0.0	0
46	Development of Fabrication Processes for Tubular Solid Oxide Fuel Cell (SOFC) by Plasma Spraying. , 1998, , .		0