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	Cell-free synthetic biology as an emerging biotechnology. , 2022, , 397-414.		2
2	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
3	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
4	Establishing Efficient Bisphenol A Degradation by Engineering Shewanella oneidensis. Industrial & Engineering Chemistry Research, 2021, 60, 16864-16873.	1.8	2
5	The probiotic, <scp>Leuconostoc mesenteroides</scp>, inhibits <scp>Listeria monocytogenes</scp> biofilm formation. Journal of Food Safety, 2020, 40, e12750.	1.1	22
6	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
7	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
8	Controlling biofilms using synthetic biology approaches. Biotechnology Advances, 2020, 40, 107518.	6.0	31
9	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
10	â€œCell-Free Synthetic Biologyâ€: Synthetic Biology Meets Cell-Free Protein Synthesis. Methods and Protocols, 2019, 2, 80.	0.9	2
11	Optimizing Cell-Free Protein Synthesis for Increased Yield and Activity of Colicins. Methods and Protocols, 2019, 2, 28.	0.9	19
12	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
13	Canavalia ensiformis-derived lectin inhibits biofilm formation of enterohemorrhagicEscherichia coliandListeria monocytogenes. Journal of Applied Microbiology, 2019, 126, 300-310.	1.4	12
14	Probiotic Escherichia coli inhibits biofilm formation of pathogenic E. coli via extracellular activity of DegP. Scientific Reports, 2018, 8, 4939.	1.6	70
15	Cell-free protein synthesis from genomically recoded bacteria enables multisite incorporation of noncanonical amino acids. Nature Communications, 2018, 9, 1203.	5.8	165
16	Rapid production and characterization of antimicrobial colicins using Escherichia coli-based cell-free protein synthesis. Synthetic Biology, 2018, 3, ysy004.	1.2	42
17	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
18	Cell-free protein synthesis for producing â€˜difficult-to-expressâ€™ proteins. Biochemical Engineering Journal, 2018, 138, 156-164.	1.8	33

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19	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
20	Evolution of translation machinery in recoded bacteria enables multi-site incorporation of nonstandard amino acids. Nature Biotechnology, 2015, 33, 1272-1279.	9.4	234
21	Improving Cellâ€Free Protein Synthesis through Genome Engineering of Escherichia coli Lacking Release Factor 1. ChemBioChem, 2015, 16, 844-853.	1.3	77
22	Non-standard amino acid incorporation into proteins using Escherichia coli cell-free protein synthesis. Frontiers in Chemistry, 2014, 2, 34.	1.8	115
23	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
24	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
25	Synthetic quorum-sensing circuit to control consortial biofilm formation and dispersal in a microfluidic device. Nature Communications, 2012, 3, 613.	5.8	152
26	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
27	Bacterial persistence increases as environmental fitness decreases. Microbial Biotechnology, 2012, 5, 509-522.	2.0	137
28	Prevention of Pseudomonas aeruginosa adhesion by electric currents. Biofouling, 2011, 27, 217-224.	0.8	37
29	Antitoxin MqsA helps mediate the bacterial general stress response. Nature Chemical Biology, 2011, 7, 359-366.	3.9	201
30	Engineering biofilm formation and dispersal. Trends in Biotechnology, 2011, 29, 87-94.	4.9	111
31	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
32	Engineering global regulator Hha ofEscherichia colito control biofilm dispersal. Microbial Biotechnology, 2010, 3, 717-728.	2.0	52
33	Cryptic prophages help bacteria cope with adverse environments. Nature Communications, 2010, 1, 147.	5.8	560
34	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
35	Effect of electric currents on bacterial detachment and inactivation. Biotechnology and Bioengineering, 2008, 100, 379-386.	1.7	140
36	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

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