

Bong Hyun Sung

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65

papers

1,665

citations

26

h-index

39

g-index

69

ext. papers

2,064

ext. citations

6.7

avg, IF

4.79

L-index

#	Paper	IF	Citations
65	Buforins: histone H2A-derived antimicrobial peptides from toad stomach. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009 , 1788, 1564-9	3.8	136
64	Minimization of the Escherichia coli genome using a Tn5-targeted Cre/loxP excision system. <i>Nature Biotechnology</i> , 2002 , 20, 1018-23	44.5	127
63	A cancer specific cell-penetrating peptide, BR2, for the efficient delivery of an scFv into cancer cells. <i>PLoS ONE</i> , 2013 , 8, e66084	3.7	79
62	Rapid and efficient construction of markerless deletions in the Escherichia coli genome. <i>Nucleic Acids Research</i> , 2008 , 36, e84	20.1	69
61	Bacterial Valorization of Lignin: Strains, Enzymes, Conversion Pathways, Biosensors, and Perspectives. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 209	5.8	66
60	In-situ catalytic pyrolysis of lignin in a bench-scale fixed bed pyrolyzer. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 54, 447-453	6.3	63
59	Phenotypic engineering by reprogramming gene transcription using novel artificial transcription factors in Escherichia coli. <i>Nucleic Acids Research</i> , 2008 , 36, e102	20.1	63
58	Engineering butanol-tolerance in escherichia coli with artificial transcription factor libraries. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 742-9	4.9	59
57	Catalytic pyrolysis of lignin using a two-stage fixed bed reactor comprised of in-situ natural zeolite and ex-situ HZSM-5. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016 , 122, 282-288	6	59
56	Adaptive laboratory evolution of a genome-reduced Escherichia coli. <i>Nature Communications</i> , 2019 , 10, 935	17.4	57
55	Insights into Cell-Free Conversion of CO ₂ to Chemicals by a Multienzyme Cascade Reaction. <i>ACS Catalysis</i> , 2018 , 8, 11085-11093	13.1	54
54	Biomolecules from municipal and food industry wastes: An overview. <i>Bioresource Technology</i> , 2020 , 298, 122346	11	51
53	Genome sequence of the thermotolerant yeast <i>Kluyveromyces marxianus</i> var. <i>marxianus</i> KCTC 17555. <i>Eukaryotic Cell</i> , 2012 , 11, 1584-5		49
52	Investigation into the lignin decomposition mechanism by analysis of the pyrolysis product of <i>Pinus radiata</i> . <i>Bioresource Technology</i> , 2016 , 219, 371-377	11	45
51	Metabolic Engineering of Probiotic <i>Saccharomyces boulardii</i> . <i>Applied and Environmental Microbiology</i> , 2016 , 82, 2280-2287	4.8	43
50	Co-fermentation using Recombinant <i>Saccharomyces cerevisiae</i> Yeast Strains Hyper-secreting Different Cellulases for the Production of Cellulosic Bioethanol. <i>Scientific Reports</i> , 2017 , 7, 4428	4.9	37
49	Optimization of an acetate reduction pathway for producing cellulosic ethanol by engineered yeast. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 2587-2596	4.9	35

48	Genetic incorporation of l-dihydroxyphenylalanine (DOPA) biosynthesized by a tyrosine phenol-lyase. <i>Chemical Communications</i> , 2018 , 54, 3002-3005	5.8	33
47	Fermentative production and direct extraction of (-)-Ebisabolol in metabolically engineered <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2016 , 15, 185	6.4	33
46	High-level expression of an antimicrobial peptide histonin as a natural form by multimerization and furin-mediated cleavage. <i>Applied Microbiology and Biotechnology</i> , 2008 , 78, 123-30	5.7	31
45	Development of a biofilm production-deficient <i>Escherichia coli</i> strain as a host for biotechnological applications. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 3336-42	4.8	31
44	Low-pH production of d-lactic acid using newly isolated acid tolerant yeast <i>Pichia kudriavzevii</i> NG7. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 2232-2242	4.9	29
43	Enhanced production of n-alkanes in <i>Escherichia coli</i> by spatial organization of biosynthetic pathway enzymes. <i>Journal of Biotechnology</i> , 2014 , 192 Pt A, 187-91	3.7	28
42	Rerouting of NADPH synthetic pathways for increased protopanaxadiol production in <i>Saccharomyces cerevisiae</i> . <i>Scientific Reports</i> , 2018 , 8, 15820	4.9	28
41	Enhancing functional expression of heterologous proteins through random substitution of genetic codes in the 5' coding region. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 822-6	4.9	27
40	Characterization of a novel ginsenoside-hydrolyzing β -L-arabinofuranosidase, AbfA, from <i>Rhodanobacter ginsenosidimutans</i> Gsoil 3054T. <i>Applied Microbiology and Biotechnology</i> , 2012 , 94, 673-82	5.7	27
39	sucAB and sucCD are mutually essential genes in <i>Escherichia coli</i> . <i>FEMS Microbiology Letters</i> , 2006 , 254, 245-50	2.9	26
38	GroE chaperonins assisted functional expression of bacterial enzymes in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2016 , 113, 2149-55	4.9	20
37	An Efficient Genome-Wide Fusion Partner Screening System for Secretion of Recombinant Proteins in Yeast. <i>Scientific Reports</i> , 2015 , 5, 12229	4.9	19
36	Direct fermentation of Jerusalem artichoke tuber powder for production of l-lactic acid and d-lactic acid by metabolically engineered <i>Kluyveromyces marxianus</i> . <i>Journal of Biotechnology</i> , 2018 , 266, 27-33	3.7	16
35	Co-expression of two heterologous lactate dehydrogenases genes in <i>Kluyveromyces marxianus</i> for l-lactic acid production. <i>Journal of Biotechnology</i> , 2017 , 241, 81-86	3.7	14
34	VEGF siRNA Delivery by a Cancer-Specific Cell-Penetrating Peptide. <i>Journal of Microbiology and Biotechnology</i> , 2018 , 28, 367-374	3.3	14
33	Construction of a minimal genome as a chassis for synthetic biology. <i>Essays in Biochemistry</i> , 2016 , 60, 337-346	7.6	14
32	Efficient production of levan using a recombinant yeast <i>Saccharomyces cerevisiae</i> hypersecreting a bacterial levansucrase. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019 , 46, 1611-1620	4.2	12
31	Role of surface residue 184 in the catalytic activity of NADH oxidase from <i>Streptococcus pyogenes</i> . <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 7081-8	5.7	12

30	Production of Polyhydroxyalkanoates from Sludge Palm Oil Using S12. <i>Journal of Microbiology and Biotechnology</i> , 2017 , 27, 990-994	3.3	11
29	Recombinant Lipase Engineered with Amphipathic and Coiled-Coil Peptides. <i>ACS Catalysis</i> , 2015 , 5, 5016-5025	5.9	9
28	Coating of an antimicrobial peptide on solid substrate via initiated chemical vapor deposition. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 58, 51-56	6.3	9
27	Escherichia coli as a fatty acid and biodiesel factory: current challenges and future directions. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 12007-18	5.1	9
26	NMRe: a web server for NMR protein structure refinement with high-quality structure validation scores. <i>Bioinformatics</i> , 2016 , 32, 611-3	7.2	9
25	Direct protein-protein conjugation by genetically introducing bioorthogonal functional groups into proteins. <i>Bioorganic and Medicinal Chemistry</i> , 2016 , 24, 5816-5822	3.4	9
24	Isolation and Characterization of the Stress-Tolerant YHJ1 and Evaluation of Its Xylose Reductase for Xylitol Production From Acid Pre-treatment Wastewater. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 138	5.8	8
23	A Critical Analysis of Bio-Hydrocarbon Production in Bacteria: Current Challenges and Future Directions. <i>Energies</i> , 2018 , 11, 2663	3.1	8
22	Display of membrane proteins on the heterologous caveolae carved by caveolin-1 in the Escherichia coli cytoplasm. <i>Enzyme and Microbial Technology</i> , 2015 , 79-80, 55-62	3.8	7
21	Enhanced Production of Fatty Acid Ethyl Ester with Engineered Operon in. <i>Microorganisms</i> , 2019 , 7,	4.9	7
20	Chemo-Biological Upcycling of Poly(ethylene terephthalate) to Multifunctional Coating Materials. <i>ChemSusChem</i> , 2021 , 14, 4251-4259	8.3	7
19	Microbial production of medium chain fructooligosaccharides by recombinant yeast secreting bacterial inulosucrase. <i>Enzyme and Microbial Technology</i> , 2019 , 130, 109364	3.8	6
18	C1 Compound Biosensors: Design, Functional Study, and Applications. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	6
17	Escherichia coli Genome Engineering and Minimization for the Construction of a Bioengine 2009 , 19-40		6
16	Draft Genome Sequence of a Multistress-Tolerant Yeast, NG7. <i>Genome Announcements</i> , 2018 , 6,		5
15	A novel fusion partner for enhanced secretion of recombinant proteins in Saccharomyces cerevisiae. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 10453-10461	5.7	5
14	Microbial production of difructose anhydride III from Jerusalem artichoke tuber powder by recombinant yeast Saccharomyces cerevisiae and Kluyveromyces marxianus. <i>Industrial Crops and Products</i> , 2019 , 135, 99-106	5.9	4
13	Discovery and Biochemical Characterization of a Methanol Dehydrogenase From. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 67	5.8	4

12	Current Status of <i>Pseudomonas putida</i> Engineering for Lignin Valorization. <i>Biotechnology and Bioprocess Engineering</i> , 2020 , 25, 862-871	3.1	4
11	Genetic Manipulation of a Lipolytic Yeast SH14 Using CRISPR-Cas9 System. <i>Microorganisms</i> , 2020 , 8,	4.9	3
10	Direct Production of Difuctose Anhydride IV from Sucrose by Co-fermentation of Recombinant Yeasts. <i>Scientific Reports</i> , 2019 , 9, 15980	4.9	3
9	Draft Genome Sequence of an Acid-Tolerant Yeast, NP2, a Potential Producer of Organic Acids. <i>Genome Announcements</i> , 2017 , 5,		3
8	sucAB and sucCD are mutually essential genes in <i>Escherichia coli</i> . <i>FEMS Microbiology Letters</i> , 2006 , 256, 178-178	2.9	3
7	A novel protein fusion partner, carbohydrate-binding module family 66, to enhance heterologous protein expression in <i>Escherichia coli</i> .. <i>Microbial Cell Factories</i> , 2021 , 20, 232	6.4	3
6	Scarless chromosomal gene knockout methods. <i>Methods in Molecular Biology</i> , 2011 , 765, 43-54	1.4	2
5	Microbial production of 2-pyrone-4,6-dicarboxylic acid from lignin derivatives in an engineered <i>Pseudomonas putida</i> and its application for the synthesis of bio-based polyester.. <i>Bioresource Technology</i> , 2022 , 127106	11	2
4	Draft Genome Sequence of a Lipolytic Yeast, SH-14. <i>Genome Announcements</i> , 2017 , 5,		1
3	Site saturation mutagenesis of ribosomal protein L42 at 56th residue and application as a consecutive selection marker for cycloheximide resistance in yeast. <i>FEMS Microbiology Letters</i> , 2018 , 365,	2.9	1
2	Adaptive laboratory evolution of <i>Escherichia coli</i> W enhances gamma-aminobutyric acid production using glycerol as the carbon source. <i>Metabolic Engineering</i> , 2021 , 69, 59-72	9.7	1
1	Development of <i>Bacillus methanolicus</i> methanol dehydrogenase with improved formaldehyde reduction activity. <i>Scientific Reports</i> , 2018 , 8, 12483	4.9	0