

# Dong-Woo Lee

## List of Publications by Year in descending order

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89  
papers

3,268  
citations

172386  
29  
h-index

155592  
55  
g-index

93  
all docs

93  
docs citations

93  
times ranked

3875  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biohydrogen Production: Strategies to Improve Process Efficiency through Microbial Routes. International Journal of Molecular Sciences, 2015, 16, 8266-8293.	1.8	303
2	Isolation and characterization of a thermophilic lipase from <i>Bacillus thermoleovorans</i> ID-1. FEMS Microbiology Letters, 1999, 179, 393-400.	0.7	235
3	Native-feather degradation by <i>Fervidobacterium islandicum</i> AW-1, a newly isolated keratinase-producing thermophilic anaerobe. Archives of Microbiology, 2002, 178, 538-547.	1.0	210
4	Cytochrome c biogenesis: the Ccm system. Trends in Microbiology, 2010, 18, 266-274.	3.5	166
5	Dre2, a Conserved Eukaryotic Fe/S Cluster Protein, Functions in Cytosolic Fe/S Protein Biogenesis. Molecular and Cellular Biology, 2008, 28, 5569-5582.	1.1	145
6	Characterization of a Thermostable L-Arabinose (d-Galactose) Isomerase from the Hyperthermophilic Eubacterium <i>Thermotoga maritima</i> . Applied and Environmental Microbiology, 2004, 70, 1397-1404.	1.4	125
7	Cloning, expression and characterization of L-arabinose isomerase from <i>Thermotoga neapolitana</i> : bioconversion of d-galactose to d-tagatose using the enzyme. FEMS Microbiology Letters, 2002, 212, 121-126.	0.7	120
8	A Robust Longitudinal Co-culture of Obligate Anaerobic Gut Microbiome With Human Intestinal Epithelium in an Anoxic-Oxic Interface-on-a-Chip. Frontiers in Bioengineering and Biotechnology, 2019, 7, 13.	2.0	113
9	Characterization of a Thermoacidophilic L-Arabinose Isomerase from <i>Alicyclobacillus acidocaldarius</i> : Role of Lys-269 in pH Optimum. Applied and Environmental Microbiology, 2005, 71, 7888-7896.	1.4	89
10	Distinct metal dependence for catalytic and structural functions in the L-arabinose isomerases from the mesophilic <i>Bacillus halodurans</i> and the thermophilic <i>Geobacillus stearothermophilus</i> . Archives of Biochemistry and Biophysics, 2005, 434, 333-343.	1.4	85
11	<i>Weissella kimchii</i> sp. nov., a novel lactic acid bacterium from kimchi. International Journal of Systematic and Evolutionary Microbiology, 2002, 52, 507-511.	0.8	83
12	Ascochlorin is a novel, specific inhibitor of the mitochondrial cytochrome bc <sub>1</sub> complex. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 360-370.	0.5	79
13	Development of a highly specific and sensitive cadmium and lead microbial biosensor using synthetic CadC-T7 genetic circuitry. Biosensors and Bioelectronics, 2016, 79, 701-708.	5.3	66
14	Purification and characterization of a fibrinolytic subtilisin-like protease of <i>Bacillus subtilis</i> TP-6 from an Indonesian fermented soybean, Tempeh. Journal of Industrial Microbiology and Biotechnology, 2006, 33, 436-444.	1.4	64
15	Proteomic analysis of acetylation in thermophilic <i>Geobacillus kaustophilus</i> . Proteomics, 2013, 13, 2278-2282.	1.3	63
16	Intermonomer Electron Transfer between the Low-Potential Hemes of Cytochrome bc <sub>1</sub> . Biochemistry, 2011, 50, 1651-1663.	1.2	55
17	Across Membrane Communication between the Q <sub>o</sub> and Q <sub>i</sub> Active Sites of Cytochrome bc <sub>1</sub> . Biochemistry, 2009, 48, 1888-1899.	1.2	53
18	Characterization of a Novel d-Lyxose Isomerase from <i>Cohnella laevoribosii</i> RI-39 sp. nov. Journal of Bacteriology, 2007, 189, 1655-1663.	1.0	48

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19	Production of d-tagatose at high temperatures using immobilized <i>Escherichia coli</i> cells expressing l-arabinose isomerase from <i>Thermotoga neapolitana</i> . <i>Biotechnology Letters</i> , 2007, 29, 569-574.	1.1	47
20	Development of a keratinase activity assay using recombinant chicken feather keratin substrates. <i>PLoS ONE</i> , 2017, 12, e0172712.	1.1	46
21	Characterization of Glutamate Decarboxylase from <i>Lactobacillus plantarum</i> and Its C-Terminal Function for the pH Dependence of Activity. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 12186-12193.	2.4	45
22	Decolorization of indigo carmine by laccase displayed on <i>Bacillus subtilis</i> spores. <i>Enzyme and Microbial Technology</i> , 2011, 49, 100-104.	1.6	44
23	The role of molecular modeling in the design of analogues of the fungicidal natural products crocacin A and D. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 10345-10355.	1.4	39
24	The Cytochrome c Maturation Components CcmF, CcmH, and CcmI Form a Membrane-integral Multisubunit Heme Ligation Complex. <i>Journal of Biological Chemistry</i> , 2008, 283, 29715-29722.	1.6	39
25	Loss of a Conserved Tyrosine Residue of Cytochrome b Induces Reactive Oxygen Species Production by Cytochrome bc <sub>1</sub> . <i>Journal of Biological Chemistry</i> , 2011, 286, 18139-18148.	1.6	38
26	Design and development of synthetic microbial platform cells for bioenergy. <i>Frontiers in Microbiology</i> , 2013, 4, 92.	1.5	37
27	Low-molecular weight keratins with anti-skin aging activity produced by anaerobic digestion of poultry feathers with <i>Fervidobacterium islandicum</i> AW-1. <i>Journal of Biotechnology</i> , 2018, 271, 17-25.	1.9	34
28	Genome Sequence of <i>Oscillibacter ruminantium</i> Strain GH1, Isolated from Rumen of Korean Native Cattle. <i>Journal of Bacteriology</i> , 2012, 194, 6362-6362.	1.0	33
29	Genome-wide analysis of redox reactions reveals metabolic engineering targets for d-lactate overproduction in <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2013, 18, 44-52.	3.6	33
30	Zinc Inhibition of Bacterial Cytochrome bc <sub>1</sub> Reveals the Role of Cytochrome E295 in Proton Release at the Q <sub>o</sub> Site. <i>Biochemistry</i> , 2011, 50, 4263-4272.	1.2	30
31	X-Ray Absorption Studies of Zn <sup>2+</sup> Binding Sites in Bacterial, Avian, and Bovine Cytochrome bc <sub>1</sub> Complexes. <i>Biophysical Journal</i> , 2007, 93, 2934-2951.	0.2	29
32	Structure of the thermophilic l-Arabinose isomerase from <i>Geobacillus kaustophilus</i> reveals metal-mediated intersubunit interactions for activity and thermostability. <i>Archives of Biochemistry and Biophysics</i> , 2016, 596, 51-62.	1.4	29
33	Diversity of Extremely Halophilic Archaeal and Bacterial Communities from Commercial Salts. <i>Frontiers in Microbiology</i> , 2017, 8, 799.	1.5	29
34	Mitochondrial Mutations in Cholestatic Liver Disease with Biliary Atresia. <i>Scientific Reports</i> , 2018, 8, 905.	1.6	29
35	New approaches towards the discovery and evaluation of bioactive peptides from natural resources. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 72-103.	6.6	28
36	A thermodynamic study of mesophilic, thermophilic, and hyperthermophilic l-arabinose isomerases: The effects of divalent metal ions on protein stability at elevated temperatures. <i>FEBS Letters</i> , 2005, 579, 1261-1266.	1.3	23

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37	TM0416, a Hyperthermophilic Promiscuous Nonphosphorylated Sugar Isomerase, Catalyzes Various C 5 and C 6 Epimerization Reactions. Applied and Environmental Microbiology, 2017, 83, .	1.4	23
38	Identification of keratinases from <i>Fervidobacterium islandicum</i> AW-1 using dynamic gene expression profiling. Microbial Biotechnology, 2020, 13, 442-457.	2.0	23
39	Cytochrome bc1-cy Fusion Complexes Reveal the Distance Constraints for Functional Electron Transfer Between Photosynthesis Components. Journal of Biological Chemistry, 2008, 283, 13973-13982.	1.6	22
40	Biochemical and structural characterization of a keratin-degrading M32 carboxypeptidase from <i>Fervidobacterium islandicum</i> AW-1. Biochemical and Biophysical Research Communications, 2015, 468, 927-933.	1.0	22
41	Identification of Matrix Metalloproteinase-1-Suppressive Peptides in Feather Keratin Hydrolysate. Journal of Agricultural and Food Chemistry, 2018, 66, 12719-12729.	2.4	21
42	Identification and expression of GH-8 family chitosanases from several <i>Bacillus thuringiensis</i> subspecies. FEMS Microbiology Letters, 2007, 277, 133-141.	0.7	20
43	Genome Sequence of <i>Methanobrevibacter</i> sp. Strain JH1, Isolated from Rumen of Korean Native Cattle. Genome Announcements, 2013, 1, .	0.8	20
44	Complete genome sequence of <i>Bacillus oceanisediminis</i> 2691, a reservoir of heavy-metal resistance genes. Marine Genomics, 2016, 30, 73-76.	0.4	20
45	Biological iron-sulfur storage in a thioferrate-protein nanoparticle. Nature Communications, 2017, 8, 16110.	5.8	20
46	Disordered development of gut microbiome interferes with the establishment of the gut ecosystem during early childhood with atopic dermatitis. Gut Microbes, 2022, 14, 2068366.	4.3	20
47	Recent advances in cytochrome <i>bc</i> <sub>1</sub> : Inter monomer electronic communication?. FEBS Letters, 2012, 586, 617-621.	1.3	19
48	Genome sequence of a native-feather degrading extremely thermophilic Eubacterium, <i>Fervidobacterium islandicum</i> AW-1. Standards in Genomic Sciences, 2015, 10, 71.	1.5	19
49	Current status and future prospects of biological routes to bio-based products using raw materials, wastes, and residues as renewable resources. Critical Reviews in Environmental Science and Technology, 2022, 52, 2453-2509.	6.6	19
50	Homologous Alkalophilic and Acidophilic <i>scp</i> -Arabinose Isomerases Reveal Region-Specific Contributions to the pH Dependence of Activity and Stability. Applied and Environmental Microbiology, 2012, 78, 8813-8816.	1.4	16
51	Genome Sequence of the Vancomycin-Producing <i>Amycolatopsis orientalis</i> subsp. <i>orientalis</i> Strain KCTC 9412 T. Genome Announcements, 2013, 1, .	0.8	16
52	Draft Genome Sequence of the Thermophilic Bacterium <i>Anoxybacillus kamchatkensis</i> G10. Journal of Bacteriology, 2012, 194, 6684-6685.	1.0	15
53	Creation of Metal-Independent Hyperthermophilic <i>scp</i> -Arabinose Isomerase by Homologous Recombination. Journal of Agricultural and Food Chemistry, 2011, 59, 12939-12947.	2.4	14
54	The structural basis of substrate promiscuity in UDP-hexose 4-epimerase from the hyperthermophilic Eubacterium <i>Thermotoga maritima</i> . Archives of Biochemistry and Biophysics, 2015, 585, 39-51.	1.4	13

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55	Draft Genome Sequence of <i>Virgibacillus halodenitrificans</i> 1806. <i>Journal of Bacteriology</i> , 2012, 194, 6332-6333.	1.0	12
56	Minimization of energy transduction confers resistance to phosphine in the rice weevil, <i>Sitophilus oryzae</i> . <i>Scientific Reports</i> , 2019, 9, 14605.	1.6	12
57	Soluble Variants of <i>Rhodobacter capsulatus</i> Membrane-anchored Cytochrome <i>cy</i> Are Efficient Photosynthetic Electron Carriers. <i>Journal of Biological Chemistry</i> , 2008, 283, 13964-13972.	1.6	11
58	Complete genome sequence of a keratin-degrading bacterium <i>Chryseobacterium gallinarum</i> strain DSM 27622T isolated from chicken. <i>Journal of Biotechnology</i> , 2015, 211, 66-67.	1.9	10
59	Isolation and characterization of a thermophilic lipase from <i>Bacillus thermoleovorans</i> ID-1. <i>FEMS Microbiology Letters</i> , 1999, 179, 393-400.	0.7	10
60	Production of $\hat{1}^3$ -Aminobutyric Acid Using Immobilized Glutamate Decarboxylase from <i>Lactobacillus plantarum</i> . <i>Microbiology and Biotechnology Letters</i> , 2015, 43, 300-305.	0.2	10
61	A functional hybrid between the cytochrome <i>bc1</i> complex and its physiological membrane-anchored electron acceptor cytochrome <i>cy</i> in <i>Rhodobacter capsulatus</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 346-352.	0.5	9
62	Short-term differential adaptation to anaerobic stress via genomic mutations by <i>Escherichia coli</i> strains K-12 and B lacking alcohol dehydrogenase. <i>Frontiers in Microbiology</i> , 2014, 5, 476.	1.5	9
63	Draft Genome Sequence of <i>Bacillus endophyticus</i> 2102. <i>Journal of Bacteriology</i> , 2012, 194, 5705-5706.	1.0	8
64	Draft Genome Sequence of <i>Bacillus oceanisediminis</i> 2691. <i>Journal of Bacteriology</i> , 2012, 194, 6351-6352.	1.0	8
65	Complete genome sequence of the thermophilic bacterium <i>Geobacillus subterraneus</i> KCTC 3922 T as a potential denitrifier. <i>Journal of Biotechnology</i> , 2017, 251, 141-144.	1.9	8
66	Draft Genome Sequence of an Anaerobic and Extremophilic Bacterium, <i>Caldanaerobacter yonseiensis</i> , Isolated from a Geothermal Hot Stream. <i>Genome Announcements</i> , 2013, 1, .	0.8	7
67	Structural insights into conserved <i>L</i> -arabinose metabolic enzymes reveal the substrate binding site of a thermophilic <i>L</i> -arabinose isomerase. <i>FEBS Letters</i> , 2014, 588, 1064-1070.	1.3	7
68	Fluorescence-based Quantification of Bioactive Keratin Peptides from Feathers for Optimizing Large-scale Anaerobic Fermentation and Purification. <i>Biotechnology and Bioprocess Engineering</i> , 2019, 24, 240-249.	1.4	7
69	Diet-Induced Host-Microbe Interactions: Personalized Diet Strategies for Improving Inflammatory Bowel Disease. <i>Current Developments in Nutrition</i> , 2022, 6, nza110.	0.1	7
70	Crystallization and preliminary X-ray crystallographic analysis of <i>L</i> -arabinose isomerase from thermophilic <i>Geobacillus kaustophilus</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 108-112.	0.4	6
71	A large-scale metagenomic study for enzyme profiles using the focused identification of the NGS-based definitive enzyme research (FINDER) strategy. <i>Biotechnology and Bioengineering</i> , 2021, 118, 4360-4374.	1.7	6
72	Genome Sequences of <i>Amycolatopsis orientalis</i> subsp. <i>orientalis</i> Strains DSM 43388 and DSM 46075. <i>Genome Announcements</i> , 2013, 1, .	0.8	5

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73	Draft genome sequence of the extremely halophilic <i>Halorubrum</i> sp. SAH-A6 isolated from rock salts of the Danakil depression, Ethiopia. <i>Genomics Data</i> , 2016, 10, 30-32.	1.3	5
74	<i>Lactobacillus acidophilus</i> Antimicrobial Peptide Is Antagonistic to <i>Aeromonas hydrophila</i> . <i>Frontiers in Microbiology</i> , 2020, 11, 570851.	1.5	4
75	Structural and Mutational Studies of the Cytochrome bc 1 Complex. <i>Advances in Photosynthesis and Respiration</i> , 2009, , 425-450.	1.0	4
76	The sulfur formation system mediating extracellular cysteine-cystine recycling in <i>Fervidobacterium islandicum</i> AW-1 is associated with keratin degradation. <i>Microbial Biotechnology</i> , 2021, 14, 938-952.	2.0	4
77	Enzymatic Characteristics of a Highly Thermostable $\alpha$ -D-Glucanase from <i>Fervidobacterium islandicum</i> AW-1 (KCTC 4680). <i>Journal of Microbiology and Biotechnology</i> , 2017, 27, 271-276.	0.9	4
78	A Genomics-Based Semirational Approach for Expanding the Postbiotic Potential of Collagen Peptides Using Lactobacillaceae. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 8365-8376.	2.4	4
79	Crystallization and preliminary X-ray crystallographic analysis of MxaJ, a component of the methanol-oxidizing system operon from the marine bacterium <i>Methylophaga aminisulfidivorans</i> MP-T. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2013, 69, 902-905.	0.7	3
80	Structure of oxidized pyrrolidone carboxypeptidase from <i>Fervidobacterium islandicum</i> AW-1 reveals unique structural features for thermostability and keratinolysis. <i>Biochemical and Biophysical Research Communications</i> , 2021, 540, 101-107.	1.0	3
81	Nutrient-specific Proteomic Analysis of the Mucin Degrading Bacterium <i>Akkermansia muciniphila</i> . <i>Proteomics</i> , 2021, , 2100125.	1.3	3
82	Draft genome sequence of the halophilic <i>Halobacillus mangrovi</i> KTB 131 isolated from Topan salt of the Jeon-nam in Korea. <i>Genomics Data</i> , 2017, 14, 18-20.	1.3	2
83	Functional Characterization of Primordial Protein Repair Enzyme M38 Metallo-Peptidase From <i>Fervidobacterium islandicum</i> AW-1. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 600634.	1.6	2
84	Editorial: Interactions Between Small Molecule Ligands and Target Enzymes. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 649450.	1.6	1
85	Microbial Platform Cells for Synthetic Biology. , 2016, , 229-254.		1
86	Functional Expression and Characterization of Codon Optimized Proteorhodopsin in <i>Escherichia coli</i> . <i>New Biotechnology</i> , 2014, 31, S162.	2.4	0
87	Su1709 ESCHERICHIA COLI AS A MODEL SYSTEM TO STUDY THE MITOCHONDRIAL MUTATIONS IN BILIARY ATRESIA. <i>Gastroenterology</i> , 2020, 158, S-1390-S-1391.	0.6	0
88	Tu1912 NUTRIENT-DEPENDENT PHYSIOLOGICAL AND PROTEOMIC ANALYSIS OF MUCIN DEGRADING BACTERIA REVEALS METABOLIC INSIGHT INTO MUCOSA-ASSOCIATED MICROBIOTA IN THE HUMAN GUT. <i>Gastroenterology</i> , 2020, 158, S-1216.	0.6	0
89	Cover Image, Volume 118, Number 11, November 2021. <i>Biotechnology and Bioengineering</i> , 2021, 118, i.	1.7	0