

# Dong-Woo Lee

## List of Publications by Year in descending order

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89  
papers

3,268  
citations

172386  
29  
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155592  
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93  
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docs citations

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times ranked

3875  
citing authors

#	ARTICLE	IF	CITATIONS
1	Current status and future prospects of biological routes to bio-based products using raw materials, wastes, and residues as renewable resources. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 2453-2509.	6.6	19
2	Disordered development of gut microbiome interferes with the establishment of the gut ecosystem during early childhood with atopic dermatitis. <i>Gut Microbes</i> , 2022, 14, 2068366.	4.3	20
3	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
4	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
5	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
6	Editorial: Interactions Between Small Molecule Ligands and Target Enzymes. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 649450.	1.6	1
7	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
8	Nutrient-specific Proteomic Analysis of the Mucin Degrading Bacterium <i>Akkermansia muciniphila</i> . <i>Proteomics</i> , 2021, , 2100125.	1.3	3
9	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
10	Cover Image, Volume 118, Number 11, November 2021. <i>Biotechnology and Bioengineering</i> , 2021, 118, i.	1.7	0
11	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
12	Identification of keratinases from <i>Fervidobacterium islandicum</i> AW-1 using dynamic gene expression profiling. <i>Microbial Biotechnology</i> , 2020, 13, 442-457.	2.0	23
13	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
14	<i>Lactobacillus acidophilus</i> Antimicrobial Peptide Is Antagonistic to <i>Aeromonas hydrophila</i> . <i>Frontiers in Microbiology</i> , 2020, 11, 570851.	1.5	4
15	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
16	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
17	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
18	A Robust Longitudinal Co-culture of Obligate Anaerobic Gut Microbiome With Human Intestinal Epithelium in an Anoxic-Oxic Interface-on-a-Chip. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 13.	2.0	113

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19	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
20	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
21	Mitochondrial Mutations in Cholestatic Liver Disease with Biliary Atresia. <i>Scientific Reports</i> , 2018, 8, 905.	1.6	29
22	Identification of Matrix Metalloproteinase-1-Suppressive Peptides in Feather Keratin Hydrolysate. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 12719-12729.	2.4	21
23	TM0416, a Hyperthermophilic Promiscuous Nonphosphorylated Sugar Isomerase, Catalyzes Various C 5 and C 6 Epimerization Reactions. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	23
24	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
25	Biological iron-sulfur storage in a thioferrate-protein nanoparticle. <i>Nature Communications</i> , 2017, 8, 16110.	5.8	20
26	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
27	Diversity of Extremely Halophilic Archaeal and Bacterial Communities from Commercial Salts. <i>Frontiers in Microbiology</i> , 2017, 8, 799.	1.5	29
28	Development of a keratinase activity assay using recombinant chicken feather keratin substrates. <i>PLoS ONE</i> , 2017, 12, e0172712.	1.1	46
29	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
30	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
31	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
32	Complete genome sequence of <i>Bacillus oceanisediminis</i> 2691, a reservoir of heavy-metal resistance genes. <i>Marine Genomics</i> , 2016, 30, 73-76.	0.4	20
33	Development of a highly specific and sensitive cadmium and lead microbial biosensor using synthetic CadC-T7 genetic circuitry. <i>Biosensors and Bioelectronics</i> , 2016, 79, 701-708.	5.3	66
34	Microbial Platform Cells for Synthetic Biology. , 2016, , 229-254.		1
35	The structural basis of substrate promiscuity in UDP-hexose 4-epimerase from the hyperthermophilic <i>Eubacterium Thermotoga maritima</i> . <i>Archives of Biochemistry and Biophysics</i> , 2015, 585, 39-51.	1.4	13
36	Genome sequence of a native-feather degrading extremely thermophilic <i>Eubacterium</i> , <i>Fervidobacterium islandicum</i> AW-1. <i>Standards in Genomic Sciences</i> , 2015, 10, 71.	1.5	19

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37	Biohydrogen Production: Strategies to Improve Process Efficiency through Microbial Routes. International Journal of Molecular Sciences, 2015, 16, 8266-8293.	1.8	303
38	Complete genome sequence of a keratin-degrading bacterium <i>Chryseobacterium gallinarum</i> strain DSM 27622T isolated from chicken. Journal of Biotechnology, 2015, 211, 66-67.	1.9	10
39	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
40	Production of $\hat{1}^3$ -Aminobutyric Acid Using Immobilized Glutamate Decarboxylase from <i>Lactobacillus plantarum</i> . Microbiology and Biotechnology Letters, 2015, 43, 300-305.	0.2	10
41	Short-term differential adaptation to anaerobic stress via genomic mutations by <i>Escherichia coli</i> strains K-12 and B lacking alcohol dehydrogenase. Frontiers in Microbiology, 2014, 5, 476.	1.5	9
42	Crystallization and preliminary X-ray crystallographic analysis of <i>L</i> -arabinose isomerase from thermophilic <i>Geobacillus kaustophilus</i> . Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 108-112.	0.4	6
43	Characterization of Glutamate Decarboxylase from <i>Lactobacillus plantarum</i> and Its C-Terminal Function for the pH Dependence of Activity. Journal of Agricultural and Food Chemistry, 2014, 62, 12186-12193.	2.4	45
44	Functional Expression and Characterization of Codon Optimized Proteorhodopsin in <i>Escherichia coli</i> . New Biotechnology, 2014, 31, S162.	2.4	0
45	Structural insights into conserved <i>L</i> -arabinose metabolic enzymes reveal the substrate binding site of a thermophilic <i>L</i> -arabinose isomerase. FEBS Letters, 2014, 588, 1064-1070.	1.3	7
46	Genome-wide analysis of redox reactions reveals metabolic engineering targets for d-lactate overproduction in <i>Escherichia coli</i> . Metabolic Engineering, 2013, 18, 44-52.	3.6	33
47	Proteomic analysis of acetylation in thermophilic <i>Geobacillus kaustophilus</i> . Proteomics, 2013, 13, 2278-2282.	1.3	63
48	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
49	Genome Sequence of <i>Methanobrevibacter</i> sp. Strain JH1, Isolated from Rumen of Korean Native Cattle. Genome Announcements, 2013, 1, .	0.8	20
50	Genome Sequences of <i>Amycolatopsis orientalis</i> subsp. <i>orientalis</i> Strains DSM 43388 and DSM 46075. Genome Announcements, 2013, 1, .	0.8	5
51	Crystallization and preliminary X-ray crystallographic analysis of MxaJ, a component of the methanol-oxidizing system operon from the marine bacterium <i>Methylophaga aminisulfidorans</i> MP <sup>T</sup> . Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 902-905.	0.7	3
52	Draft Genome Sequence of an Anaerobic and Extremophilic Bacterium, <i>Caldanaerobacter yonseiensis</i> , Isolated from a Geothermal Hot Stream. Genome Announcements, 2013, 1, .	0.8	7
53	Design and development of synthetic microbial platform cells for bioenergy. Frontiers in Microbiology, 2013, 4, 92.	1.5	37
54	Draft Genome Sequence of <i>Bacillus endophyticus</i> 2102. Journal of Bacteriology, 2012, 194, 5705-5706.	1.0	8

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55	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
56	Draft Genome Sequence of the Thermophilic Bacterium <i>Anoxybacillus kamchatkensis</i> G10. <i>Journal of Bacteriology</i> , 2012, 194, 6684-6685.	1.0	15
57	Draft Genome Sequence of <i>Virgibacillus halodenitrificans</i> 1806. <i>Journal of Bacteriology</i> , 2012, 194, 6332-6333.	1.0	12
58	Draft Genome Sequence of <i>Bacillus oceanisediminis</i> 2691. <i>Journal of Bacteriology</i> , 2012, 194, 6351-6352.	1.0	8
59	Homologous Alkalophilic and Acidophilic <i>scpA</i> -Arabinose Isomerases Reveal Region-Specific Contributions to the pH Dependence of Activity and Stability. <i>Applied and Environmental Microbiology</i> , 2012, 78, 8813-8816.	1.4	16
60	Recent advances in cytochrome <i>bc<sub>1</sub></i> : Inter monomer electronic communication?. <i>FEBS Letters</i> , 2012, 586, 617-621.	1.3	19
61	Creation of Metal-Independent Hyperthermophilic <i>scpA</i> -Arabinose Isomerase by Homologous Recombination. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 12939-12947.	2.4	14
62	Zinc Inhibition of Bacterial Cytochrome <i>bc<sub>1</sub></i> Reveals the Role of Cytochrome <i>bc<sub>1</sub></i> E295 in Proton Release at the <i>Q<sub>o</sub></i> Site. <i>Biochemistry</i> , 2011, 50, 4263-4272.	1.2	30
63	Intermonomer Electron Transfer between the Low-Potential <i>bc<sub>1</sub></i> Hemes of Cytochrome <i>bc<sub>1</sub></i> . <i>Biochemistry</i> , 2011, 50, 1651-1663.	1.2	55
64	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
65	Loss of a Conserved Tyrosine Residue of Cytochrome <i>b</i> Induces Reactive Oxygen Species Production by Cytochrome <i>bc<sub>1</sub></i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 18139-18148.	1.6	38
66	Ascochlorin is a novel, specific inhibitor of the mitochondrial cytochrome <i>bc<sub>1</sub></i> complex. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 360-370.	0.5	79
67	Cytochrome <i>c</i> biogenesis: the <i>Ccm</i> system. <i>Trends in Microbiology</i> , 2010, 18, 266-274.	3.5	166
68	Across Membrane Communication between the <i>Q<sub>o</sub></i> and <i>Q<sub>i</sub></i> Active Sites of Cytochrome <i>bc<sub>1</sub></i> . <i>Biochemistry</i> , 2009, 48, 1888-1899.	1.2	53
69	Structural and Mutational Studies of the Cytochrome <i>bc<sub>1</sub></i> Complex. <i>Advances in Photosynthesis and Respiration</i> , 2009, , 425-450.	1.0	4
70	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
71	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
72	Dre2, a Conserved Eukaryotic Fe/S Cluster Protein, Functions in Cytosolic Fe/S Protein Biogenesis. <i>Molecular and Cellular Biology</i> , 2008, 28, 5569-5582.	1.1	145

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73	Cytochrome bc <sub>1</sub> -cy Fusion Complexes Reveal the Distance Constraints for Functional Electron Transfer Between Photosynthesis Components. <i>Journal of Biological Chemistry</i> , 2008, 283, 13973-13982.	1.6	22
74	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
75	Characterization of a Novel d -Lyxose Isomerase from <i>Cohnella laeavoribosii</i> RI-39 sp. nov. <i>Journal of Bacteriology</i> , 2007, 189, 1655-1663.	1.0	48
76	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
77	Identification and expression of GH-8 family chitosanases from several <i>Bacillus thuringiensis</i> subspecies. <i>FEMS Microbiology Letters</i> , 2007, 277, 133-141.	0.7	20
78	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
79	A functional hybrid between the cytochrome bc <sub>1</sub> complex and its physiological membrane-anchored electron acceptor cytochrome cy in <i>Rhodobacter capsulatus</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 346-352.	0.5	9
80	Purification and characterization of a fibrinolytic subtilisin-like protease of <i>Bacillus subtilis</i> TP-6 from an Indonesian fermented soybean, Tempeh. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2006, 33, 436-444.	1.4	64
81	Characterization of a Thermoacidophilic l -Arabinose Isomerase from <i>Alicyclobacillus acidocaldarius</i> : Role of Lys-269 in pH Optimum. <i>Applied and Environmental Microbiology</i> , 2005, 71, 7888-7896.	1.4	89
82	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
83	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> . <i>Archives of Biochemistry and Biophysics</i> , 2005, 434, 333-343.	1.4	85
84	Characterization of a Thermostable l-Arabinose (d-Galactose) Isomerase from the Hyperthermophilic Eubacterium <i>Thermotoga maritima</i> . <i>Applied and Environmental Microbiology</i> , 2004, 70, 1397-1404.	1.4	125
85	Native-feather degradation by <i>Fervidobacterium islandicum</i> AW-1, a newly isolated keratinase-producing thermophilic anaerobe. <i>Archives of Microbiology</i> , 2002, 178, 538-547.	1.0	210
86	Cloning, expression and characterization of l-arabinose isomerase from <i>Thermotoga neapolitana</i> : bioconversion of d-galactose to d-tagatose using the enzyme. <i>FEMS Microbiology Letters</i> , 2002, 212, 121-126.	0.7	120
87	<i>Weissella kimchii</i> sp. nov., a novel lactic acid bacterium from kimchi.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2002, 52, 507-511.	0.8	83
88	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	235
89	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