Dae-Hyuk Kim

List of Publications by Year
in descending order

82 papers	1,470 citations	331259 21 h-index	414034 32 g-index
83 all docs	83 docs citations	83 times ranked	1180 citing authors

#	Article	IF	Citations
1	Characterization of HOG1 homologue, CpMK1, from Cryphonectria parasitica and evidence for hypovirus-mediated perturbation of its phosphorylation in response to hypertonic stress. Molecular Microbiology, 2004, 51, 1267-1277.	1.2	136
2	Expression of glucose oxidase by using recombinant yeast. Journal of Biotechnology, 2000, 81, 35-44.	1.9	77
3	Characterization of the ERK homologue CpMK2 from the chestnut blight fungus Cryphonectria parasitica. Microbiology (United Kingdom), 2005, 151, 1349-1358.	0.7	59
4	Characterization of a fungal protein kinase from Cryphonectria parasitica and its transcriptional upregulation by hypovirus. Molecular Microbiology, 2002, 45, 933-941.	1.2	54
5	Enhancement of 1,3-propanediol production from industrial by-product by Lactobacillus reuteri CH53. Microbial Cell Factories, 2020, 19, 6.	1.9	52
6	Comparative transcriptome analysis of dikaryotic mycelia and mature fruiting bodies in the edible mushroom Lentinula edodes. Scientific Reports, 2018, 8, 8983.	1.6	37
7	A Tannic Acidâ€“Inducible and Hypoviral-Regulated Laccase3 Contributes to the Virulence of the Chestnut Blight Fungus Cryphonectria parasitica. Molecular Plant-Microbe Interactions, 2008, 21, 1582-1590.	1.4	36
8	Characterization of CpSte11, a MAPKKK gene of Cryphonectria parasitica, and initial evidence of its involvement in the pheromone response pathway. Molecular Plant Pathology, 2012, 13, 240-250.	2.0	36
9	Identification of a Novel Partitivirus of Trichoderma harzianum NFCF319 and Evidence for the Related Antifungal Activity. Frontiers in Plant Science, 2018, 9, 1699.	1.7	34
10	Transcriptome Analysis of Cryphonectria parasitica Infected With Cryphonectria hypovirus 1 (CHV1) Reveals Distinct Genes Related to Fungal Metabolites, Virulence, Antiviral RNA-Silencing, and Their Regulation. Frontiers in Microbiology, 2020, 11, 1711.	1.5	30
11	Enhanced Iron Uptake of Saccharomyces cerevisiae by Heterologous Expression of a Tadpole Ferritin Gene. Applied and Environmental Microbiology, 2001, 67, 1280-1283.	1.4	29
12	Putative endoglucanase PcGH5 from Phanerochaete chrysosporium is a Î²-xylosidase that cleaves xylans in synergistic action with endo-xylanase. Journal of Bioscience and Bioengineering, 2015, 119, 416-420.	1.1	28
13	Metagenomic analysis of fungal diversity in Korean traditional wheat-based fermentation starter nuruk. Food Microbiology, 2016, 60, 73-83.	2.1	28
14	Mycoflora dynamics analysis of Korean traditional wheat-based nuruk. Journal of Microbiology, 2014, 52, 1025-1029.	1.3	27
15	Characterization of a novel dsRNA mycovirus of Trichoderma atroviride NFCF028. Archives of Virology, 2017, 162, 1073-1077.	0.9	27
16	Occurrence of diverse dsRNA in a Korean population of the chestnut blight fungus, Cryphonectria parasitica. Mycological Research, 2008, 112, 1220-1226.	2.5	26
17	Surface-Displayed Expression of a Neutralizing Epitope of ApxIIA Exotoxin inSaccharomyces cerevisiaeand Oral Administration of It for Protective Immune Responses against Challenge byActinobacillus pleuropneumoniae. Bioscience, Biotechnology and Biochemistry, 2010, 74, 1362-1367.	0.6	25
18	A Mutant of the Bck1 Homolog from Cryphonectria parasitica Resulted in Sectorization with an Impaired Pathogenicity. Molecular Plant-Microbe Interactions, 2016, 29, 268-276.	1.4	25

#	Article	IF	Citations
19	Incidence of diverse dsRNA mycoviruses inTrichodermaspp. causing green mold disease of shiitakeLentinula edodes. FEMS Microbiology Letters, 2016, 363, fnw220.	0.7	24
20	Mutation of the Slt2 ortholog from Cryphonectria parasitica results in abnormal cell wall integrity and sectorization with impaired pathogenicity. Scientific Reports, 2017, 7, 9038.	1.6	24
21	Comparative immunogenicity of preparations of yeast-derived dengue oral vaccine candidate. Microbial Cell Factories, 2018, 17, 24.	1.9	24
22	Transformation of a filamentous fungusCryphonectria parasitica usingAgrobacterium tumefaciens. Biotechnology and Bioprocess Engineering, 2004, 9, 217-222.	1.4	22
23	Heterologous expression of a tannic acid-inducible laccase3 of Cryphonectria parasitica in Saccharomyces cerevisiae. BMC Biotechnology, 2010, 10, 18.	1.7	22
24	Comparative proteomic analysis of chestnut blight fungus,Cryphonectria parasitica, under tannic-acid-inducing and hypovirus-regulating conditions. Canadian Journal of Microbiology, 2012, 58, 863-871.	0.8	22
25	Biological function of a novel chrysovirus, CnV1-BS122, in the Korean Cryphonectria nitschkei BS122 strain. Journal of Bioscience and Bioengineering, 2013, 115, 1-3.	1.1	21
26	Expression and purification of an immunogenic dengue virus epitope using a synthetic consensus sequence of envelope domain III and Saccharomyces cerevisiae. Protein Expression and Purification, 2013, 88, 235-242.	0.6	21
27	Deletion of a hypoviral-regulated cppk1 gene in a chestnut blight fungus, Cryphonectria parasitica, results in microcolonies. Fungal Genetics and Biology, 2004, 41, 482-492.	0.9	20
28	Global DNA Methylation in the Chestnut Blight Fungus Cryphonectria parasitica and Genome-Wide Changes in DNA Methylation Accompanied with Sectorization. Frontiers in Plant Science, 2018, 9, 103.	1.7	20
29	Effects of initial moisture content of Korean traditional wheat-based fermentation starter nuruk on microbial abundance and diversity. Applied Microbiology and Biotechnology, 2017, 101, 2093-2106.	1.7	19
30	Assessment of the core cryparin promoter from Cryphonectria parasitica for heterologous expression in filamentous fungi. Applied Microbiology and Biotechnology, 2009, 83, 339-348.	1.7	17
31	Viral Effects of a dsRNA Mycovirus (PoV-ASI2792) on the Vegetative Growth of the Edible Mushroom Pleurotus ostreatus. Mycobiology, 2016, 44, 283-290.	0.6	17
32	Process optimization for mass production of 2,3-butanediol by Bacillus subtilis CS13. Biotechnology for Biofuels, 2021, 14, 15.	6.2	17
33	Expression of Functional Pentameric Heat-Labile Enterotoxin B Subunit of Escherichia coli in Saccharomyces cerevisiae. Journal of Microbiology and Biotechnology, 2009, 19, 502-510.	0.9	17
34	Expression of fungal phytase on the cell surface ofSaccharomyces cerevisiae. Biotechnology and Bioprocess Engineering, 2005, 10, 576.	1.4	16
35	Characterization of a novel manganese dependent endoglucanase belongs in GH family 5 from Phanerochaete chrysosporium. Journal of Bioscience and Bioengineering, 2016, 121, 154-159.	1.1	16
36	Characterization and Functional Test of Canine Probiotics. Frontiers in Microbiology, 2021, 12, 625562.	1.5	16

#	Article	IF	Citations
37	Functional Pentameric Formation via Coexpression of the Escherichia coli Heat-Labile Enterotoxin B Subunit and Its Fusion Protein Subunit with a Neutralizing Epitope of ApxIIA Exotoxin Improves the Mucosal Immunogenicity and Protection against Challenge by Actinobacillus pleuropneumoniae. Vaccine Journal, 2011, 18, 2168-2177.	3.2	15
38	Changes in the mycovirus (LeV) titer and viral effect on the vegetative growth of the edible mushroom Lentinula edodes. Virus Research, 2015, 197, 8-12.	1.1	15
39	Identification and Molecular Characterization of a Novel Partitivirus from Trichoderma atroviride NFCF394. Viruses, 2018, 10, 578.	1.5	15
40	Surface displayed expression of a neutralizing epitope of spike protein from a Korean strain of porcine epidemic diarrhea virus. Biotechnology and Bioprocess Engineering, 2007, 12, 690-695.	1.4	14
41	Expression and characterization of an M cell-specific ligand-fused dengue virus tetravalent epitope using Saccharomyces cerevisiae. Journal of Bioscience and Bioengineering, 2015, 119, 19-27.	1.1	14
42	Distinct Roles of Two DNA Methyltransferases from Cryphonectria parasitica in Fungal Virulence, Responses to Hypovirus Infection, and Viral Clearance. MBio, 2021, 12, .	1.8	14
43	Pyrosequencing reveals bacterial diversity in Korean traditional wheat-based nuruk. Journal of Microbiology, 2015, 53, 812-819.	1.3	13
44	High-level production of poly-Î³-glutamic acid from untreated molasses by Bacillus siamensis IR10. Microbial Cell Factories, 2020, 19, 101.	1.9	13
45	Occurrence of dsRNA Mycovirus (LeV-FMRI0339) in the Edible Mushroom Lentinula edodes and Meiotic Stability of LeV-FMRI0339 among Monokaryotic Progeny. Plant Pathology Journal, 2013, 29, 460-464.	0.7	13
46	Evaluation of cell-surface displayed synthetic consensus dengue EDIII cells as a potent oral vaccine candidate. Microbial Cell Factories, 2018, 17, 146.	1.9	12
47	Functional Analysis of a Tannic-Acid-Inducible and Hypoviral-Regulated Small Heat-Shock Protein Hsp24 from the Chestnut Blight Fungus Cryphonectria parasitica. Molecular Plant-Microbe Interactions, 2014, 27, 56-65.	1.4	11
48	Taxonomic Characterization, Evaluation of Toxigenicity, and Saccharification Capability of Aspergillus Section Flavi Isolates from Korean Traditional Wheat-Based Fermentation Starter Nuruk. Mycobiology, 2016, 44, 155-161.	0.6	11
49	Heterokaryon analysis of a Cdc48-like gene, CpCdc48, from the chestnut blight fungus Cryphonectria parasitica demonstrates it is essential for cell division and growth. Fungal Genetics and Biology, 2016, 88, 1-12.	0.9	11
50	Role of MAPK Signaling Pathways in Regulating the Hydrophobin Cryparin in the Chestnut Blight FungusCryphonectria parasitica. Mycobiology, 2017, 45, 362-369.	0.6	11
51	Expression of a functional human tumor necrosis factor-Î± (hTNF-Î±) in yeastSaccharomyces cerevisiae. Biotechnology and Bioprocess Engineering, 2004, 9, 292-296.	1.4	10
52	The PoV mycovirus affects extracellular enzyme expression and fruiting body yield in the oyster mushroom, Pleurotus ostreatus. Scientific Reports, 2020, 10, 1094.	1.6	10
53	Cultural characteristics and extraction of the fungal pigment phleichrome from the phytopathogenic fungusCladosporium phlei. Biotechnology and Bioprocess Engineering, 2007, 12, 508-515.	1.4	9
54	Characterization of a novel dsRNA mycovirus of Trichoderma atroviride NFCF377 reveals a member of â€œFusagraviridaeâ€•with changes in antifungal activity of the host fungus. Journal of Microbiology, 2020, 58, 1046-1053.	1.3	9

#	Article	IF	Citations
55	Simultaneous production of poly-Î³-glutamic acid and 2,3-butanediol by a newly isolated Bacillus subtilis CS13. Applied Microbiology and Biotechnology, 2020, 104, 7005-7021.	1.7	9
56	Identification of a Polyketide Synthase Gene in the Synthesis of Phleichrome of the Phytopathogenic Fungus Cladosporium phlei. Molecules and Cells, 2015, 38, 1105-1110.	1.0	9
57	Expression of a functional human interleukin-18 in yeast. Enzyme and Microbial Technology, 2002, 30, 703-709.	1.6	8
58	Rapid screening of an ordered fosmid library to clone multiple polyketide synthase genes of the phytopathogenic fungus Cladosporium phlei. Journal of Microbiological Methods, 2012, 91, 412-419.	0.7	8
59	Mycoflora and Enzymatic Characterization of Fungal Isolates in Commercial Meju, Starter for a Korean Traditional Fermented Soybean Product. Mycobiology, 2014, 42, 291-295.	0.6	8
60	Characterization of an inhibitor-resistant endo-1,4-Î²-mannanase from the gut microflora metagenome of Hermetia illucens. Biotechnology Letters, 2018, 40, 1377-1387.	1.1	8
61	Characterization of a mutant strain of a filamentous fungus Cladosporium phlei for the mass production of the secondary metabolite phleichrome. Journal of Microbiology, 2011, 49, 680-683.	1.3	7
62	Molecular characteristics of a novel hypovirus from Trichoderma harzianum. Archives of Virology, 2022, 167, 233-238.	0.9	7
63	Improved production of phleichrome from the phytopathogenic fungus Cladosporium phlei using synthetic inducers and photodynamic ROS production by phleichrome. Journal of Bioscience and Bioengineering, 2015, 119, 289-296.	1.1	6
64	Draft Genome Sequencing of the Pathogenic Fungus Cladosporium phlei ATCC 36193 Identifies Candidates of Novel Polyketide Synthase Genes Involved in Perylenequinone-Group Pigment Production. Evolutionary Bioinformatics, 2019, 15, 1176934319831130.	0.6	6
65	Characterization of a Hypovirus-Regulated Septin Cdc11 Ortholog, CpSep1, from the Chestnut Blight Fungus Cryphonectria parasitica. Molecular Plant-Microbe Interactions, 2019, 32, 286-295.	1.4	6
66	Influence of Sargassum horneri Mitigating Odorous Gas Emissions from Swine Manure Storage Facilities. Sustainability, 2020, 12, 7587.	1.6	6
67	A simple purification procedure of biologically active recombinant human granulocyte macrophage colony stimulating factor (hGM-CSF) secreted in rice cell suspension culture. Biotechnology and Bioprocess Engineering, 2004, 9, 423-427.	1.4	5
68	A Novel Rapid Fungal Promoter Analysis System Using the Phosphopantetheinyl Transferase Gene, npgA, in Aspergillus nidulans. Mycobiology, 2018, 46, 429-439.	0.6	4
69	Effects of Temperature on the Changes of Enzymatic Activities and Metabolite during Wheat nuruk Fermentation. Microbiology and Biotechnology Letters, 2015, 43, 378-384.	0.2	4
70	Optimization of Growth Medium and Fermentation Conditions for the Production of Laccase3 from Cryphonectria parasitica Using Recombinant Saccharomyces cerevisiae. Mycobiology, 2019, 47, 512-520.	0.6	3
71	Co-infection of a novel fusagravirus and a partitivirus in a Korean isolate of Rosellinia necatrix KACC40168. Virus Genes, 2021, 57, 121-126.	0.7	3
72	Antimicrobial and Antitumor Photodynamic Effects of Phleichrome from the Phytopathogenic Fungus Cladosporium Phlei. Mycobiology, 2018, 46, 448-451.	0.6	3

#	Article	IF	Citations
73	Expression of an immunocomplex consisting of Fc fragment fused with a consensus dengue envelope domain III in Saccharomyces cerevisiae. Biotechnology Letters, 2021, 43, 1895-1904.	1.1	2
74	Comparative Transcriptomic Analysis of MAPK-Mediated Regulation of Sectorization in Cryphonectria parasitica. Molecules and Cells, 2019, 42, 363-375.	1.0	2
75	Genome analysis of Bacteroides sp.CACC 737 isolated from feline for its potential application. Journal of Animal Science and Technology, 2020, 62, 952-955.	0.8	2
76	Interaction between hypoviral-regulated fungal virulence factor laccase3 and small heat shock protein Hsp24 from the chestnut blight fungus Cryphonectria parasitica. Journal of Microbiology, 2021, 60, 57.	1.3	2
77	Expression of nutritionally well-balanced protein, AmA1, inSaccharomyces cerevisiae. Biotechnology and Bioprocess Engineering, 2001, 6, 173-178.	1.4	1
78	Melanogenesis inhibitory effect of dehydroevodiamine isolated from fruits of Evodia rutaecarpa. Korean Journal of Chemical Engineering, 2010, 27, 915-918.	1.2	1
79	Functional analysis of an essential Ran-binding protein gene, CpRbp1, from the chestnut blight fungus Cryphonectria parasitica using heterokaryon rescue. Scientific Reports, 2020, 10, 8111.	1.6	1
80	Characterization ofAspergillus nigerMutants Deficient of a Protease. Mycobiology, 2002, 30, 160.	0.6	1
81	Functional Analysis of an Essential GSP1/Ran Ortholog Gene, CpRan1, from the Chestnut Blight Fungus Cryphonectria parasitica Using a Heterokaryon. Journal of Fungi (Basel, Switzerland), 2021, 7, 332.	1.5	0
82	Complete genome sequence of Bacillus coagulans CACC834 isolated from canine. Journal of Animal Science and Technology, 2021, 63, 1464-1467.	0.8	0