

Si W Kim

List of Publications by Year in descending order

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91
papers

2,556
citations

201674

27
h-index

214800

47
g-index

91
all docs

91
docs citations

91
times ranked

3194
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of temperature and hydraulic retention time on anaerobic digestion of food waste. <i>Journal of Bioscience and Bioengineering</i> , 2006, 102, 328-332.	2.2	290
2	Synthesis and structure-activity relationships of novel indirubin derivatives as potent anti-proliferative agents with CDK2 inhibitory activities. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 237-246.	3.0	115
3	Statistical optimization of enzymatic saccharification and ethanol fermentation using food waste. <i>Process Biochemistry</i> , 2008, 43, 1308-1312.	3.7	115
4	A novel flavin-containing monooxygenase from <i>Methylophaga</i> sp. strain SK1 and its indigo synthesis in <i>Escherichia coli</i> . <i>Biochemical and Biophysical Research Communications</i> , 2003, 306, 930-936.	2.1	100
5	Growth of <i>Mycobacteria</i> on Carbon Monoxide and Methanol. <i>Journal of Bacteriology</i> , 2003, 185, 142-147.	2.2	87
6	STABILIZATION OF HYPOXIA-INDUCIBLE FACTOR-1 α IS INVOLVED IN THE HYPOXIC STIMULI-INDUCED EXPRESSION OF VASCULAR ENDOTHELIAL GROWTH FACTOR IN OSTEOBLASTIC CELLS. <i>Cytokine</i> , 2002, 17, 14-27.	3.2	85
7	Effects of carbon source and light intensity on the growth and total lipid production of three microalgae under different culture conditions. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016, 43, 605-616.	3.0	85
8	Optimization of culture conditions and comparison of biomass productivity of three green algae. <i>Bioprocess and Biosystems Engineering</i> , 2012, 35, 19-27.	3.4	81
9	Optimization of methanol biosynthesis from methane using <i>Methylosinus trichosporium</i> OB3b. <i>Biotechnology Letters</i> , 2004, 26, 947-950.	2.2	79
10	IL-1 α Stimulation of Osteoclast Survival through the PI 3-Kinase/Akt and ERK Pathways. <i>Journal of Biochemistry</i> , 2002, 131, 161-166.	1.7	76
11	<i>Methylophaga aminisulfidivorans</i> sp. nov., a restricted facultatively methylotrophic marine bacterium. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2007, 57, 2096-2101.	1.7	74
12	Hydrogen production conditions from food waste by dark fermentation with <i>Clostridium beijerinckii</i> KCTC 1785. <i>Biotechnology and Bioprocess Engineering</i> , 2008, 13, 499-504.	2.6	74
13	Brassinosteroids control AtEXPA5 gene expression in <i>Arabidopsis thaliana</i> . <i>Phytochemistry</i> , 2010, 71, 380-387.	2.9	73
14	<i>Escherichia coli</i> ribonuclease III activity is downregulated by osmotic stress: consequences for the degradation of <i>bdm</i> mRNA in biofilm formation. <i>Molecular Microbiology</i> , 2010, 75, 413-425.	2.5	71
15	Comparison of biomass production and total lipid content of freshwater green microalgae cultivated under various culture conditions. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 99-106.	3.4	71
16	Volumetric scale-up of a three stage fermentation system for food waste treatment. <i>Bioresource Technology</i> , 2008, 99, 4394-4399.	9.6	59
17	Optimization of lab scale methanol production by <i>Methylosinus trichosporium</i> OB3b. <i>Biotechnology and Bioprocess Engineering</i> , 2010, 15, 476-480.	2.6	50
18	The <i>Drosophila</i> homolog of methionine sulfoxide reductase A extends lifespan and increases nuclear localization of FOXO. <i>FEBS Letters</i> , 2010, 584, 3609-3614.	2.8	49

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19	Selective Algicidal Action of Peptides against Harmful Algal Bloom Species. <i>PLoS ONE</i> , 2011, 6, e26733.	2.5	45
20	Optimization of bio-indigo production by recombinant <i>E. coli</i> harboring <i>fmo</i> gene. <i>Enzyme and Microbial Technology</i> , 2008, 42, 617-623.	3.2	43
21	Enhanced indirubin production in recombinant <i>Escherichia coli</i> harboring a flavin-containing monooxygenase gene by cysteine supplementation. <i>Journal of Biotechnology</i> , 2013, 164, 179-187.	3.8	42
22	Bio-indigo production in two different fermentation systems using recombinant <i>Escherichia coli</i> cells harboring a flavin-containing monooxygenase gene (<i>fmo</i>). <i>Process Biochemistry</i> , 2011, 46, 788-791.	3.7	39
23	Structural and functional analysis of bacterial flavin-containing monooxygenase reveals its ping-pong-type reaction mechanism. <i>Journal of Structural Biology</i> , 2011, 175, 39-48.	2.8	32
24	Thiazolidinediones as a Novel Class of Algicides Against Red Tide Harmful Algal Species. <i>Applied Biochemistry and Biotechnology</i> , 2010, 162, 2273-2283.	2.9	31
25	Microbial consortia including methanotrophs: some benefits of living together. <i>Journal of Microbiology</i> , 2019, 57, 939-952.	2.8	31
26	Gold nanoparticle-assisted delivery of small, highly structured RNA into the nuclei of human cells. <i>Biochemical and Biophysical Research Communications</i> , 2011, 416, 178-183.	2.1	30
27	Molecular cloning and functional characterization of the genes encoding benzoate and p-hydroxybenzoate degradation by the halophilic <i>Chromohalobacter</i> sp. strain HS-2. <i>FEMS Microbiology Letters</i> , 2008, 280, 235-241.	1.8	28
28	Algicidal Activity of Thiazolidinedione Derivatives Against Harmful Algal Blooming Species. <i>Marine Biotechnology</i> , 2012, 14, 312-322.	2.4	27
29	Isolation and characterization of algicidal bacteria from <i>Cochlodinium polykrikoides</i> culture. <i>Biotechnology and Bioprocess Engineering</i> , 2011, 16, 1124-1133.	2.6	24
30	Comparative analysis of two types of methanol dehydrogenase from <i>Methylophaga aminisulfidivorans</i> MP ^T grown on methanol. <i>Journal of Basic Microbiology</i> , 2012, 52, 141-149.	3.3	21
31	Expression of Each Cistron in the <i>gal</i> Operon Can Be Regulated by Transcription Termination and Generation of a <i>galK</i> -Specific mRNA, <i>mk2</i> . <i>Journal of Bacteriology</i> , 2014, 196, 2598-2606.	2.2	21
32	Effect of Leucine and Lysine substitution on the antimicrobial activity and evaluation of the mechanism of the HPA3NT3 analog peptide. <i>Journal of Peptide Science</i> , 2009, 15, 589-594.	1.4	20
33	Enhanced species-specific chemical control of harmful and non-harmful algal bloom species by the thiazolidinedione derivative TD49. <i>Journal of Applied Phycology</i> , 2014, 26, 311-321.	2.8	20
34	Inhibition of xenograft tumor growth in mice by gold nanoparticle-assisted delivery of short hairpin RNAs against Mcl-1L. <i>Journal of Biotechnology</i> , 2011, 156, 89-94.	3.8	19
35	Optimization of Cell Disruption and Transesterification of Lipids from <i>Botryococcus braunii</i> LB572. <i>Biotechnology and Bioprocess Engineering</i> , 2018, 23, 550-556.	2.6	19
36	Development of a Modified Three-Stage Methane Production Process Using Food Wastes. <i>Applied Biochemistry and Biotechnology</i> , 2000, 84-86, 731-742.	2.9	17

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37	Algicidal activity of the thiazolidinedione derivative TD49 against the harmful dinoflagellate <i>Heterocapsa circularisquama</i> in a mesocosm enclosure. <i>Journal of Applied Phycology</i> , 2013, 25, 1555-1565.	2.8	17
38	Algicidal effects on <i>Heterosigma akashiwo</i> and <i>Chattonella marina</i> (Raphidophyceae), and toxic effects on natural plankton assemblages by a thiazolidinedione derivative TD49 in a microcosm. <i>Journal of Applied Phycology</i> , 2013, 25, 1055-1064.	2.8	17
39	Structural characterization and temperature-dependent production of C17-fengycin B derived from <i>Bacillus amyloliquefaciens</i> subsp. <i>plantarum</i> BC32-1. <i>Biotechnology and Bioprocess Engineering</i> , 2015, 20, 708-713.	2.6	16
40	Algicidal effects of yellow clay and the thiazolidinedione derivative TD49 on the fish-killing dinoflagellate <i>Cochlodinium polykrikoides</i> in microcosm experiments. <i>Journal of Applied Phycology</i> , 2014, 26, 2367-2378.	2.8	15
41	A Second Molybdoprotein Aldehyde Dehydrogenase from <i>Amycolatopsis methanolica</i> NCIB 11946. <i>Archives of Biochemistry and Biophysics</i> , 1996, 325, 1-7.	3.0	14
42	Regulation of the <i>ald</i> Gene Encoding Alanine Dehydrogenase by AldR in <i>Mycobacterium smegmatis</i> . <i>Journal of Bacteriology</i> , 2013, 195, 3610-3620.	2.2	14
43	Detection of diverse marine algal viruses in the South Sea regions of Korea by PCR amplification of the DNA polymerase and major capsid protein genes. <i>Virus Research</i> , 2011, 159, 43-50.	2.2	13
44	The crystal structure of methanol dehydrogenase, a quinoprotein from the marine methylotrophic bacterium <i>Methylophaga aminisulfidivorans</i> MPT. <i>Journal of Microbiology</i> , 2018, 56, 246-254.	2.8	13
45	Mass Production of Methane from Food Wastes with Concomitant Wastewater Treatment. <i>Applied Biochemistry and Biotechnology</i> , 2002, 98-100, 753-764.	2.9	12
46	Isolation and taxonomic characterization of a novel type I methanotrophic bacterium. <i>Journal of Microbiology</i> , 2008, 46, 45-50.	2.8	12
47	Comparison of the acute toxicities of novel algicides, thiazolidinedione derivatives TD49 and TD53, to various marine organisms. <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 2810-2816.	4.3	12
48	Draft Genome Sequence of <i>Methylophaga aminisulfidivorans</i> MP ^T . <i>Journal of Bacteriology</i> , 2011, 193, 4265-4265.	2.2	12
49	MxaJ structure reveals a periplasmic binding protein-like architecture with unique secondary structural elements. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017, 85, 1379-1386.	2.6	12
50	A new thermolabile alkaline phospholipase D from <i>Streptomyces</i> sp. CS628. <i>Biotechnology and Bioprocess Engineering</i> , 2010, 15, 595-602.	2.6	11
51	A novel thiazolidinedione derivative TD118 showing selective algicidal effects for red tide control. <i>World Journal of Microbiology and Biotechnology</i> , 2014, 30, 1603-1614.	3.6	11
52	Steam plasma reforming of biogas by non-thermal pulsed discharge. <i>Korean Journal of Chemical Engineering</i> , 2004, 21, 670-675.	2.7	10
53	Purification, crystallization and preliminary X-ray crystallographic analysis of a methanol dehydrogenase from the marine bacterium <i>Methylophaga aminisulfidivorans</i> MP ^T . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 513-516.	0.7	10
54	Chromatographic methods for characterization of poly(ethylene glycol)-modified polyamidoamine dendrimers. <i>Analytical Biochemistry</i> , 2014, 449, 42-44.	2.4	10

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55	Biodegradation of Methyl Orange by alginate-immobilized <i>Aeromonas</i> sp. in a packed bed reactor: external mass transfer modeling. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 2149-2162.	3.4	10
56	A Novel Approach to Induce Cementation of Loose Soils. <i>Advanced Science Letters</i> , 2012, 9, 545-550.	0.2	10
57	The CnuK9E H-NS Complex Antagonizes DNA Binding of DicA and Leads to Temperature-Dependent Filamentous Growth in <i>E. coli</i> . <i>PLoS ONE</i> , 2012, 7, e45236.	2.5	10
58	Enhanced method for microbial community DNA extraction and purification from agricultural yellow loess soil. <i>Journal of Microbiology</i> , 2015, 53, 767-775.	2.8	9
59	An Overview of Microbial α -amylase and Recent Biotechnological Developments. <i>Current Biotechnology</i> , 2022, 11, 11-26.	0.4	9
60	Purification and characterization of two forms of methanol dehydrogenases from a marine methylophage. <i>Journal of Basic Microbiology</i> , 2002, 42, 238.	3.3	8
61	Purification and characterization of a methanol dehydrogenase derived from <i>Methylomicrobium</i> sp. HG-1 cultivated using a compulsory circulation diffusion system. <i>Biotechnology and Bioprocess Engineering</i> , 2006, 11, 134-139.	2.6	8
62	Voltammetric detection of trimethylamine using immobilized trimethylamine dehydrogenase on an electrodeposited goldnanoparticle electrode. <i>Biotechnology and Bioprocess Engineering</i> , 2011, 16, 631-637.	2.6	8
63	Molecular cloning, purification, and characterization of a superoxide dismutase from a fast-growing <i>Mycobacterium</i> sp. Strain JC1 DSM 3803. <i>Journal of Microbiology</i> , 2011, 49, 399-406.	2.8	8
64	Combination of 1,4-naphthoquinone with benzothiazoles had selective algicidal effects against harmful algae. <i>Biotechnology and Bioprocess Engineering</i> , 2013, 18, 932-941.	2.6	8
65	Effects of the algicide, thiazolidinedione derivative TD49, on microbial communities in a mesocosm experiment. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 163.	2.7	8
66	Involvement of the catalytically important Asp54 residue of <i>Mycobacterium smegmatis</i> DevR in protein-protein interactions between DevR and DevS. <i>FEMS Microbiology Letters</i> , 2013, 343, 26-33.	1.8	7
67	Isolation and Physiological Characterization of a New Algicidal Virus Infecting the Harmful Dinoflagellate <i>Heterocapsa pygmaea</i> . <i>Plant Pathology Journal</i> , 2012, 28, 433-438.	1.7	7
68	Purification, characterization, and cloning of trimethylamine dehydrogenase from <i>Methylophaga</i> sp. strain SK1. <i>Biotechnology and Bioprocess Engineering</i> , 2006, 11, 337-343.	2.6	6
69	Construction of target-specific virus-like particles for the delivery of algicidal compounds to harmful algae. <i>Environmental Microbiology</i> , 2015, 17, 1463-1474.	3.8	6
70	An Overview on Methanotrophs and the Role of <i>Methylosinus trichosporium</i> OB3b for Biotechnological Applications. <i>Biotechnology and Bioprocess Engineering</i> , 2022, 27, 468-481.	2.6	6
71	Title is missing!. <i>Biotechnology Letters</i> , 2002, 24, 1397-1400.	2.2	5
72	Potential of Bortezomib-Induced Apoptosis by TGF- β 2 in Cultured Human Tenon's Fibroblasts: Contribution of the PI3K/Akt Signaling Pathway. , 2010, 51, 6232.		5

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73	Growth factors in oceanic sediment significantly stimulate the biomass and lipid production of two oleaginous microalgae. <i>Journal of Applied Phycology</i> , 2019, 31, 49-59.	2.8	5
74	Characterization of <i>Methylophaga</i> sp. strain SK1 cytochrome cL expressed in <i>Escherichia coli</i> . <i>Journal of Microbiology</i> , 2005, 43, 499-502.	2.8	5
75	Response of <i>Chattonella marina</i> (Raphidophyceae) and marine plankton to yellow clay and thiazolidinedione derivative TD49 in a mesocosm enclosure. <i>Journal of Applied Phycology</i> , 2017, 29, 285-296.	2.8	4
76	Achieving Maximal Production of Fusaricidins from <i>Paenibacillus kribbensis</i> CU01 via Continuous Fermentation. <i>Applied Biochemistry and Biotechnology</i> , 2020, 190, 712-720.	2.9	4
77	Isolation and Characterization of a Mutant Defective in the Production of Methanol Dehydrogenase from a New Restricted Facultative Methanol-Oxidizing Bacterium. <i>IUBMB Life</i> , 1999, 48, 209-213.	3.4	3
78	Expression and bioconversion of recombinant m- and p-hydroxybenzoate hydroxylases from a novel moderate halophile, <i>Chromohalobacter</i> sp.. <i>Biotechnology Letters</i> , 2012, 34, 1687-1692.	2.2	3
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	Isolation and NMR Analysis of Antifungal Fengycin A and B from <i>Bacillus amyloliquefaciens</i> subsp. <i>plantarum</i> BC324. <i>Bulletin of the Korean Chemical Society</i> , 2015, 36, 1316-1321.	1.9	3
81	Isolation and Characterization of a Mutant Defective in the Production of Methanol Dehydrogenase from a New Restricted Facultative Methanol-Oxidizing Bacterium. <i>IUBMB Life</i> , 1999, 48, 209-213.	3.4	2
82	Evaluation of steady state and unsteady state mass transfer rate of Cr(VI) in immobilized <i>Bacillus</i> sp.. <i>Biotechnology and Bioprocess Engineering</i> , 2015, 20, 267-275.	2.6	2
83	Structural analysis and enhanced production of fusaricidin from <i>Paenibacillus kribbensis</i> CU01 isolated from yellow loess. <i>Journal of Basic Microbiology</i> , 2017, 57, 525-535.	3.3	2
84	Complete Genome Sequence of <i>Methylomonas koyamae</i> LM6, a Potential Aerobic Methanotroph. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	2
85	Crystal structure of Cytochrome cL from the aquatic methylotrophic bacterium <i>Methylophaga aminisulfidivorans</i> MP ^T . <i>Journal of Microbiology and Biotechnology</i> , 2020, 30, 1261-1271.	2.1	2
86	Identification and characterization of a RecA-like protein induced by DNA damaging agents in fluorescent <i>Pseudomonas</i> sp.. <i>Korean Journal of Biological Sciences</i> , 1998, 2, 383-388.	0.1	1
87	Molecular cloning and characterization of a recA-like gene induced by DNA damage from a fluorescent <i>Pseudomonas</i> sp.. <i>Korean Journal of Biological Sciences</i> , 1999, 3, 229-236.	0.1	1
88	SynGas Production from Organic Waste Using Non-Thermal-Pulsed Discharge. <i>Journal of the Air and Waste Management Association</i> , 2005, 55, 430-436.	1.9	1
89	Functional investigation of residue G791 of <i>Escherichia coli</i> 16S rRNA: implication of initiation factor 1 in the restoration of P-site function. <i>FEMS Microbiology Letters</i> , 2010, 313, 141-147.	1.8	1
90	Sequence of electron carriers in the process of methanol oxidation by a new obligate methylotrophic bacterium. <i>IUBMB Life</i> , 1998, 46, 807-819.	3.4	0

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91	Over-expression and Host-specific Algicidal Effect of Virus-like Particles from Capsid Gene of HcRNAV34 Virus Infecting against a Harmful alga, <i>Heterocapsa circularisquama</i> . KSBB Journal, 2021, 36, 285-295.	0.2	0