

Joonhong Park

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

2,352
citations

185998

28
h-index

233125

45
g-index

78
all docs

78
docs citations

78
times ranked

3586
citing authors

#	ARTICLE	IF	CITATIONS
1	Classification of the biphenyl- and polychlorinated biphenyl-degrading strain LB400T and relatives as <i>Burkholderia xenovorans</i> sp. nov.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2004, 54, 1677-1681.	0.8	171
2	Nitrogen removal with energy recovery through N ₂ O decomposition. <i>Energy and Environmental Science</i> , 2013, 6, 241-248.	15.6	114
3	Molecular approaches for the detection and monitoring of microbial communities in bioaerosols: A review. <i>Journal of Environmental Sciences</i> , 2017, 51, 234-247.	3.2	113
4	Association of Biodiversity with the Rates of Micropollutant Biotransformations among Full-Scale Wastewater Treatment Plant Communities. <i>Applied and Environmental Microbiology</i> , 2015, 81, 666-675.	1.4	98
5	Treatment of Alcohol Distillery Wastewater Using a Bacteroidetes-Dominant Thermophilic Microbial Fuel Cell. <i>Environmental Science & Technology</i> , 2012, 46, 3022-3030.	4.6	97
6	DNA-Stable Isotope Probing Integrated with Metagenomics for Retrieval of Biphenyl Dioxygenase Genes from Polychlorinated Biphenyl-Contaminated River Sediment. <i>Applied and Environmental Microbiology</i> , 2009, 75, 5501-5506.	1.4	96
7	Microbial community structures differentiated in a single-chamber air-cathode microbial fuel cell fueled with rice straw hydrolysate. <i>Biotechnology for Biofuels</i> , 2014, 7, 9.	6.2	75
8	Discovery of commonly existing anode biofilm microbes in two different wastewater treatment MFCs using FLX Titanium pyrosequencing. <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 2335-2343.	1.7	70
9	Increased nitrous oxide accumulation by bioelectrochemical denitrification under autotrophic conditions: Kinetics and expression of denitrification pathway genes. <i>Water Research</i> , 2013, 47, 7087-7097.	5.3	64
10	Evaluating integrated strategies for robust treatment of high saline piggery wastewater. <i>Water Research</i> , 2016, 89, 222-231.	5.3	64
11	The functional and taxonomic richness of wastewater treatment plant microbial communities are associated with each other and with ambient nitrogen and carbon availability. <i>Environmental Microbiology</i> , 2015, 17, 4851-4860.	1.8	59
12	Coping with Polychlorinated Biphenyl (PCB) Toxicity: Physiological and Genome-Wide Responses of <i>Burkholderia xenovorans</i> LB400 to PCB-Mediated Stress. <i>Applied and Environmental Microbiology</i> , 2006, 72, 6607-6614.	1.4	57
13	Anaerobic oxidation of methane coupled with extracellular electron transfer to electrodes. <i>Scientific Reports</i> , 2017, 7, 5099.	1.6	49
14	Exploring the antibiotic resistome in activated sludge and anaerobic digestion sludge in an urban wastewater treatment plant via metagenomic analysis. <i>Journal of Microbiology</i> , 2020, 58, 123-130.	1.3	48
15	Decision tree-based data mining and rule induction for identifying hydrogeological parameters that influence groundwater pollution sensitivity. <i>Journal of Cleaner Production</i> , 2016, 122, 277-286.	4.6	47
16	Monitoring the microbial community shift throughout the shock changes of hydraulic retention time in an anaerobic moving bed membrane bioreactor. <i>Bioresource Technology</i> , 2016, 202, 125-132.	4.8	45
17	High rate nitrogen removal by ANAMMOX internal circulation reactor (IC) for old landfill leachate treatment. <i>Bioresource Technology</i> , 2017, 234, 281-288.	4.8	45
18	Assessment of phenanthrene bioavailability in aged and unaged soils by mild extraction. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 549-559.	1.3	42

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19	Novel Biphenyl-Oxidizing Bacteria and Dioxygenase Genes from a Korean Tidal Mudflat. <i>Applied and Environmental Microbiology</i> , 2011, 77, 3888-3891.	1.4	36
20	Hypoxic methane oxidation coupled to denitrification in a membrane biofilm. <i>Chemical Engineering Journal</i> , 2018, 348, 745-753.	6.6	34
21	Classification and Regression Tree Approach for Prediction of Potential Hazards of Urban Airborne Bacteria during Asian Dust Events. <i>Scientific Reports</i> , 2018, 8, 11823.	1.6	34
22	Characterization of sequence-specific errors in various next-generation sequencing systems. <i>Molecular BioSystems</i> , 2016, 12, 914-922.	2.9	33
23	Feasibility of membrane distillation process for potable water reuse: A barrier for dissolved organic matters and pharmaceuticals. <i>Journal of Hazardous Materials</i> , 2021, 409, 124499.	6.5	33
24	Environmentally relevant parameters affecting PCB degradation: carbon source- and growth phase-mitigated effects of the expression of the biphenyl pathway and associated genes in <i>Burkholderia xenovorans</i> LB400. <i>Biodegradation</i> , 2010, 21, 147-156.	1.5	31
25	<i>Dyadobacter soli</i> sp. nov., a starch-degrading bacterium isolated from farm soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2010, 60, 2577-2582.	0.8	31
26	Bacterial community analysis of swine manure treated with autothermal thermophilic aerobic digestion. <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 835-842.	1.7	31
27	<i>Ochrobactrum daejeonense</i> sp. nov., a nitrate-reducing bacterium isolated from sludge of a leachate treatment plant. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2011, 61, 2690-2696.	0.8	30
28	The capacity of wastewater treatment plants drives bacterial community structure and its assembly. <i>Scientific Reports</i> , 2019, 9, 14809.	1.6	30
29	A Large Gene Cluster in <i>Burkholderia xenovorans</i> Encoding Abietane Diterpenoid Catabolism. <i>Journal of Bacteriology</i> , 2007, 189, 6195-6204.	1.0	29
30	4-Chlorophenol biodegradation facilitator composed of recombinant multi-biocatalysts immobilized onto montmorillonite. <i>Bioresource Technology</i> , 2018, 259, 268-275.	4.8	29
31	Characterization of microbial community structure and population dynamics of tetrachloroethene-dechlorinating tidal mudflat communities. <i>Biodegradation</i> , 2011, 22, 687-698.	1.5	27
32	A toxicological review on potential microbial degradation intermediates of 2,4,6-trinitrotoluene, and its implications in bioremediation. <i>KSCE Journal of Civil Engineering</i> , 2013, 17, 1223-1231.	0.9	27
33	Improved RDX detoxification with starch addition using a novel nitrogen-fixing aerobic microbial consortium from soil contaminated with explosives. <i>Journal of Hazardous Materials</i> , 2015, 287, 243-251.	6.5	26
34	Microbial Degradation and Toxicity of Hexahydro-1,3,5-Trinitro-1,3,5-Triazine. <i>Journal of Microbiology and Biotechnology</i> , 2012, 22, 1311-1323.	0.9	25
35	Effect of Algal Inoculation on COD and Nitrogen Removal, and Indigenous Bacterial Dynamics in Municipal Wastewater. <i>Journal of Microbiology and Biotechnology</i> , 2016, 26, 900-908.	0.9	24
36	Treatment of abandoned coal mine discharged waters using lime wastes. <i>Geosciences Journal</i> , 2007, 11, 111-114.	0.6	23

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37	Biotoxicity Assessment of Pyrene in Soil Using a Battery of Biological Assays. Archives of Environmental Contamination and Toxicology, 2012, 63, 503-512.	2.1	23
38	Effective seeding strategy using flat type poly (vinyl alcohol) cryogel for anammox enrichment. Chemosphere, 2018, 205, 88-97.	4.2	23
39	A Battery of Bioassays for the Evaluation of Phenanthrene Biotoxicity in Soil. Archives of Environmental Contamination and Toxicology, 2013, 65, 47-55.	2.1	22
40	Enhanced selective enrichment of partial nitrification and anammox bacteria in a novel two-stage continuous flow system using flat-type poly (vinylalcohol) cryogel films. Bioresource Technology, 2020, 300, 122546.	4.8	20
41	Enhanced phenol removal by floating fungal populations in a high concentration phenol-fed membrane bioreactor. Desalination, 2008, 221, 494-501.	4.0	19
42	Prostheco bacter algae sp. nov., isolated from activated sludge using algal metabolites. International Journal of Systematic and Evolutionary Microbiology, 2014, 64, 663-667.	0.8	19
43	Linking process performances and core microbial community structures in anaerobic membrane bioreactor with rotatory disk (ARMBR) system fed with high-strength food waste recycling wastewater. Bioresource Technology, 2019, 291, 121918.	4.8	19
44	Characterization of the Adaptive Response to Trichloroethylene-Mediated Stresses in <i>Ralstonia pickettii</i> PKO1. Applied and Environmental Microbiology, 2002, 68, 5231-5240.	1.4	18
45	The use of cochineal and <i>Monascus purpureus</i> dyes for cotton fabric. Coloration Technology, 2013, 129, 246-251.	0.7	18
46	<i>Agromyces soli</i> sp. nov., isolated from farm soil. International Journal of Systematic and Evolutionary Microbiology, 2011, 61, 1286-1292.	0.8	17
47	Effect of trophic conditions on microalga growth, nutrient removal, algal organic matter, and energy storage products in <i>Scenedesmus (Acutodesmus) obliquus</i> KGE-17 cultivation. Bioprocess and Biosystems Engineering, 2019, 42, 1225-1234.	1.7	17
48	<i>Nocardioidea daeguensis</i> sp. nov., a nitrate-reducing bacterium isolated from activated sludge of an industrial wastewater treatment plant. International Journal of Systematic and Evolutionary Microbiology, 2013, 63, 3727-3732.	0.8	16
49	Improved TNT detoxification by starch addition in a nitrogen-fixing <i>Methylophilus</i> -dominant aerobic microbial consortium. Journal of Hazardous Materials, 2015, 300, 873-881.	6.5	16
50	Sustainable Water Infrastructure Asset Management: A Gap Analysis of Customer and Service Provider Perspectives. Sustainability, 2015, 7, 13334-13350.	1.6	16
51	Improved control of multiple-antibiotic-resistance-related microbial risk in swine manure wastes by autothermal thermophilic aerobic digestion. Water Science and Technology, 2009, 59, 267-271.	1.2	15
52	Cancer and non-cancer risk associated with PM10-bound metals in subways. Transportation Research, Part D: Transport and Environment, 2020, 89, 102618.	3.2	15
53	Using decision tree to develop a soil ecological quality assessment system for planning sustainable construction. Expert Systems With Applications, 2011, 38, 5463-5470.	4.4	14
54	Using GA-Ridge regression to select hydro-geological parameters influencing groundwater pollution vulnerability. Environmental Monitoring and Assessment, 2012, 184, 6637-6645.	1.3	14

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55	Brevibacterium daeguense sp. nov., a nitrate-reducing bacterium isolated from a 4-chlorophenol enrichment culture. International Journal of Systematic and Evolutionary Microbiology, 2013, 63, 152-157.	0.8	14
56	Bacillus-Dominant Airborne Bacterial Communities Identified During Asian Dust Events. Microbial Ecology, 2019, 78, 677-687.	1.4	13
57	Effect of carbon starvation on toluene degradation activity by toluene monooxygenase-expressing bacteria. Biodegradation, 2006, 17, 437-445.	1.5	12
58	Decision-Tree-based data mining and rule induction for predicting and mapping soil bacterial diversity. Environmental Monitoring and Assessment, 2011, 178, 595-610.	1.3	12
59	Improved detection of microbial risk of releasing genetically modified bacteria in soil by using massive sequencing and antibiotic resistance selection. Journal of Hazardous Materials, 2012, 227-228, 172-178.	6.5	11
60	Commuters health risk associated with particulate matter exposures in subway system “ Globally. Building and Environment, 2022, 216, 109036.	3.0	11
61	Pilot-Scale Bio-Augmented Aerobic Composting of Excavated Foot-And-Mouth Disease Carcasses. Sustainability, 2017, 9, 445.	1.6	7
62	What we can see from very small size sample of metagenomic sequences. BMC Bioinformatics, 2018, 19, 399.	1.2	7
63	Evaluation of natural attenuation-potential and biogeochemical analysis in nitrate contaminated bedrock aquifers by carbon source injection. Science of the Total Environment, 2021, 780, 146459.	3.9	7
64	Combining activated sludge process with membrane separation to obtain recyclable quality water from paper mill effluent. Clean Technologies and Environmental Policy, 2015, 17, 781-788.	2.1	6
65	Bathroom wastewater treatment in constructed wetlands with planting, non-planting and aeration, non-aeration conditions. Desalination and Water Treatment, 2016, 57, 709-717.	1.0	5
66	Effects of the ammonium loading rate on nitrite-oxidizing activity during nitrification at a high dose of inorganic carbon. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2018, 53, 708-717.	0.9	5
67	Induction kinetics of aerobic toluene degradation as a function of carbon starvation history. Process Biochemistry, 2008, 43, 1345-1351.	1.8	4
68	Improved phenol degradation in high-phenol-fed MBR by membrane-driven containment of non-settling biodegradation microbes. Desalination and Water Treatment, 2011, 31, 320-325.	1.0	4
69	Correction of sequence-dependent ambiguous bases (Ns) from the 454 pyrosequencing system. Nucleic Acids Research, 2014, 42, e51-e51.	6.5	4
70	Gap Analysis Based Decision Support Methodology to Improve Level of Service of Water Services. Sustainability, 2017, 9, 1578.	1.6	4
71	Quantitative structure-activity relationship (QSAR) analysis of aromatic effector specificity in NtrC-like transcriptional activators from aromatic oxidizing bacteria. FEMS Microbiology Letters, 2003, 224, 45-52.	0.7	3
72	Cancer Risk Levels for Sediment- and Soil-Bound Polycyclic Aromatic Hydrocarbons in Coastal Areas of South Korea. Frontiers in Environmental Science, 2021, 9, .	1.5	3

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73	A <i>Sporolactobacillus</i> , <i>Clostridium</i> , and <i>Paenibacillus</i> - Dominant Microbial Consortium Improved Anaerobic RDX Detoxification by Starch Addition. <i>Journal of Microbiology and Biotechnology</i> , 2020, 30, 839-847.	0.9	3
74	Polycyclic Aromatic Hydrocarbons in Soil and Human Health Risk Levels for Various Land-Use Areas in Ulsan, South Korea. <i>Frontiers in Environmental Science</i> , 2022, 9, .	1.5	3
75	Emission inventory of PM10 in Dhanbad/Jharia coalfield (JCF), India: an intricate coal mining sector. <i>Environment, Development and Sustainability</i> , 2021, 23, 3048-3061.	2.7	2
76	An Improved Approach to Identify Bacterial Pathogens to Human in Environmental Metagenome. <i>Journal of Microbiology and Biotechnology</i> , 2020, 30, 1335-1342.	0.9	2
77	Rapid and Robust Denoising of Pyrosequenced Amplicons for Metagenomics. , 2012, , .		1
78	Proposed Methodological Framework of Assessing LID (Low Impact Development) Impact on Soil-Groundwater Environmental Quality. <i>Journal of the Korean Geoenvironmental Society</i> , 2014, 15, 39-50.	0.1	1