Kung-Hui Chu

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Biodegradation potential of wastewater micropollutants by ammonia-oxidizing bacteria. Chemosphere, 2009, 77, 1084-1089.	8.2	232
2	17β-Estradiol-Degrading Bacteria Isolated from Activated Sludge. Environmental Science & Technology, 2007, 41, 486-492.	10.0	213
3	Variable carbon isotope fractionation expressed by aerobic CH4-oxidizing bacteria. Geochimica Et Cosmochimica Acta, 2006, 70, 1739-1752.	3.9	175
4	Microbial degradation of steroidal estrogens. Chemosphere, 2013, 91, 1225-1235.	8.2	162
5	Biodegradation of triclosan by a wastewater microorganism. Water Research, 2012, 46, 4226-4234.	11.3	139
6	Occurrence of pharmaceuticals and personal care products along the West Prong Little Pigeon River in east Tennessee, USA. Chemosphere, 2009, 75, 1281-1286.	8.2	121
7	Biochemical Mechanisms and Catabolic Enzymes Involved in Bacterial Estrogen Degradation Pathways. Cell Chemical Biology, 2017, 24, 712-724.e7.	5.2	96
8	MTBE and Other Oxygenates: Environmental Sources, Analysis, Occurrence, and Treatment. Environmental Engineering Science, 2003, 20, 433-447.	1.6	86
9	Biodefluorination and biotransformation of fluorotelomer alcohols by two alkaneâ€degrading <i>Pseudomonas</i> strains. Biotechnology and Bioengineering, 2012, 109, 3041-3048.	3.3	75
10	Biodegradation of 1,4-dioxane: Effects of enzyme inducers and trichloroethylene. Science of the Total Environment, 2015, 520, 154-159.	8.0	73
11	6:2 Fluorotelomer alcohol (6:2 FTOH) biodegradation by multiple microbial species under different physiological conditions. Applied Microbiology and Biotechnology, 2014, 98, 1831-1840.	3.6	71
12	Quantitative Molecular Assay for Fingerprinting Microbial Communities of Wastewater and Estrogen-Degrading Consortia. Applied and Environmental Microbiology, 2005, 71, 1433-1444.	3.1	69
13	Stable Carbon Isotope Fractionation during Aerobic Biodegradation of Chlorinated Ethenes. Environmental Science & Technology, 2004, 38, 3126-3130.	10.0	65
14	Reusable Functionalized Hydrogel Sorbents for Removing Long- and Short-Chain Perfluoroalkyl Acids (PFAAs) and GenX from Aqueous Solution. ACS Omega, 2018, 3, 17447-17455.	3.5	64
15	Effectiveness of zinc oxide-assisted photocatalysis for concerned constituents in reclaimed wastewater: 1,4-Dioxane, trihalomethanes, antibiotics, antibiotic resistant bacteria (ARB), and antibiotic resistance genes (ARGs). Science of the Total Environment, 2019, 649, 1189-1197.	8.0	64
16	ldentification of Hexahydro-1,3,5-trinitro-1,3,5-triazine-Degrading Microorganisms via ¹⁵ N-Stable Isotope Probing. Environmental Science & Technology, 2009, 43, 2505-2511.	10.0	63
17	A 17β-Estradiol-utilizing Bacterium, <i>Sphingomonas</i> Strain KC8: Part I - Characterization and Abundance in Wastewater Treatment Plants. Environmental Science & Technology, 2010, 44, 4943-4950.	10.0	62
18	Effect of Nitrogen Source on Growth and Trichloroethylene Degradation by Methane-Oxidizing Bacteria. Applied and Environmental Microbiology, 1998, 64, 3451-3457.	3.1	58

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19	A Quantitative Assay for Linking Microbial Community Function and Structure of a Naphthalene-Degrading Microbial Consortium. Environmental Science & Technology, 2005, 39, 9611-9619.	10.0	55
20	Effects of growth substrate on triclosan biodegradation potential of oxygenase-expressing bacteria. Chemosphere, 2013, 93, 1904-1911.	8.2	50
21	Cultivation of lipid-producing bacteria with lignocellulosic biomass: Effects of inhibitory compounds of lignocellulosic hydrolysates. Bioresource Technology, 2014, 161, 162-170.	9.6	50
22	Bioretention for stormwater quality improvement in Texas: Removal effectiveness of Escherichia coli. Separation and Purification Technology, 2012, 84, 120-124.	7.9	45
23	Integration of CuO thin films and dye-sensitized solar cells for thermoelectric generators. Current Applied Physics, 2011, 11, S19-S22.	2.4	44
24	Trichloroethylene degradation by methane-oxidizing cultures grown with various nitrogen sources. Water Environment Research, 1996, 68, 76-82.	2.7	43
25	Identification of triclosan-degrading bacteria in a triclosan enrichment culture using stable isotope probing. Biodegradation, 2014, 25, 55-65.	3.0	40
26	Supported gold clusters as effective and reusable photocatalysts for the abatement of endocrine-disrupting chemicals under visible light. Journal of Catalysis, 2017, 354, 1-12.	6.2	37
27	Metabolites Involved in Aerobic Degradation of the A and B Rings of Estrogen. Applied and Environmental Microbiology, 2019, 85, .	3.1	37
28	Recent advances in production and extraction of bacterial lipids for biofuel production. Science of the Total Environment, 2020, 734, 139420.	8.0	34
29	Evaluation of Toxic Effects of Aeration and Trichloroethylene Oxidation on Methanotrophic Bacteria Grown with Different Nitrogen Sources. Applied and Environmental Microbiology, 1999, 65, 766-772.	3.1	33
30	Comparing Bioretention Designs With and Without an Internal Water Storage Layer for Treating Highway Runoff. Water Environment Research, 2014, 86, 387-397.	2.7	32
31	Application of 13C-stable isotope probing to identify RDX-degrading microorganisms in groundwater. Environmental Pollution, 2013, 178, 350-360.	7.5	31
32	Biotransformation of 6:2 polyfluoroalkyl phosphates (6:2 PAPs): Effects of degradative bacteria and co-substrates. Journal of Hazardous Materials, 2016, 320, 479-486.	12.4	31
33	Accumulation and phytotoxicity of perfluorooctanoic acid and 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate in Arabidopsis thaliana and Nicotiana benthamiana. Environmental Pollution, 2020, 259, 113817.	7.5	28
34	Effective one-step saccharification of lignocellulosic biomass using magnetite-biocatalysts containing saccharifying enzymes. Science of the Total Environment, 2019, 647, 806-813.	8.0	27
35	Desulfonation and defluorination of 6:2 fluorotelomer sulfonic acid (6:2 FTSA) by Rhodococcus jostii RHA1: Carbon and sulfur sources, enzymes, and pathways. Journal of Hazardous Materials, 2022, 423, 127052.	12.4	27
36	Phage-based extraction of polyhydroxybutyrate (PHB) produced from synthetic crude glycerol. Science of the Total Environment, 2016, 557-558, 317-321.	8.0	25

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37	Engineering artificial communities for enhanced FTOH degradation. Science of the Total Environment, 2016, 572, 935-942.	8.0	24
38	Effects of solids retention time on the performance of bioreactors bioaugmented with a 17β-estradiol-utilizing bacterium, Sphingomonas strain KC8. Chemosphere, 2011, 84, 227-233.	8.2	21
39	Removal of triclosan in nitrifying activated sludge: Effects of ammonia amendment and bioaugmentation. Chemosphere, 2015, 125, 9-15.	8.2	21
40	Photodegradation of fluorotelomer carboxylic 5:3 acid and perfluorooctanoic acid using zinc oxide. Environmental Pollution, 2018, 243, 637-644.	7.5	20
41	Application of 13C and 15N stable isotope probing to characterize RDX degrading microbial communities under different electron-accepting conditions. Journal of Hazardous Materials, 2015, 297, 42-51.	12.4	19
42	Development and Application of Real-Time PCR Assays for Quantifying Total and Aerolysin Gene-Containing <i>Aeromonas</i> in Source, Intermediate, and Finished Drinking Water. Environmental Science & Technology, 2008, 42, 1191-1200.	10.0	18
43	Cometabolic biodegradation of 1,2,3-trichloropropane by propane-oxidizing bacteria. Chemosphere, 2017, 168, 1494-1497.	8.2	18
44	Characterization of a Novel Tectivirus Phage Toil and Its Potential as an Agent for Biolipid Extraction. Scientific Reports, 2018, 8, 1062.	3.3	18
45	A Novel Recirculating Aquaculture System for Sustainable Aquaculture: Enabling Wastewater Reuse and Conversion of Waste-to-Immune-Stimulating Fish Feed. ACS Sustainable Chemistry and Engineering, 2020, 8, 18094-18105.	6.7	17
46	Genome Sequence of the 17β-Estradiol-Utilizing Bacterium Sphingomonas Strain KC8. Journal of Bacteriology, 2011, 193, 4266-4267.	2.2	15
47	Evaluation of methanotrophic bacterial communities capable of biodegrading trichloroethene (TCE) in acidic aquifers. Biodegradation, 2019, 30, 173-190.	3.0	14
48	From Organic Wastes to Bioplastics: Feasibility of Nonsterile Poly(3-hydroxybutyrate) Production by <i>Zobellella denitrificans</i> ZD1. ACS Omega, 2020, 5, 24158-24168.	3.5	14
49	Treatment of Chlorinated Solvents by Nitrogen-Fixing and Nitrate-Supplied Methane Oxidizers in Columns Packed with Unsaturated Porous Media. Environmental Science & Technology, 2000, 34, 1784-1793.	10.0	13
50	Identification of groundwater microorganisms capable of assimilating RDX-derived nitrogen during in-situ bioremediation. Science of the Total Environment, 2016, 569-570, 1098-1106.	8.0	13
51	Fate and Transformation of 6:2 Fluorotelomer Sulfonic Acid Affected by Plant, Nutrient, Bioaugmentation, and Soil Microbiome Interactions. Environmental Science & Technology, 2022, 56, 10721-10731.	10.0	12
52	Assessing Performance of Bioretention Boxes in Hot and Semiarid Regions. Transportation Research Record, 2011, 2262, 155-163.	1.9	11
53	Fecal indicators, pathogens, antibiotic resistance genes, and ecotoxicity in Galveston Bay after Hurricane Harvey. Journal of Hazardous Materials, 2021, 411, 124953.	12.4	10
54	Application of a Schottky barrier to dye-sensitized solar cells (DSSCs) with multilayer thin films of photoelectrodes. Journal of Alloys and Compounds, 2011, 509, S486-S489.	5.5	9

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55	Fabrication of Bacteria Environment Cubes with Dry Lift-Off Fabrication Process for Enhanced Nitrification. PLoS ONE, 2016, 11, e0165839.	2.5	9
56	Analysis of Zobellella denitrificans ZD1 draft genome: Genes and gene clusters responsible for high polyhydroxybutyrate (PHB) production from glycerol under saline conditions and its CRISPR-Cas system. PLoS ONE, 2019, 14, e0222143.	2.5	9
57	Preparation and Characterization of Anthocyanin Dye and Counter Electrode Thin Film with Carbon Nanotubes for Dye-Sensitized Solar Cells. Materials Transactions, 2011, 52, 1977-1982.	1.2	8
58	Properties of an optical multipass surface plasmon resonance technique. Applied Physics Letters, 2006, 89, 071101.	3.3	5
59	Molecular quantification of virulence gene-containing Aeromonas in water samples collected from different drinking water treatment processes. Environmental Monitoring and Assessment, 2011, 176, 225-238.	2.7	5
60	Draft Genome Sequence of Zobellella denitrificans ZD1 (JCM 13380), a Salt-Tolerant Denitrifying Bacterium Capable of Producing Poly(3-Hydroxybutyrate). Genome Announcements, 2017, 5, .	0.8	4
61	Abundances of triclosan-degrading microorganisms in activated sludge systems. Environmental Engineering Research, 2015, 20, 105-109.	2.5	4
62	Dual-function oleaginous biocatalysts for non-sterile cultivation and solvent-free biolipid bioextraction to reduce biolipid-based biofuel production costs. Science of the Total Environment, 2021, 758, 143969.	8.0	2