

Kung-Hui Chu

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

2,892
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159358

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168136

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docs citations

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times ranked

3333
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Biodegradation potential of wastewater micropollutants by ammonia-oxidizing bacteria. <i>Chemosphere</i> , 2009, 77, 1084-1089. | 4.2 | 232 |
| 2 | ^{17}O -Estradiol-Degrading Bacteria Isolated from Activated Sludge. <i>Environmental Science & Technology</i> , 2007, 41, 486-492. | 4.6 | 213 |
| 3 | Variable carbon isotope fractionation expressed by aerobic CH_4 -oxidizing bacteria. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1739-1752. | 1.6 | 175 |
| 4 | Microbial degradation of steroidal estrogens. <i>Chemosphere</i> , 2013, 91, 1225-1235. | 4.2 | 162 |
| 5 | Biodegradation of triclosan by a wastewater microorganism. <i>Water Research</i> , 2012, 46, 4226-4234. | 5.3 | 139 |
| 6 | Occurrence of pharmaceuticals and personal care products along the West Prong Little Pigeon River in east Tennessee, USA. <i>Chemosphere</i> , 2009, 75, 1281-1286. | 4.2 | 121 |
| 7 | Biochemical Mechanisms and Catabolic Enzymes Involved in Bacterial Estrogen Degradation Pathways. <i>Cell Chemical Biology</i> , 2017, 24, 712-724.e7. | 2.5 | 96 |
| 8 | MTBE and Other Oxygenates: Environmental Sources, Analysis, Occurrence, and Treatment. <i>Environmental Engineering Science</i> , 2003, 20, 433-447. | 0.8 | 86 |
| 9 | Biodefluorination and biotransformation of fluorotelomer alcohols by two alkane-degrading <i>Pseudomonas</i> strains. <i>Biotechnology and Bioengineering</i> , 2012, 109, 3041-3048. | 1.7 | 75 |
| 10 | Biodegradation of 1,4-dioxane: Effects of enzyme inducers and trichloroethylene. <i>Science of the Total Environment</i> , 2015, 520, 154-159. | 3.9 | 73 |
| 11 | 6:2 Fluorotelomer alcohol (6:2 FTOH) biodegradation by multiple microbial species under different physiological conditions. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 1831-1840. | 1.7 | 71 |
| 12 | Quantitative Molecular Assay for Fingerprinting Microbial Communities of Wastewater and Estrogen-Degrading Consortia. <i>Applied and Environmental Microbiology</i> , 2005, 71, 1433-1444. | 1.4 | 69 |
| 13 | Stable Carbon Isotope Fractionation during Aerobic Biodegradation of Chlorinated Ethenes. <i>Environmental Science & Technology</i> , 2004, 38, 3126-3130. | 4.6 | 65 |
| 14 | Reusable Functionalized Hydrogel Sorbents for Removing Long- and Short-Chain Perfluoroalkyl Acids (PFAAs) and GenX from Aqueous Solution. <i>ACS Omega</i> , 2018, 3, 17447-17455. | 1.6 | 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). <i>Science of the Total Environment</i> , 2019, 649, 1189-1197. | 3.9 | 64 |
| 16 | Identification of Hexahydro-1,3,5-trinitro-1,3,5-triazine-Degrading Microorganisms via ^{15}N -Stable Isotope Probing. <i>Environmental Science & Technology</i> , 2009, 43, 2505-2511. | 4.6 | 63 |
| 17 | A ^{17}O -Estradiol-utilizing Bacterium, <i>Sphingomonas</i> Strain KC8: Part I - Characterization and Abundance in Wastewater Treatment Plants. <i>Environmental Science & Technology</i> , 2010, 44, 4943-4950. | 4.6 | 62 |
| 18 | Effect of Nitrogen Source on Growth and Trichloroethylene Degradation by Methane-Oxidizing Bacteria. <i>Applied and Environmental Microbiology</i> , 1998, 64, 3451-3457. | 1.4 | 58 |

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|----|---|-----|-----------|
| 19 | A Quantitative Assay for Linking Microbial Community Function and Structure of a Naphthalene-Degrading Microbial Consortium. <i>Environmental Science & Technology</i> , 2005, 39, 9611-9619. | 4.6 | 55 |
| 20 | Effects of growth substrate on triclosan biodegradation potential of oxygenase-expressing bacteria. <i>Chemosphere</i> , 2013, 93, 1904-1911. | 4.2 | 50 |
| 21 | Cultivation of lipid-producing bacteria with lignocellulosic biomass: Effects of inhibitory compounds of lignocellulosic hydrolysates. <i>Bioresource Technology</i> , 2014, 161, 162-170. | 4.8 | 50 |
| 22 | Bioretention for stormwater quality improvement in Texas: Removal effectiveness of <i>Escherichia coli</i> . <i>Separation and Purification Technology</i> , 2012, 84, 120-124. | 3.9 | 45 |
| 23 | Integration of CuO thin films and dye-sensitized solar cells for thermoelectric generators. <i>Current Applied Physics</i> , 2011, 11, S19-S22. | 1.1 | 44 |
| 24 | Trichloroethylene degradation by methane-oxidizing cultures grown with various nitrogen sources. <i>Water Environment Research</i> , 1996, 68, 76-82. | 1.3 | 43 |
| 25 | Identification of triclosan-degrading bacteria in a triclosan enrichment culture using stable isotope probing. <i>Biodegradation</i> , 2014, 25, 55-65. | 1.5 | 40 |
| 26 | Supported gold clusters as effective and reusable photocatalysts for the abatement of endocrine-disrupting chemicals under visible light. <i>Journal of Catalysis</i> , 2017, 354, 1-12. | 3.1 | 37 |
| 27 | Metabolites Involved in Aerobic Degradation of the A and B Rings of Estrogen. <i>Applied and Environmental Microbiology</i> , 2019, 85, . | 1.4 | 37 |
| 28 | Recent advances in production and extraction of bacterial lipids for biofuel production. <i>Science of the Total Environment</i> , 2020, 734, 139420. | 3.9 | 34 |
| 29 | Evaluation of Toxic Effects of Aeration and Trichloroethylene Oxidation on Methanotrophic Bacteria Grown with Different Nitrogen Sources. <i>Applied and Environmental Microbiology</i> , 1999, 65, 766-772. | 1.4 | 33 |
| 30 | Comparing Bioretention Designs With and Without an Internal Water Storage Layer for Treating Highway Runoff. <i>Water Environment Research</i> , 2014, 86, 387-397. | 1.3 | 32 |
| 31 | Application of ¹³ C-stable isotope probing to identify RDX-degrading microorganisms in groundwater. <i>Environmental Pollution</i> , 2013, 178, 350-360. | 3.7 | 31 |
| 32 | Biotransformation of 6:2 polyfluoroalkyl phosphates (6:2 PAPs): Effects of degradative bacteria and co-substrates. <i>Journal of Hazardous Materials</i> , 2016, 320, 479-486. | 6.5 | 31 |
| 33 | Accumulation and phytotoxicity of perfluorooctanoic acid and 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate in <i>Arabidopsis thaliana</i> and <i>Nicotiana benthamiana</i> . <i>Environmental Pollution</i> , 2020, 259, 113817. | 3.7 | 28 |
| 34 | Effective one-step saccharification of lignocellulosic biomass using magnetite-biocatalysts containing saccharifying enzymes. <i>Science of the Total Environment</i> , 2019, 647, 806-813. | 3.9 | 27 |
| 35 | Desulfonation and defluorination of 6:2 fluorotelomer sulfonic acid (6:2 FTSA) by <i>Rhodococcus jostii</i> RHA1: Carbon and sulfur sources, enzymes, and pathways. <i>Journal of Hazardous Materials</i> , 2022, 423, 127052. | 6.5 | 27 |
| 36 | Phage-based extraction of polyhydroxybutyrate (PHB) produced from synthetic crude glycerol. <i>Science of the Total Environment</i> , 2016, 557-558, 317-321. | 3.9 | 25 |

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|----|---|-----|-----------|
| 37 | Engineering artificial communities for enhanced FTOH degradation. <i>Science of the Total Environment</i> , 2016, 572, 935-942. | 3.9 | 24 |
| 38 | Effects of solids retention time on the performance of bioreactors bioaugmented with a 17 β -estradiol-utilizing bacterium, <i>Sphingomonas</i> strain KC8. <i>Chemosphere</i> , 2011, 84, 227-233. | 4.2 | 21 |
| 39 | Removal of triclosan in nitrifying activated sludge: Effects of ammonia amendment and bioaugmentation. <i>Chemosphere</i> , 2015, 125, 9-15. | 4.2 | 21 |
| 40 | Photodegradation of fluorotelomer carboxylic 5:3 acid and perfluorooctanoic acid using zinc oxide. <i>Environmental Pollution</i> , 2018, 243, 637-644. | 3.7 | 20 |
| 41 | Application of 13C and 15N stable isotope probing to characterize RDX degrading microbial communities under different electron-accepting conditions. <i>Journal of Hazardous Materials</i> , 2015, 297, 42-51. | 6.5 | 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. <i>Environmental Science & Technology</i> , 2008, 42, 1191-1200. | 4.6 | 18 |
| 43 | Cometabolic biodegradation of 1,2,3-trichloropropane by propane-oxidizing bacteria. <i>Chemosphere</i> , 2017, 168, 1494-1497. | 4.2 | 18 |
| 44 | Characterization of a Novel Tectiviruses Phage Toil and Its Potential as an Agent for Biolipid Extraction. <i>Scientific Reports</i> , 2018, 8, 1062. | 1.6 | 18 |
| 45 | A Novel Recirculating Aquaculture System for Sustainable Aquaculture: Enabling Wastewater Reuse and Conversion of Waste-to-Immune-Stimulating Fish Feed. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 18094-18105. | 3.2 | 17 |
| 46 | Genome Sequence of the 17 β -Estradiol-Utilizing Bacterium <i>Sphingomonas</i> Strain KC8. <i>Journal of Bacteriology</i> , 2011, 193, 4266-4267. | 1.0 | 15 |
| 47 | Evaluation of methanotrophic bacterial communities capable of biodegrading trichloroethene (TCE) in acidic aquifers. <i>Biodegradation</i> , 2019, 30, 173-190. | 1.5 | 14 |
| 48 | From Organic Wastes to Bioplastics: Feasibility of Nonsterile Poly(3-hydroxybutyrate) Production by <i>Zobellella denitrificans</i> ZD1. <i>ACS Omega</i> , 2020, 5, 24158-24168. | 1.6 | 14 |
| 49 | Treatment of Chlorinated Solvents by Nitrogen-Fixing and Nitrate-Supplied Methane Oxidizers in Columns Packed with Unsaturated Porous Media. <i>Environmental Science & Technology</i> , 2000, 34, 1784-1793. | 4.6 | 13 |
| 50 | Identification of groundwater microorganisms capable of assimilating RDX-derived nitrogen during in-situ bioremediation. <i>Science of the Total Environment</i> , 2016, 569-570, 1098-1106. | 3.9 | 13 |
| 51 | Fate and Transformation of 6:2 Fluorotelomer Sulfonic Acid Affected by Plant, Nutrient, Bioaugmentation, and Soil Microbiome Interactions. <i>Environmental Science & Technology</i> , 2022, 56, 10721-10731. | 4.6 | 12 |
| 52 | Assessing Performance of Bioretention Boxes in Hot and Semiarid Regions. <i>Transportation Research Record</i> , 2011, 2262, 155-163. | 1.0 | 11 |
| 53 | Fecal indicators, pathogens, antibiotic resistance genes, and ecotoxicity in Galveston Bay after Hurricane Harvey. <i>Journal of Hazardous Materials</i> , 2021, 411, 124953. | 6.5 | 10 |
| 54 | Application of a Schottky barrier to dye-sensitized solar cells (DSSCs) with multilayer thin films of photoelectrodes. <i>Journal of Alloys and Compounds</i> , 2011, 509, S486-S489. | 2.8 | 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. | 1.1 | 9 |
| 56 | Analysis of <i>Zobellella denitrificans</i> 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. | 1.1 | 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. | 0.4 | 8 |
| 58 | Properties of an optical multipass surface plasmon resonance technique. Applied Physics Letters, 2006, 89, 071101. | 1.5 | 5 |
| 59 | Molecular quantification of virulence gene-containing <i>Aeromonas</i> in water samples collected from different drinking water treatment processes. Environmental Monitoring and Assessment, 2011, 176, 225-238. | 1.3 | 5 |
| 60 | Draft Genome Sequence of <i>Zobellella denitrificans</i> 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. | 1.5 | 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. | 3.9 | 2 |