Kung-Hui Chu

List of Publications by Year in Descending Order

61 papers	2,240 citations	27 h-index	46 g-index
63 ext. papers	2,550 ext. citations	7.3 avg, IF	5.23 L-index

#	Paper	IF	Citations
61	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	12.8	2
60	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	10.2	1
59	Fecal indicators, pathogens, antibiotic resistance genes, and ecotoxicity in Galveston Bay after Hurricane Harvey. *Journal of Hazardous Materials*, **2021**, 411, 124953	12.8	4
58	Recent advances in production and extraction of bacterial lipids for biofuel production. *Science of the Total Environment*, **2020**, 734, 139420	10.2	23
57	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	9.3	10
56	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	8.3	6
55	From Organic Wastes to Bioplastics: Feasibility of Nonsterile Poly(3-hydroxybutyrate) Production by ZD1. *ACS Omega*, **2020**, 5, 24158-24168	3.9	5
54	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	3.7	4
53	Evaluation of methanotrophic bacterial communities capable of biodegrading trichloroethene (TCE) in acidic aquifers. *Biodegradation*, **2019**, 30, 173-190	4.1	9
52	Effective one-step saccharification of lignocellulosic biomass using magnetite-biocatalysts containing saccharifying enzymes. *Science of the Total Environment*, **2019**, 647, 806-813	10.2	23
51	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	10.2	44
50	Metabolites Involved in Aerobic Degradation of the A and B Rings of Estrogen. *Applied and Environmental Microbiology*, **2019**, 85,	4.8	25
49	Characterization of a Novel Tectivirus Phage Toil and Its Potential as an Agent for Biolipid Extraction. *Scientific Reports*, **2018**, 8, 1062	4.9	15
48	Reusable Functionalized Hydrogel Sorbents for Removing Long- and Short-Chain Perfluoroalkyl Acids (PFAAs) and GenX from Aqueous Solution. *ACS Omega*, **2018**, 3, 17447-17455	3.9	30
47	Photodegradation of fluorotelomer carboxylic 5:3 acid and perfluorooctanoic acid using zinc oxide. *Environmental Pollution*, **2018**, 243, 637-644	9.3	12
46	Biochemical Mechanisms and Catabolic Enzymes Involved in Bacterial Estrogen Degradation Pathways. *Cell Chemical Biology*, **2017**, 24, 712-724.e7	8.2	55
45	Cometabolic biodegradation of 1,2,3-trichloropropane by propane-oxidizing bacteria. *Chemosphere*, **2017**, 168, 1494-1497	8.4	10

44	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	7.3	30
43	Draft Genome Sequence of ZD1 (JCM 13380), a Salt-Tolerant Denitrifying Bacterium Capable of Producing Poly(3-Hydroxybutyrate). *Genome Announcements*, **2017**, 5,		3
42	Fabrication of Bacteria Environment Cubes with Dry Lift-Off Fabrication Process for Enhanced Nitrification. *PLoS ONE*, **2016**, 11, e0165839	3.7	9
41	Identification of groundwater microorganisms capable of assimilating RDX-derived nitrogen during in-situ bioremediation. *Science of the Total Environment*, **2016**, 569-570, 1098-1106	10.2	10
40	Phage-based extraction of polyhydroxybutyrate (PHB) produced from synthetic crude glycerol. *Science of the Total Environment*, **2016**, 557-558, 317-21	10.2	21
39	Biotransformation of 6:2 polyfluoroalkyl phosphates (6:2 PAPs): Effects of degradative bacteria and co-substrates. *Journal of Hazardous Materials*, **2016**, 320, 479-486	12.8	16
38	Engineering artificial communities for enhanced FTOH degradation. *Science of the Total Environment*, **2016**, 572, 935-942	10.2	15
37	Biodegradation of 1,4-dioxane: effects of enzyme inducers and trichloroethylene. *Science of the Total Environment*, **2015**, 520, 154-9	10.2	51
36	Application of (13)C and (15)N stable isotope probing to characterize RDX degrading microbial communities under different electron-accepting conditions. *Journal of Hazardous Materials*, **2015**, 297, 42-51	12.8	15
35	Removal of triclosan in nitrifying activated sludge: effects of ammonia amendment and bioaugmentation. *Chemosphere*, **2015**, 125, 9-15	8.4	15
34	Abundances of triclosan-degrading microorganisms in activated sludge systems. *Environmental Engineering Research*, **2015**, 20, 105-109	3.6	3
33	Comparing bioretention designs with and without an internal water storage layer for treating highway runoff. *Water Environment Research*, **2014**, 86, 387-97	2.8	25
32	6:2 Fluorotelomer alcohol (6:2 FTOH) biodegradation by multiple microbial species under different physiological conditions. *Applied Microbiology and Biotechnology*, **2014**, 98, 1831-40	5.7	40
31	Identification of triclosan-degrading bacteria in a triclosan enrichment culture using stable isotope probing. *Biodegradation*, **2014**, 25, 55-65	4.1	36
30	Cultivation of lipid-producing bacteria with lignocellulosic biomass: effects of inhibitory compounds of lignocellulosic hydrolysates. *Bioresource Technology*, **2014**, 161, 162-70	11	46
29	Microbial degradation of steroidal estrogens. *Chemosphere*, **2013**, 91, 1225-35	8.4	125
28	Effects of growth substrate on triclosan biodegradation potential of oxygenase-expressing bacteria. *Chemosphere*, **2013**, 93, 1904-11	8.4	42
27	Application of (13)C-stable isotope probing to identify RDX-degrading microorganisms in groundwater. *Environmental Pollution*, **2013**, 178, 350-60	9.3	28

26	Bioretention for stormwater quality improvement in Texas: Removal effectiveness of Escherichia coli. *Separation and Purification Technology*, **2012**, 84, 120-124	8.3	36
25	Biodegradation of triclosan by a wastewater microorganism. *Water Research*, **2012**, 46, 4226-34	12.5	109
24	Biodefluorination and biotransformation of fluorotelomer alcohols by two alkane-degrading Pseudomonas strains. *Biotechnology and Bioengineering*, **2012**, 109, 3041-8	4.9	54
23	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	5.7	8
22	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	1.3	5
21	Integration of CuO thin films and dye-sensitized solar cells for thermoelectric generators. *Current Applied Physics*, **2011**, 11, S19-S22	2.6	37
20	Effects of solids retention time on the performance of bioreactors bioaugmented with a 17β-estradiol-utilizing bacterium, Sphingomonas strain KC8. *Chemosphere*, **2011**, 84, 227-33	8.4	18
19	Molecular quantification of virulence gene-containing Aeromonas in water samples collected from different drinking water treatment processes. *Environmental Monitoring and Assessment*, **2011**, 176, 225-38	3.1	3
18	Genome sequence of the 17β-estradiol-utilizing bacterium Sphingomonas strain KC8. *Journal of Bacteriology*, **2011**, 193, 4266-7	3.5	14
17	Assessing Performance of Bioretention Boxes in Hot and Semiarid Regions: Highway Application Pilot Study. *Transportation Research Record*, **2011**, 2262, 155-163	1.7	9
16	A 17beta-estradiol-utilizing bacterium, Sphingomonas strain KC8: part I - characterization and abundance in wastewater treatment plants. *Environmental Science & Technology*, **2010**, 44, 4943-50	10.3	56
15	Identification of hexahydro-1,3,5-trinitro-1,3,5-triazine-degrading microorganisms via 15N-stable isotope probing. *Environmental Science & Technology*, **2009**, 43, 2505-11	10.3	61
14	Occurrence of pharmaceuticals and personal care products along the West Prong Little Pigeon River in east Tennessee, USA. *Chemosphere*, **2009**, 75, 1281-6	8.4	104
13	Biodegradation potential of wastewater micropollutants by ammonia-oxidizing bacteria. *Chemosphere*, **2009**, 77, 1084-9	8.4	191
12	Development and application of real-time PCR assays for quantifying total and aerolysin gene-containing aeromonas in source, intermediate, and finished drinking water. *Environmental Science & Technology*, **2008**, 42, 1191-200	10.3	15
11	17beta-estradiol-degrading bacteria isolated from activated sludge. *Environmental Science & Technology*, **2007**, 41, 486-92	10.3	179
10	Properties of an optical multipass surface plasmon resonance technique. *Applied Physics Letters*, **2006**, 89, 071101	3.4	4
9	Variable carbon isotope fractionation expressed by aerobic CH4-oxidizing bacteria. *Geochimica Et Cosmochimica Acta*, **2006**, 70, 1739-1752	5.5	154

8	A quantitative assay for linking microbial community function and structure of a naphthalene-degrading microbial consortium. *Environmental Science & Technology*, **2005**, 39, 9611-9	10.3	51
7	Quantitative molecular assay for fingerprinting microbial communities of wastewater and estrogen-degrading consortia. *Applied and Environmental Microbiology*, **2005**, 71, 1433-44	4.8	62
6	Stable carbon isotope fractionation during aerobic biodegradation of chlorinated ethenes. *Environmental Science & Technology*, **2004**, 38, 3126-30	10.3	61
5	MTBE and Other Oxygenates: Environmental Sources, Analysis, Occurrence, and Treatment. *Environmental Engineering Science*, **2003**, 20, 433-447	2	82
4	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	10.3	11
3	Evaluation of toxic effects of aeration and trichloroethylene oxidation on methanotrophic bacteria grown with different nitrogen sources. *Applied and Environmental Microbiology*, **1999**, 65, 766-72	4.8	26
2	Effect of nitrogen source on growth and trichloroethylene degradation by methane-oxidizing bacteria. *Applied and Environmental Microbiology*, **1998**, 64, 3451-7	4.8	46
1	Trichloroethylene degradation by methane-oxidizing cultures grown with various nitrogen sources. *Water Environment Research*, **1996**, 68, 76-82	2.8	34