

# Kung-Hui Chu

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Biodegradation potential of wastewater micropollutants by ammonia-oxidizing bacteria. <i>Chemosphere</i> , <b>2009</b> , 77, 1084-9	8.4	191
60	17beta-estradiol-degrading bacteria isolated from activated sludge. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 486-92	10.3	179
59	Variable carbon isotope fractionation expressed by aerobic CH <sub>4</sub> -oxidizing bacteria. <i>Geochimica Et Cosmochimica Acta</i> , <b>2006</b> , 70, 1739-1752	5.5	154
58	Microbial degradation of steroidal estrogens. <i>Chemosphere</i> , <b>2013</b> , 91, 1225-35	8.4	125
57	Biodegradation of triclosan by a wastewater microorganism. <i>Water Research</i> , <b>2012</b> , 46, 4226-34	12.5	109
56	Occurrence of pharmaceuticals and personal care products along the West Prong Little Pigeon River in east Tennessee, USA. <i>Chemosphere</i> , <b>2009</b> , 75, 1281-6	8.4	104
55	MTBE and Other Oxygenates: Environmental Sources, Analysis, Occurrence, and Treatment. <i>Environmental Engineering Science</i> , <b>2003</b> , 20, 433-447	2	82
54	Quantitative molecular assay for fingerprinting microbial communities of wastewater and estrogen-degrading consortia. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 1433-44	4.8	62
53	Identification of hexahydro-1,3,5-trinitro-1,3,5-triazine-degrading microorganisms via <sup>15</sup> N-stable isotope probing. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 2505-11	10.3	61
52	Stable carbon isotope fractionation during aerobic biodegradation of chlorinated ethenes. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 3126-30	10.3	61
51	A 17beta-estradiol-utilizing bacterium, <i>Sphingomonas</i> strain KC8: part I - characterization and abundance in wastewater treatment plants. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 4943-50	10.3	56
50	Biochemical Mechanisms and Catabolic Enzymes Involved in Bacterial Estrogen Degradation Pathways. <i>Cell Chemical Biology</i> , <b>2017</b> , 24, 712-724.e7	8.2	55
49	Biodefluorination and biotransformation of fluorotelomer alcohols by two alkane-degrading <i>Pseudomonas</i> strains. <i>Biotechnology and Bioengineering</i> , <b>2012</b> , 109, 3041-8	4.9	54
48	Biodegradation of 1,4-dioxane: effects of enzyme inducers and trichloroethylene. <i>Science of the Total Environment</i> , <b>2015</b> , 520, 154-9	10.2	51
47	A quantitative assay for linking microbial community function and structure of a naphthalene-degrading microbial consortium. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 9611-9	10.3	51
46	Cultivation of lipid-producing bacteria with lignocellulosic biomass: effects of inhibitory compounds of lignocellulosic hydrolysates. <i>Bioresource Technology</i> , <b>2014</b> , 161, 162-70	11	46
45	Effect of nitrogen source on growth and trichloroethylene degradation by methane-oxidizing bacteria. <i>Applied and Environmental Microbiology</i> , <b>1998</b> , 64, 3451-7	4.8	46

44	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> , <b>2019</b> , 649, 1189-1197	10.2	44
43	Effects of growth substrate on triclosan biodegradation potential of oxygenase-expressing bacteria. <i>Chemosphere</i> , <b>2013</b> , 93, 1904-11	8.4	42
42	6:2 Fluorotelomer alcohol (6:2 FTOH) biodegradation by multiple microbial species under different physiological conditions. <i>Applied Microbiology and Biotechnology</i> , <b>2014</b> , 98, 1831-40	5.7	40
41	Integration of CuO thin films and dye-sensitized solar cells for thermoelectric generators. <i>Current Applied Physics</i> , <b>2011</b> , 11, S19-S22	2.6	37
40	Bioretention for stormwater quality improvement in Texas: Removal effectiveness of Escherichia coli. <i>Separation and Purification Technology</i> , <b>2012</b> , 84, 120-124	8.3	36
39	Identification of triclosan-degrading bacteria in a triclosan enrichment culture using stable isotope probing. <i>Biodegradation</i> , <b>2014</b> , 25, 55-65	4.1	36
38	Trichloroethylene degradation by methane-oxidizing cultures grown with various nitrogen sources. <i>Water Environment Research</i> , <b>1996</b> , 68, 76-82	2.8	34
37	Supported gold clusters as effective and reusable photocatalysts for the abatement of endocrine-disrupting chemicals under visible light. <i>Journal of Catalysis</i> , <b>2017</b> , 354, 1-12	7.3	30
36	Reusable Functionalized Hydrogel Sorbents for Removing Long- and Short-Chain Perfluoroalkyl Acids (PFAAs) and GenX from Aqueous Solution. <i>ACS Omega</i> , <b>2018</b> , 3, 17447-17455	3.9	30
35	Application of (13)C-stable isotope probing to identify RDX-degrading microorganisms in groundwater. <i>Environmental Pollution</i> , <b>2013</b> , 178, 350-60	9.3	28
34	Evaluation of toxic effects of aeration and trichloroethylene oxidation on methanotrophic bacteria grown with different nitrogen sources. <i>Applied and Environmental Microbiology</i> , <b>1999</b> , 65, 766-72	4.8	26
33	Comparing bioretention designs with and without an internal water storage layer for treating highway runoff. <i>Water Environment Research</i> , <b>2014</b> , 86, 387-97	2.8	25
32	Metabolites Involved in Aerobic Degradation of the A and B Rings of Estrogen. <i>Applied and Environmental Microbiology</i> , <b>2019</b> , 85,	4.8	25
31	Effective one-step saccharification of lignocellulosic biomass using magnetite-biocatalysts containing saccharifying enzymes. <i>Science of the Total Environment</i> , <b>2019</b> , 647, 806-813	10.2	23
30	Recent advances in production and extraction of bacterial lipids for biofuel production. <i>Science of the Total Environment</i> , <b>2020</b> , 734, 139420	10.2	23
29	Phage-based extraction of polyhydroxybutyrate (PHB) produced from synthetic crude glycerol. <i>Science of the Total Environment</i> , <b>2016</b> , 557-558, 317-21	10.2	21
28	Effects of solids retention time on the performance of bioreactors bioaugmented with a 17 $\beta$ -estradiol-utilizing bacterium, Sphingomonas strain KC8. <i>Chemosphere</i> , <b>2011</b> , 84, 227-33	8.4	18
27	Biotransformation of 6:2 polyfluoroalkyl phosphates (6:2 PAPs): Effects of degradative bacteria and co-substrates. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 320, 479-486	12.8	16

26	Application of (13)C and (15)N stable isotope probing to characterize RDX degrading microbial communities under different electron-accepting conditions. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 297, 42-51	12.8	15
25	Characterization of a Novel Tectivirus Phage Toil and Its Potential as an Agent for Biolipid Extraction. <i>Scientific Reports</i> , <b>2018</b> , 8, 1062	4.9	15
24	Removal of triclosan in nitrifying activated sludge: effects of ammonia amendment and bioaugmentation. <i>Chemosphere</i> , <b>2015</b> , 125, 9-15	8.4	15
23	Development and application of real-time PCR assays for quantifying total and aerolysin gene-containing aeromonas in source, intermediate, and finished drinking water. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 1191-200	10.3	15
22	Engineering artificial communities for enhanced FTOH degradation. <i>Science of the Total Environment</i> , <b>2016</b> , 572, 935-942	10.2	15
21	Genome sequence of the 17 $\beta$ -estradiol-utilizing bacterium <i>Sphingomonas</i> strain KC8. <i>Journal of Bacteriology</i> , <b>2011</b> , 193, 4266-7	3.5	14
20	Photodegradation of fluorotelomer carboxylic 5:3 acid and perfluorooctanoic acid using zinc oxide. <i>Environmental Pollution</i> , <b>2018</b> , 243, 637-644	9.3	12
19	Treatment of Chlorinated Solvents by Nitrogen-Fixing and Nitrate-Supplied Methane Oxidizers in Columns Packed with Unsaturated Porous Media. <i>Environmental Science &amp; Technology</i> , <b>2000</b> , 34, 1784-1793	10.3	11
18	Cometabolic biodegradation of 1,2,3-trichloropropane by propane-oxidizing bacteria. <i>Chemosphere</i> , <b>2017</b> , 168, 1494-1497	8.4	10
17	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> , <b>2020</b> , 259, 113817	9.3	10
16	Identification of groundwater microorganisms capable of assimilating RDX-derived nitrogen during in-situ bioremediation. <i>Science of the Total Environment</i> , <b>2016</b> , 569-570, 1098-1106	10.2	10
15	Evaluation of methanotrophic bacterial communities capable of biodegrading trichloroethene (TCE) in acidic aquifers. <i>Biodegradation</i> , <b>2019</b> , 30, 173-190	4.1	9
14	Assessing Performance of Bioretention Boxes in Hot and Semiarid Regions: Highway Application Pilot Study. <i>Transportation Research Record</i> , <b>2011</b> , 2262, 155-163	1.7	9
13	Fabrication of Bacteria Environment Cubes with Dry Lift-Off Fabrication Process for Enhanced Nitrification. <i>PLoS ONE</i> , <b>2016</b> , 11, e0165839	3.7	9
12	Application of a Schottky barrier to dye-sensitized solar cells (DSSCs) with multilayer thin films of photoelectrodes. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, S486-S489	5.7	8
11	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> , <b>2020</b> , 8, 18094-18105	8.3	6
10	Preparation and Characterization of Anthocyanin Dye and Counter Electrode Thin Film with Carbon Nanotubes for Dye-Sensitized Solar Cells. <i>Materials Transactions</i> , <b>2011</b> , 52, 1977-1982	1.3	5
9	From Organic Wastes to Bioplastics: Feasibility of Nonsterile Poly(3-hydroxybutyrate) Production by ZD1. <i>ACS Omega</i> , <b>2020</b> , 5, 24158-24168	3.9	5

8	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. <i>PLoS ONE</i> , <b>2019</b> , 14, e0222143	3.7	4
7	Properties of an optical multipass surface plasmon resonance technique. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 071101	3.4	4
6	Fecal indicators, pathogens, antibiotic resistance genes, and ecotoxicity in Galveston Bay after Hurricane Harvey. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 411, 124953	12.8	4
5	Draft Genome Sequence of ZD1 (JCM 13380), a Salt-Tolerant Denitrifying Bacterium Capable of Producing Poly(3-Hydroxybutyrate). <i>Genome Announcements</i> , <b>2017</b> , 5,		3
4	Molecular quantification of virulence gene-containing <i>Aeromonas</i> in water samples collected from different drinking water treatment processes. <i>Environmental Monitoring and Assessment</i> , <b>2011</b> , 176, 225-38	3.5	3
3	Abundances of triclosan-degrading microorganisms in activated sludge systems. <i>Environmental Engineering Research</i> , <b>2015</b> , 20, 105-109	3.6	3
2	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> , <b>2022</b> , 423, 127052	12.8	2
1	Dual-function oleaginous biocatalysts for non-sterile cultivation and solvent-free biolipid bioextraction to reduce biolipid-based biofuel production costs. <i>Science of the Total Environment</i> , <b>2021</b> , 758, 143969	10.2	1