

Kung-Hui Chu

List of Publications by Year in descending order

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62
papers

2,892
citations

159358

30
h-index

168136

53
g-index

63
all docs

63
docs citations

63
times ranked

3333
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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> , 2021, 758, 143969.	3.9	2
4	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
5	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
6	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
7	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
8	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
9	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
10	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> , 2019, 14, e0222143.	1.1	9
11	Evaluation of methanotrophic bacterial communities capable of biodegrading trichloroethene (TCE) in acidic aquifers. <i>Biodegradation</i> , 2019, 30, 173-190.	1.5	14
12	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
13	Metabolites Involved in Aerobic Degradation of the A and B Rings of Estrogen. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	37
14	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
15	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
16	Photodegradation of fluorotelomer carboxylic 5:3 acid and perfluorooctanoic acid using zinc oxide. <i>Environmental Pollution</i> , 2018, 243, 637-644.	3.7	20
17	Biochemical Mechanisms and Catabolic Enzymes Involved in Bacterial Estrogen Degradation Pathways. <i>Cell Chemical Biology</i> , 2017, 24, 712-724.e7.	2.5	96
18	Cometabolic biodegradation of 1,2,3-trichloropropane by propane-oxidizing bacteria. <i>Chemosphere</i> , 2017, 168, 1494-1497.	4.2	18

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19	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
20	Draft Genome Sequence of <i>Zobellella denitrificans</i> ZD1 (JCM 13380), a Salt-Tolerant Denitrifying Bacterium Capable of Producing Poly(3-Hydroxybutyrate). <i>Genome Announcements</i> , 2017, 5, .	0.8	4
21	Fabrication of Bacteria Environment Cubes with Dry Lift-Off Fabrication Process for Enhanced Nitrification. <i>PLoS ONE</i> , 2016, 11, e0165839.	1.1	9
22	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
23	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
24	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
25	Engineering artificial communities for enhanced FTOH degradation. <i>Science of the Total Environment</i> , 2016, 572, 935-942.	3.9	24
26	Removal of triclosan in nitrifying activated sludge: Effects of ammonia amendment and bioaugmentation. <i>Chemosphere</i> , 2015, 125, 9-15.	4.2	21
27	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
28	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> , 2015, 297, 42-51.	6.5	19
29	Abundances of triclosan-degrading microorganisms in activated sludge systems. <i>Environmental Engineering Research</i> , 2015, 20, 105-109.	1.5	4
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	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
32	Identification of triclosan-degrading bacteria in a triclosan enrichment culture using stable isotope probing. <i>Biodegradation</i> , 2014, 25, 55-65.	1.5	40
33	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
34	Microbial degradation of steroidal estrogens. <i>Chemosphere</i> , 2013, 91, 1225-1235.	4.2	162
35	Effects of growth substrate on triclosan biodegradation potential of oxygenase-expressing bacteria. <i>Chemosphere</i> , 2013, 93, 1904-1911.	4.2	50
36	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

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37	Biodegradation of triclosan by a wastewater microorganism. <i>Water Research</i> , 2012, 46, 4226-4234.	5.3	139
38	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
39	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
40	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
41	Preparation and Characterization of Anthocyanin Dye and Counter Electrode Thin Film with Carbon Nanotubes for Dye-Sensitized Solar Cells. <i>Materials Transactions</i> , 2011, 52, 1977-1982.	0.4	8
42	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
43	Effects of solids retention time on the performance of bioreactors bioaugmented with a 17β -estradiol-utilizing bacterium, <i>Sphingomonas</i> strain KC8. <i>Chemosphere</i> , 2011, 84, 227-233.	4.2	21
44	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> , 2011, 176, 225-238.	1.3	5
45	Genome Sequence of the 17β -Estradiol-Utilizing Bacterium <i>Sphingomonas</i> Strain KC8. <i>Journal of Bacteriology</i> , 2011, 193, 4266-4267.	1.0	15
46	Assessing Performance of Bioretention Boxes in Hot and Semiarid Regions. <i>Transportation Research Record</i> , 2011, 2262, 155-163.	1.0	11
47	A 17β -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
48	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
49	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
50	Biodegradation potential of wastewater micropollutants by ammonia-oxidizing bacteria. <i>Chemosphere</i> , 2009, 77, 1084-1089.	4.2	232
51	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
52	17β -Estradiol-Degrading Bacteria Isolated from Activated Sludge. <i>Environmental Science & Technology</i> , 2007, 41, 486-492.	4.6	213
53	Properties of an optical multipass surface plasmon resonance technique. <i>Applied Physics Letters</i> , 2006, 89, 071101.	1.5	5
54	Variable carbon isotope fractionation expressed by aerobic CH_4 -oxidizing bacteria. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1739-1752.	1.6	175

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55	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
56	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
57	Stable Carbon Isotope Fractionation during Aerobic Biodegradation of Chlorinated Ethenes. <i>Environmental Science & Technology</i> , 2004, 38, 3126-3130.	4.6	65
58	MTBE and Other Oxygenates: Environmental Sources, Analysis, Occurrence, and Treatment. <i>Environmental Engineering Science</i> , 2003, 20, 433-447.	0.8	86
59	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
60	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
61	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
62	Trichloroethylene degradation by methane-oxidizing cultures grown with various nitrogen sources. <i>Water Environment Research</i> , 1996, 68, 76-82.	1.3	43