

Leiyu Feng

List of Publications by Year in descending order

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42
papers

2,925
citations

218381

26
h-index

276539

41
g-index

42
all docs

42
docs citations

42
times ranked

3209
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Enhancement of Waste Activated Sludge Protein Conversion and Volatile Fatty Acids Accumulation during Waste Activated Sludge Anaerobic Fermentation by Carbohydrate Substrate Addition: The Effect of pH. <i>Environmental Science & Technology</i> , 2009, 43, 4373-4380. | 4.6 | 391 |
| 2 | Nitrogen-doped carbon nanotubes as efficient and durable metal-free cathodic catalysts for oxygen reduction in microbial fuel cells. <i>Energy and Environmental Science</i> , 2011, 4, 1892. | 15.6 | 343 |
| 3 | Dilemma of Sewage Sludge Treatment and Disposal in China. <i>Environmental Science & Technology</i> , 2015, 49, 4781-4782. | 4.6 | 226 |
| 4 | Easy-to-Operate and Low-Temperature Synthesis of Gram-Scale Nitrogen-Doped Graphene and Its Application as Cathode Catalyst in Microbial Fuel Cells. <i>ACS Nano</i> , 2011, 5, 9611-9618. | 7.3 | 205 |
| 5 | Polycyclic Aromatic Hydrocarbon Affects Acetic Acid Production during Anaerobic Fermentation of Waste Activated Sludge by Altering Activity and Viability of Acetogen. <i>Environmental Science & Technology</i> , 2016, 50, 6921-6929. | 4.6 | 145 |
| 6 | Ultrasonic enhancement of waste activated sludge hydrolysis and volatile fatty acids accumulation at pH 10.0. <i>Water Research</i> , 2010, 44, 3329-3336. | 5.3 | 144 |
| 7 | Alkyl polyglucose enhancing propionic acid enriched short-chain fatty acids production during anaerobic treatment of waste activated sludge and mechanisms. <i>Water Research</i> , 2015, 73, 332-341. | 5.3 | 123 |
| 8 | Enhancing Electrocatalytic Oxygen Reduction on Nitrogen-Doped Graphene by Active Sites Implantation. <i>Scientific Reports</i> , 2013, 3, 3306. | 1.6 | 100 |
| 9 | Effect of solids retention time and temperature on waste activated sludge hydrolysis and short-chain fatty acids accumulation under alkaline conditions in continuous-flow reactors. <i>Bioresource Technology</i> , 2009, 100, 44-49. | 4.8 | 97 |
| 10 | Stimulating short-chain fatty acids production from waste activated sludge by nano zero-valent iron. <i>Journal of Biotechnology</i> , 2014, 187, 98-105. | 1.9 | 92 |
| 11 | Boron-, sulfur-, and phosphorus-doped graphene for environmental applications. <i>Science of the Total Environment</i> , 2020, 698, 134239. | 3.9 | 79 |
| 12 | Effect of nonylphenol on volatile fatty acids accumulation during anaerobic fermentation of waste activated sludge. <i>Water Research</i> , 2016, 105, 209-217. | 5.3 | 71 |
| 13 | Bio-denitrification performance enhanced by graphene-facilitated iron acquisition. <i>Water Research</i> , 2020, 180, 115916. | 5.3 | 70 |
| 14 | New method for algae comprehensive utilization: Algae-derived biochar enhances algae anaerobic fermentation for short-chain fatty acids production. <i>Bioresource Technology</i> , 2019, 289, 121637. | 4.8 | 66 |
| 15 | Metagenomic analysis reveals nonylphenol-shaped acidification and methanogenesis during sludge anaerobic digestion. <i>Water Research</i> , 2021, 196, 117004. | 5.3 | 64 |
| 16 | Petroleum hydrocarbon-contaminated soil bioremediation assisted by isolated bacterial consortium and sphorolipid. <i>Environmental Pollution</i> , 2021, 273, 116476. | 3.7 | 50 |
| 17 | Pig manure-derived nitrogen-doped mesoporous carbon for adsorption and catalytic oxidation of tetracycline. <i>Science of the Total Environment</i> , 2020, 708, 135071. | 3.9 | 46 |
| 18 | Application of alkyl polyglycosides for enhanced bioremediation of petroleum hydrocarbon-contaminated soil using <i>Sphingomonas changbaiensis</i> and <i>Pseudomonas stutzeri</i> . <i>Science of the Total Environment</i> , 2020, 719, 137456. | 3.9 | 46 |

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|----|---|-----|-----------|
| 19 | Influence of sulfadiazine on anaerobic fermentation of waste activated sludge for volatile fatty acids production: Focusing on microbial responses. <i>Chemosphere</i> , 2019, 219, 305-312. | 4.2 | 45 |
| 20 | Biological nutrient removal with low nitrous oxide generation by cancelling the anaerobic phase and extending the idle phase in a sequencing batch reactor. <i>Chemosphere</i> , 2014, 109, 56-63. | 4.2 | 38 |
| 21 | Enhanced Bio-hydrogen Production from Protein Wastewater by Altering Protein Structure and Amino Acids Acidification Type. <i>Scientific Reports</i> , 2014, 4, 3992. | 1.6 | 38 |
| 22 | Enhancing anaerobic digestion of waste activated sludge by pretreatment: effect of volatile to total solids. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 1520-1529. | 1.2 | 34 |
| 23 | Bisphenol A alters volatile fatty acids accumulation during sludge anaerobic fermentation by affecting amino acid metabolism, material transport and carbohydrate-active enzymes. <i>Bioresource Technology</i> , 2021, 323, 124588. | 4.8 | 34 |
| 24 | Acidogenic bacteria assisted biodegradation of nonylphenol in waste activated sludge during anaerobic fermentation for short-chain fatty acids production. <i>Bioresource Technology</i> , 2018, 268, 692-699. | 4.8 | 32 |
| 25 | Kinetic analysis of waste activated sludge hydrolysis and short-chain fatty acids production at pH 10. <i>Journal of Environmental Sciences</i> , 2009, 21, 589-594. | 3.2 | 30 |
| 26 | Activated carbon promotes short-chain fatty acids production from algae during anaerobic fermentation. <i>Science of the Total Environment</i> , 2019, 658, 1131-1138. | 3.9 | 30 |
| 27 | Co-fermentation of waste activated sludge with food waste for short-chain fatty acids production: effect of pH at ambient temperature. <i>Frontiers of Environmental Science and Engineering in China</i> , 2011, 5, 623-632. | 0.8 | 25 |
| 28 | Waste activated sludge hydrolysis and acidification: A comparison between sodium hydroxide and steel slag addition. <i>Journal of Environmental Sciences</i> , 2016, 48, 200-208. | 3.2 | 24 |
| 29 | Pyridinic and pyrrolic nitrogen-rich ordered mesoporous carbon for efficient oxygen reduction in microbial fuel cells. <i>RSC Advances</i> , 2017, 7, 14669-14677. | 1.7 | 24 |
| 30 | Immobilizing photogenerated electrons from graphitic carbon nitride for an improved visible-light photocatalytic activity. <i>Scientific Reports</i> , 2016, 6, 22808. | 1.6 | 23 |
| 31 | Volatile fatty acids production from waste activated sludge during anaerobic fermentation: The effect of superfine sand. <i>Bioresource Technology</i> , 2021, 319, 124249. | 4.8 | 23 |
| 32 | Anaerobic accumulation of short-chain fatty acids from algae enhanced by damaging cell structure and promoting hydrolase activity. <i>Bioresource Technology</i> , 2018, 250, 777-783. | 4.8 | 21 |
| 33 | Nitrogen-doped porous carbon derived from digested sludge for electrochemical reduction of carbon dioxide to formate. <i>Science of the Total Environment</i> , 2021, 759, 143575. | 3.9 | 21 |
| 34 | Integrated approach to enhance the anaerobic biodegradation of benz[<i>a</i>]anthracene: A high-molecule-weight polycyclic aromatic hydrocarbon in sludge by simultaneously improving the bioavailability and microbial activity. <i>Journal of Hazardous Materials</i> , 2019, 365, 322-330. | 6.5 | 20 |
| 35 | Microbial Ecological Mechanism for Long-Term Production of High Concentrations of <i>n</i> -Caproate via Lactate-Driven Chain Elongation. <i>Applied and Environmental Microbiology</i> , 2021, 87, . | 1.4 | 20 |
| 36 | Nitric Oxide: A Neglected Driver for the Conjugative Transfer of Antibiotic Resistance Genes among Wastewater Microbiota. <i>Environmental Science & Technology</i> , 2022, 56, 6466-6478. | 4.6 | 20 |

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|----|---|-----|-----------|
| 37 | Carbon Nitride Anchored on a Nitrogen-Doped Carbon Nanotube Surface for Enhanced Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2020, 12, 56954-56962. | 4.0 | 19 |
| 38 | Simultaneous enhancement of nonylphenol biodegradation and short-chain fatty acids production in waste activated sludge under acidogenic conditions. Science of the Total Environment, 2019, 651, 24-31. | 3.9 | 17 |
| 39 | Acidogenic Fermentation Facilitates Anaerobic Biodegradation of Polycyclic Aromatic Hydrocarbons in Waste Activated Sludge. ACS Sustainable Chemistry and Engineering, 2019, 7, 5404-5411. | 3.2 | 15 |
| 40 | Polycyclic aromatic hydrocarbons stimulate acidogenesis, acetogenesis and methanogenesis during anaerobic co-digestion of waste activated sludge and food waste. Bioresource Technology, 2022, 360, 127567. | 4.8 | 8 |
| 41 | Sulfadiazine inhibits hydrogen production during sludge anaerobic fermentation by affecting pyruvate decarboxylation. Science of the Total Environment, 2022, 838, 156415. | 3.9 | 6 |
| 42 | The study on waste activated sludge reclamation via alkaline fermentation. , 2011, , . | | 0 |