

Lei Zhou

List of Publications by Year in descending order

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32
papers

811
citations

687363
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501196
28
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32
all docs

32
docs citations

32
times ranked

837
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbial communities involved in anaerobic degradation of alkanes. <i>International Biodeterioration and Biodegradation</i> , 2011, 65, 1-13.	3.9	175
2	High Frequency of <i>Thermodesulfovibrio</i> spp. and Anaerolineaceae in Association with <i>Methanoculleus</i> spp. in a Long-Term Incubation of n-Alkanes-Degrading Methanogenic Enrichment Culture. <i>Frontiers in Microbiology</i> , 2016, 7, 1431.	3.5	95
3	Analyses of n-alkanes degrading community dynamics of a high-temperature methanogenic consortium enriched from production water of a petroleum reservoir by a combination of molecular techniques. <i>Ecotoxicology</i> , 2012, 21, 1680-1691.	2.4	67
4	Diversity and Composition of Sulfate-Reducing Microbial Communities Based on Genomic DNA and RNA Transcription in Production Water of High Temperature and Corrosive Oil Reservoir. <i>Frontiers in Microbiology</i> , 2017, 8, 1011.	3.5	63
5	Anaerobic Degradation of Paraffins by Thermophilic Actinobacteria under Methanogenic Conditions. <i>Environmental Science & Technology</i> , 2020, 54, 10610-10620.	10.0	53
6	Characterization of bacterial composition and diversity in a long-term petroleum contaminated soil and isolation of high-efficiency alkane-degrading strains using an improved medium. <i>World Journal of Microbiology and Biotechnology</i> , 2018, 34, 34.	3.6	48
7	Direct microbial transformation of carbon dioxide to value-added chemicals: A comprehensive analysis and application potentials. <i>Bioresource Technology</i> , 2019, 288, 121401.	9.6	40
8	Simultaneous methanogenesis and acetogenesis from the greenhouse carbon dioxide by an enrichment culture supplemented with zero-valent iron. <i>Renewable Energy</i> , 2019, 132, 861-870.	8.9	32
9	Accelerated CO ₂ reduction to methane for energy by zero valent iron in oil reservoir production waters. <i>Energy</i> , 2018, 147, 663-671.	8.8	27
10	Methanogenic Degradation of Long n-Alkanes Requires Fumarate-Dependent Activation. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	22
11	Methanogenic biodegradation of C ₉ to C ₁₂ n-alkanes initiated by <i>Smithella</i> via fumarate addition mechanism. <i>AMB Express</i> , 2020, 10, 23.	3.0	22
12	Methanogenic degradation of branched alkanes in enrichment cultures of production water from a high-temperature petroleum reservoir. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 2391-2401.	3.6	21
13	Formate-Dependent Microbial Conversion of CO ₂ and the Dominant Pathways of Methanogenesis in Production Water of High-temperature Oil Reservoirs Amended with Bicarbonate. <i>Frontiers in Microbiology</i> , 2016, 7, 365.	3.5	19
14	Long-chain n-alkane biodegradation coupling to methane production in an enriched culture from production water of a high-temperature oil reservoir. <i>AMB Express</i> , 2020, 10, 63.	3.0	13
15	Activation of CO ₂ -reducing methanogens in oil reservoir after addition of nutrient. <i>Journal of Bioscience and Bioengineering</i> , 2016, 122, 740-747.	2.2	12
16	Microbial reduction of CO ₂ from injected NaH ₂ CO ₃ with degradation of n-hexadecane in the enrichment culture derived from a petroleum reservoir. <i>International Biodeterioration and Biodegradation</i> , 2018, 127, 192-200.	3.9	12
17	Assessment of Five Electron-Shuttling Molecules in the Extracellular Electron Transfer of Electromethanogenesis by using <i>Methanosarcina barkeri</i> . <i>ChemElectroChem</i> , 2020, 7, 3783-3789.	3.4	11
18	Microbial Lipopeptide-Producing Strains and Their Metabolic Roles under Anaerobic Conditions. <i>Microorganisms</i> , 2021, 9, 2030.	3.6	10

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19	New evidence for a hydroxylation pathway for anaerobic alkane degradation supported by analyses of functional genes and signature metabolites in oil reservoirs. <i>AMB Express</i> , 2021, 11, 18.	3.0	10
20	Synthesis and Characterization of Anaerobic Degradation Biomarkers of n-Alkanes via Hydroxylation/Carboxylation Pathways. <i>European Journal of Mass Spectrometry</i> , 2016, 22, 31-37.	1.0	7
21	A high yield method for the direct amidation of long-chain fatty acids. <i>International Journal of Chemical Kinetics</i> , 2020, 52, 99-108.	1.6	7
22	Insight into the Adsorption Mechanisms of CO ₂ , CH ₄ , and Their Mixtures on Kerogen Type IIIA. <i>Energy & Fuels</i> , 2020, 34, 14300-14311.	5.1	7
23	Propionate metabolism and diversity of relevant functional genes by in silico analysis and detection in subsurface petroleum reservoirs. <i>World Journal of Microbiology and Biotechnology</i> , 2017, 33, 182.	3.6	6
24	Electron donors and mediators in the thermodynamics and kinetics of CO ₂ bioreduction. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 156, 111997.	16.4	5
25	Genetic engineering of the branched-chain fatty acid biosynthesis pathway to enhance surfactin production from <i>Bacillus subtilis</i> . <i>Biotechnology and Applied Biochemistry</i> , 2023, 70, 238-248.	3.1	5
26	A two-step synthesis of deuterium labeled 8, 8, 9, 9-d ₄ -hexadecane from nonanoic acid. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2012, 55, 158-160.	1.0	4
27	Simultaneous detection of transcribed functional <i>assA</i> gene and the corresponding metabolites of linear alkanes (C ₄ , C ₅ , and C ₇) in production water of a low-temperature oil reservoir. <i>Science of the Total Environment</i> , 2020, 746, 141290.	8.0	4
28	Dominant and Active Methanogens in the Production Waters From a High-Temperature Petroleum Reservoir by DNA- and RNA-Based Analysis. <i>Geomicrobiology Journal</i> , 2021, 38, 191-198.	2.0	4
29	<i>Aminirod propionatiphilus</i> gen. nov., sp. nov., an isolated secondary fermenter in methanogenic hydrocarbon-degrading communities. <i>International Biodeterioration and Biodegradation</i> , 2021, 165, 105323.	3.9	3
30	Discovery of the non-cosmopolitan lineages in <i>Candidatus</i> Thermoprofundales. <i>Environmental Microbiology</i> , 2022, 24, 3063-3080.	3.8	3
31	Bioconversion Pathway of CO ₂ in the Presence of Ethanol by Methanogenic Enrichments from Production Water of a High-Temperature Petroleum Reservoir. <i>Energies</i> , 2019, 12, 918.	3.1	2
32	Synthesis and mass spectra of rearrangement bio-signature metabolites of anaerobic alkane degradation via fumarate addition. <i>Analytical Biochemistry</i> , 2020, 600, 113746.	2.4	2