

Qiang Fei

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,432
citations

567281

15
h-index

477307

29
g-index

31
all docs

31
docs citations

31
times ranked

1650
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioconversion of natural gas to liquid fuel: Opportunities and challenges. <i>Biotechnology Advances</i> , 2014, 32, 596-614.	11.7	255
2	The effect of volatile fatty acids as a sole carbon source on lipid accumulation by <i>Cryptococcus albidus</i> for biodiesel production. <i>Bioresource Technology</i> , 2011, 102, 2695-2701.	9.6	252
3	<i>Zymomonas mobilis</i> as a model system for production of biofuels and biochemicals. <i>Microbial Biotechnology</i> , 2016, 9, 699-717.	4.2	169
4	Enhanced lipid production by <i>Rhodospiridium toruloides</i> using different fed-batch feeding strategies with lignocellulosic hydrolysate as the sole carbon source. <i>Biotechnology for Biofuels</i> , 2016, 9, 130.	6.2	127
5	Lipid production by microalgae <i>Chlorella protothecoides</i> with volatile fatty acids (VFAs) as carbon sources in heterotrophic cultivation and its economic assessment. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 691-700.	3.4	100
6	Exploring low-cost carbon sources for microbial lipids production by fed-batch cultivation of <i>Cryptococcus albidus</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2011, 16, 482-487.	2.6	88
7	A novel integrated biorefinery process for diesel fuel blendstock production using lipids from the methanotroph, <i>Methylomicrobium buryatense</i> . <i>Energy Conversion and Management</i> , 2017, 140, 62-70.	9.2	54
8	Volatile fatty acids derived from waste organics provide an economical carbon source for microbial lipids/biodiesel production. <i>Biotechnology Journal</i> , 2014, 9, 1536-1546.	3.5	50
9	Multi-stage high cell continuous fermentation for high productivity and titer. <i>Bioprocess and Biosystems Engineering</i> , 2011, 34, 419-431.	3.4	47
10	Water-Soluble Anthraquinone Photocatalysts Enable Methanol-Driven Enzymatic Halogenation and Hydroxylation Reactions. <i>ACS Catalysis</i> , 2020, 10, 8277-8284.	11.2	41
11	Enhanced biological fixation of methane for microbial lipid production by recombinant <i>Methylomicrobium buryatense</i> . <i>Biotechnology for Biofuels</i> , 2018, 11, 129.	6.2	38
12	Enhanced lignin biodegradation by consortium of white rot fungi: microbial synergistic effects and product mapping. <i>Biotechnology for Biofuels</i> , 2021, 14, 162.	6.2	34
13	Biological valorization of natural gas for the production of lactic acid: Techno-economic analysis and life cycle assessment. <i>Biochemical Engineering Journal</i> , 2020, 158, 107500.	3.6	25
14	Application of an in situ CO ₂ bicarbonate system under nitrogen depletion to improve photosynthetic biomass and starch production and regulate amylose accumulation in a marine green microalga <i>Tetraselmis subcordiformis</i> . <i>Biotechnology for Biofuels</i> , 2019, 12, 184.	6.2	24
15	Enhanced microbial lipid production by <i>Cryptococcus albidus</i> in the high-cell-density continuous cultivation with membrane cell recycling and two-stage nutrient limitation. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2018, 45, 1045-1051.	3.0	19
16	Bio-valorization of C1 gaseous substrates into bioalcohols: Potentials and challenges in reducing carbon emissions. <i>Biotechnology Advances</i> , 2022, 59, 107954.	11.7	16
17	Empowering a Methanol-Dependent <i>Escherichia coli</i> via Adaptive Evolution Using a High-Throughput Microbial Microdroplet Culture System. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 570.	4.1	13
18	Biobutanol production from cassava waste residue using <i>Clostridium</i> sp. AS3 in batch culture fermentation. <i>Biofuels</i> , 2021, 12, 1259-1266.	2.4	11

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19	One-pot Chemoenzymatic Deracemisation of Secondary Alcohols Employing Variants of Galactose Oxidase and Transfer Hydrogenation. <i>ChemCatChem</i> , 2020, 12, 6191-6195.	3.7	11
20	Year-Round Storage Operation of Three Major Agricultural Crop Residue Biomasses by Performing Dry Acid Pretreatment at Regional Collection Depots. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4722-4734.	6.7	10
21	Economic evaluation of off-gas recycle pressure swing adsorption (PSA) in industrial scale poly(3-hydroxybutyrate) fermentation. <i>Biotechnology and Bioprocess Engineering</i> , 2010, 15, 905-910.	2.6	9
22	Co-production of acetoin and succinic acid by metabolically engineered <i>Enterobacter cloacae</i> . <i>Biotechnology for Biofuels</i> , 2021, 14, 26.	6.2	9
23	From nature to nurture: Essence and methods to isolate robust methanotrophic bacteria. <i>Synthetic and Systems Biotechnology</i> , 2020, 5, 173-178.	3.7	8
24	Molecular Mechanism Associated With the Impact of Methane/Oxygen Gas Supply Ratios on Cell Growth of <i>Methylobacterium buryatense</i> 5GB1 Through RNA-Seq. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 263.	4.1	6
25	Exploration of an Efficient Electroporation System for Heterologous Gene Expression in the Genome of Methanotroph. <i>Frontiers in Microbiology</i> , 2021, 12, 717033.	3.5	6
26	Metabolic Engineering of <i>Pseudomonas chlororaphis</i> for <i>De Novo</i> Production of Iodinol from Glycerol. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 9194-9204.	6.7	5
27	Transcriptomic profiling of nitrogen fixation and the role of NifA in <i>Methylobacterium buryatense</i> 5GB1. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 3191-3199.	3.6	3
28	Recombinant cyanobacteria cultured in CO ₂ and seawater as feedstock for coproduction of acetoin and succinate by engineered <i>Enterobacter cloacae</i> . <i>Journal of CO₂ Utilization</i> , 2021, 52, 101683.	6.8	1
29	Systems Metabolic Engineering of Methanotrophic Bacteria for Biological Conversion of Methane to Value-Added Compounds. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2022, , 91-126.	1.1	1
30	Advanced Fermentation Strategies to Enhance Lipid Production from Lignocellulosic Biomass. , 2021, , 229-243.		0