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## Biobutanol: Biofuel of second generation

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#	Paper	IF	Citations
40	Liquid Biofuels: Biodiesel and Bioalcohols. <b>2010</b> , 359		1
39	Extremophiles in biofuel synthesis. <i>Environmental Technology (United Kingdom)</i> , <b>2010</b> , 31, 871-88	2.6	116
38	Production of biofuels from synthesis gas using microbial catalysts. <i>Advances in Applied Microbiology</i> , <b>2010</b> , 70, 57-92	4.9	33
37	Chromatographic Recovery of Monosaccharides for the Production of Bioethanol from Wood. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 2907-2915	3.9	35
36	Thermal decomposition of 2-butanol as a potential nonfossil fuel: a computational study. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 2837-46	2.8	31
35	Performance and Emission Characteristics of Alcohol/Jet A Blends in a Small-Scale Gas Turbine Engine. <b>2011</b> ,		2
34	Biocatalysts based on immobilized cells of microorganisms in the production of bioethanol and biobutanol. <i>Catalysis in Industry</i> , <b>2011</b> , 3, 41-46	0.8	18
33	Performance and Emission Characteristics of a Small-Scale Gas Turbine Engine Fueled with Ethanol/Jet A Blends. <b>2012</b> ,		7
32	Engineering a homobutanol fermentation pathway in Escherichia coli EG03. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2012</b> , 39, 1101-7	4.2	11
31	A computational study on the structures and energetics of isobutanol pyrolysis. <i>Computational and Theoretical Chemistry</i> , <b>2012</b> , 997, 94-102	2	9
30	Modelling and performance evaluation of chromatographic monosaccharide recovery from concentrated acid lignocellulosic hydrolysates. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2012</b> , 87, 1676-1686	3.5	17
29	Adsorbent screening for biobutanol separation by adsorption: kinetics, isotherms and competitive effect of other compounds. <i>Adsorption</i> , <b>2013</b> , 19, 1263-1272	2.6	56
28	Chromatographic Fractionation of Lignocellulosic Hydrolysates. <i>Advances in Chemical Engineering</i> , <b>2013</b> , 42, 261-349	0.6	4
27	Biofuels. <b>2014</b> , 299-319		
26	Performance and emission characteristics of butanol/Jet A blends in a gas turbine engine. <i>Applied Energy</i> , <b>2014</b> , 118, 135-140	10.7	56
25	Separation techniques in butanol production: Challenges and developments. <i>Biomass and Bioenergy</i> , <b>2014</b> , 60, 222-246	5.3	205
24	Experimental study on emissions and performance of an internal combustion engine fueled with gasoline and gasoline/n-butanol blends. <i>Energy Conversion and Management</i> , <b>2014</b> , 88, 277-283	10.6	114

23	Salting-out of acetone, 1-butanol, and ethanol from dilute aqueous solutions. <i>AIChE Journal</i> , <b>2015</b> , 61, 3470-3478	3.6	24
22	Adsorptive separation and recovery of biobutanol from ABE model solutions. <i>Adsorption</i> , <b>2015</b> , 21, 185-194	1.4	33
21	Combustion of n-Butanol, Gasoline, and n-Butanol/Gasoline Mixture Droplets. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 3467-3475	4.1	33
20	Feasibility of bioethanol and biobutanol as transportation fuel in spark-ignition engine: a review. <i>RSC Advances</i> , <b>2015</b> , 5, 100184-100211	3.7	46
19	Inoculum optimization of <i>Clostridium beijerinckii</i> for reproducible growth. <i>FEMS Microbiology Letters</i> , <b>2015</b> , 362,	2.9	14
18	Continuous liquid-phase valorization of bio-ethanol towards bio-butanol over metal modified alumina. <i>Renewable Energy</i> , <b>2015</b> , 74, 369-378	8.1	38
17	Liquid Biofuels: Bioalcohols, Biodiesel and Biogasoline and Algal Biofuels. <b>2016</b> , 1-43		2
16	Physical properties of gasoline, isobutanol and ETBE binary blends in comparison with gasoline ethanol blends. <i>Fuel</i> , <b>2016</b> , 166, 73-78	7.1	27
15	Multicomponent adsorption modeling: isotherms for ABE model solutions using activated carbon F-400. <i>Adsorption</i> , <b>2016</b> , 22, 357-370	2.6	18
14	Acetone-butanol fermentation of lignocellulosic hydrolysates for the butanol production. <b>2017</b> ,		
13	Screening of ionic liquids as extractant for 1-butanol extraction from dilute solution. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2018</b> , 91, 119-129	5.3	10
12	Biobutanol as a promising liquid fuel for the future - recent updates and perspectives. <i>Fuel</i> , <b>2019</b> , 253, 637-646	7.1	70
11	Biofuels. <b>2019</b> , 507-542		
10	Combustion characteristics of butanol, butyl butyrate, and Jet A-1 in a swirl-stabilized combustor. <i>Fuel</i> , <b>2020</b> , 281, 118743	7.1	5
9	How to outwit nature: Omics insight into butanol tolerance. <i>Biotechnology Advances</i> , <b>2021</b> , 46, 107658	17.8	6
8	The economic feasibility and environmental ramifications of biobutanol production in Malaysia. <i>Journal of Cleaner Production</i> , <b>2021</b> , 286, 124953	10.3	9
7	Physicochemical Properties of Biobutanol as an Advanced Biofuel. <i>Materials</i> , <b>2021</b> , 14,	3.5	3
6	Renewable Polyurethanes from Sustainable Biological Precursors. <i>Biomacromolecules</i> , <b>2021</b> , 22, 1770-1794	1.4	12

5	Advanced Metabolic Engineering Approaches and Renewable Energy to Improve Environmental Benefits of Algal Biofuels: LCA of Large-scale Biobutanol Production with Cyanobacteria <i>Synechocystis</i> PCC6803. <i>Bioenergy Research</i> ,	3.1	1
4	Combustion characteristics of butanol-Jet A-1 fuel blends in a swirl-stabilized combustor under the influence of preheated swirling air. <i>International Journal of Energy Research</i> ,	4.5	1
3	Bioconversion of Malaysia Renewable Energy Resources to Biobutanol. <i>Green Energy and Technology</i> , <b>2022</b> , 117-146	0.6	0
2	Role of thermophilic cellulases and organisms in the conversion of biomass to biofuels. <b>2022</b> , 85-113		0
1	Algal Butanol Production: Recent Developments. <b>2023</b> , 81-107		0