A perspective on gaseous biofuel production from micro-algae generated from CO 2 from a coal-fired power plant

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#	Paper	IF	Citations
29	ChemInform Abstract: A Perspective on Gaseous Biofuel Production from Micro-Algae Generated from CO2 from a Coal-Fired Power Plant. *ChemInform*, **2015**, 46, no-no		
28	All in One - Complete Issue: ChemInform 51/2015. *ChemInform*, **2015**, 46, no-no		
27	Sustainable valorization of flue gas CO2 and wastewater for the production of microalgal biomass as a biofuel feedstock in closed and open reactor systems. *RSC Advances*, **2016**, 6, 91111-91120	3.7	35
26	CO2 capture with aqueous solution of sodium glycinate: Modeling using an ensemble method. *International Journal of Greenhouse Gas Control*, **2017**, 62, 23-30	4.2	16
25	Global optimization of microalgae-to-biodiesel chains with integrated cogasification combined cycle systems based on greenhouse gas emissions reductions. *Applied Energy*, **2017**, 197, 63-82	10.7	23
24	Cascading biomethane energy systems for sustainable green gas production in a circular economy. *Bioresource Technology*, **2017**, 243, 1207-1215	11	53
23	An overview of marine macroalgae as bioresource. *Renewable and Sustainable Energy Reviews*, **2018**, 91, 165-179	16.2	118
22	Assessment of continuous fermentative hydrogen and methane co-production using macro- and micro-algae with increasing organic loading rate. *Energy*, **2018**, 151, 760-770	7.9	22
21	An overview of the effects of fuel molecular structure on the combustion and emissions characteristics of compression ignition engines. *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, **2018**, 232, 90-105	1.4	46
20	Evaluating Algae as an Alternative Fuel for Chemical Looping Combustion. *PAM Review Energy Science & Technology*, **2018**, 5, 37-55	0	
19	Sustainability Analysis of Microalgae Production Systems: A Review on Resource with Unexploited High-Value Reserves. *Environmental Science & Technology*, **2018**, 52, 14031-14049	10.3	40
18	Characterizing CO2 capture with aqueous solutions of LysK and the mixture of MAPA + DEEA using soft computing methods. *Energy*, **2018**, 164, 664-675	7.9	8
17	Microbial Hazards in Treated Wastewater: Challenges and Opportunities for Their Reusing in Egypt. *Handbook of Environmental Chemistry*, **2018**, 313-336	0.8	
16	Life cycle evaluation of microalgae biofuels production: Effect of cultivation system on energy, carbon emission and cost balance analysis. *Science of the Total Environment*, **2019**, 688, 112-128	10.2	98
15	A review on cleaner production of biofuel feedstock from integrated CO2 sequestration and wastewater treatment system. *Journal of Cleaner Production*, **2019**, 210, 445-458	10.3	46
14	Carbon Capture, Utilization and Storage (CCUS). *Applied Energy*, **2019**, 235, 1289-1299	10.7	86
13	Bio-combustion of petroleum coke: The process integration with photobioreactors. Part II Sustainability metrics and bioeconomy. *Chemical Engineering Science*, **2020**, 213, 115412	4.4	17

12	The Perspective of Large-Scale Production of Algae Biodiesel. *Applied Sciences (Switzerland)*, **2020**, 10, 8181	2.6	39
11	Production of Bio-Hydrogen from Agricultural residues : A Contemporary Review. *IOP Conference Series: Earth and Environmental Science*, **2020**, 573, 012007	0.3	
10	Sustainable technologies for seaweed conversion to biofuels and bioproducts. **2020**, 643-661		1
9	Improving flashing light frequency and CO2 fixation rate with vortex movement of algal cells in raceway pond with conic baffles. *Chemical Engineering Science*, **2020**, 216, 115536	4.4	8
8	Technical insights into the production of green fuel from CO sequestered algal biomass: A conceptual review on green energy. *Science of the Total Environment*, **2021**, 755, 142636	10.2	32
7	Valorization of microalgal biomass for biohydrogen generation: A review. *Bioresource Technology*, **2021**, 322, 124533	11	10
6	Fecitrate converted from FeO particles in coal-fired flue gas promoted microalgal biomass and lipid productivities. *Science of the Total Environment*, **2021**, 760, 143405	10.2	1
5	Review on the recent structural advances in open and closed systems for carbon capture through algae. *Energy Nexus*, **2021**, 100032		5
4	A techno-economic review on carbon capture, utilisation and storage systems for achieving a net-zero CO2 emissions future. *Carbon Capture Science & Technology*, **2022**, 3, 100044		13
3	A critical overview of upstream cultivation and downstream processing of algae-based biofuels: Opportunity, technological barriers and future perspective.. *Journal of Biotechnology*, **2022**,	3.7	1
2	Microalgal biofuel production: Potential challenges and prospective research. **2023**, 332, 126199		2
1	Enhanced microalgal lipid production for biofuel using different strategies including genetic modification of microalgae: A review. **2023**, 96, 101071		0