Ryan Davis

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/12158122/publications.pdf

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21 papers	2,613 citations	516710 16 h-index	713466 21 g-index
24 all docs	24 docs citations	24 times ranked	3122 citing authors

#	Article	IF	Citations
1	Techno-economic analysis of autotrophic microalgae for fuel production. Applied Energy, 2011, 88, 3524-3531.	10.1	850
2	The potentials and challenges of algae based biofuels: A review of the techno-economic, life cycle, and resource assessment modeling. Bioresource Technology, 2015, 184, 444-452.	9.6	368
3	Comparative cost analysis of algal oil production for biofuels. Energy, 2011, 36, 5169-5179.	8.8	205
4	Development of algae biorefinery concepts for biofuels and bioproducts; a perspective on process-compatible products and their impact on cost-reduction. Energy and Environmental Science, 2017, 10, 1716-1738.	30.8	193
5	Combined algal processing: A novel integrated biorefinery process to produce algal biofuels and bioproducts. Algal Research, 2016, 19, 316-323.	4.6	184
6	The Techno-Economic Basis for Coproduct Manufacturing To Enable Hydrocarbon Fuel Production from Lignocellulosic Biomass. ACS Sustainable Chemistry and Engineering, 2016, 4, 3196-3211.	6.7	121
7	Techno-economic analysis and life cycle assessment of a biorefinery utilizing reductive catalytic fractionation. Energy and Environmental Science, 2021, 14, 4147-4168.	30.8	106
8	Lifeâ€cycle analysis of integrated biorefineries with coâ€production of biofuels and bioâ€based chemicals: coâ€product handling methods and implications. Biofuels, Bioproducts and Biorefining, 2018, 12, 815-833.	3.7	53
9	A Unified Modeling Framework to Advance Biofuel Production from Microalgae. Environmental Science & Technology, 2018, 52, 13591-13599.	10.0	31
10	Supply and value chain analysis of mixed biomass feedstock supply system for lignocellulosic sugar production. Biofuels, Bioproducts and Biorefining, 2019, 13, 635-659.	3.7	30
11	Techno-economic analysis of a conceptual biofuel production process from bioethylene produced by photosynthetic recombinant cyanobacteria. Green Chemistry, 2016, 18, 6266-6281.	9.0	28
12	Economic and environmental potentials for natural gas to enhance biomass-to-liquid fuels technologies. Green Chemistry, 2018, 20, 5358-5373.	9.0	26
13	Assessing the stability and techno-economic implications for wet storage of harvested microalgae to manage seasonal variability. Biotechnology for Biofuels, 2019, 12, 80.	6.2	25
14	Reliability metrics and their management implications for open pond algae cultivation. Algal Research, 2021, 55, 102249.	4.6	24
15	Infrastructure associated emissions for renewable diesel production from microalgae. Algal Research, 2014, 5, 195-203.	4.6	18
16	Planning for Algal Systems: An Energy-Water-Food Nexus Perspective. Industrial Biotechnology, 2014, 10, 202-211.	0.8	16
17	The Energy-Water-Food Nexus Through the Lens of Algal Systems. Industrial Biotechnology, 2013, 9, 158-162.	0.8	14
18	Biorefinery upgrading of herbaceous biomass to renewable hydrocarbon fuels, Part 2: Air pollutant emissions and permitting implications. Journal of Cleaner Production, 2022, 362, 132409.	9.3	7

#	Article	IF	Citations
19	Economic implications of incorporating emission controls to mitigate air pollutants emitted from a modeled hydrocarbonâ€fuel biorefinery in the United States. Biofuels, Bioproducts and Biorefining, 2016, 10, 603-622.	3.7	6
20	Biorefinery upgrading of herbaceous biomass to renewable hydrocarbon fuels, part 1: Process modeling and mass balance analysis. Journal of Cleaner Production, 2022, , 132439.	9.3	4
21	Supercritical Methanol Solvolysis and Catalysis for the Conversion of Delignified Woody Biomass into Light Alcohol Gasoline Bioblendstock. Advanced Sustainable Systems, 2022, 6, .	5.3	2