Ryan Davis

List of Publications by Year in descending order

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	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
2	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
3	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
4	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
5	Reliability metrics and their management implications for open pond algae cultivation. Algal Research, 2021, 55, 102249.	4.6	24
6	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
7	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
8	Economic and environmental potentials for natural gas to enhance biomass-to-liquid fuels technologies. Green Chemistry, 2018, 20, 5358-5373.	9.0	26
9	A Unified Modeling Framework to Advance Biofuel Production from Microalgae. Environmental Science & Technology, 2018, 52, 13591-13599.	10.0	31
10	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
11	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
12	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
13	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
14	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
15	Combined algal processing: A novel integrated biorefinery process to produce algal biofuels and bioproducts. Algal Research, 2016, 19, 316-323.	4.6	184
16	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
17	Planning for Algal Systems: An Energy-Water-Food Nexus Perspective. Industrial Biotechnology, 2014, 10, 202-211.	0.8	16
18	Infrastructure associated emissions for renewable diesel production from microalgae. Algal Research, 2014, 5, 195-203.	4.6	18

#	Article	IF	Citations
19	The Energy-Water-Food Nexus Through the Lens of Algal Systems. Industrial Biotechnology, 2013, 9, 158-162.	0.8	14
20	Comparative cost analysis of algal oil production for biofuels. Energy, 2011, 36, 5169-5179.	8.8	205
21	Techno-economic analysis of autotrophic microalgae for fuel production. Applied Energy, 2011, 88, 3524-3531.	10.1	850