

# Daniele Castello

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

1,436  
citations

361296

20  
h-index

580701

25  
g-index

30  
all docs

30  
docs citations

30  
times ranked

1412  
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuous Hydrothermal Liquefaction of Biomass: A Critical Review. <i>Energies</i> , 2018, 11, 3165.	1.6	195
2	Agro-industrial waste to solid biofuel through hydrothermal carbonization. <i>Waste Management</i> , 2016, 47, 114-121.	3.7	192
3	Supercritical water gasification of biomass: Thermodynamic constraints. <i>Bioresource Technology</i> , 2011, 102, 7574-7582.	4.8	126
4	Catalytic upgrading of hydrothermal liquefaction biocrudes: Different challenges for different feedstocks. <i>Renewable Energy</i> , 2019, 141, 420-430.	4.3	123
5	Supercritical water gasification of biomass for H <sub>2</sub> production: Process design. <i>Bioresource Technology</i> , 2012, 121, 139-147.	4.8	93
6	Hydrothermal carbonization of off-specification compost: A byproduct of the organic municipal solid waste treatment. <i>Bioresource Technology</i> , 2015, 182, 217-224.	4.8	84
7	Modeling and process optimization of hydrothermal gasification for hydrogen production: A comprehensive review. <i>Journal of Supercritical Fluids</i> , 2021, 173, 105199.	1.6	60
8	Low temperature supercritical water gasification of biomass constituents: Glucose/phenol mixtures. <i>Biomass and Bioenergy</i> , 2015, 73, 84-94.	2.9	56
9	Biomass gasification in supercritical and subcritical water: The effect of the reactor material. <i>Chemical Engineering Journal</i> , 2013, 228, 535-544.	6.6	50
10	Two-stage catalytic hydrotreatment of highly nitrogenous biocrude from continuous hydrothermal liquefaction: A rational design of the stabilization stage. <i>Biomass and Bioenergy</i> , 2020, 139, 105658.	2.9	48
11	Catalytic Hydrotreatment of Microalgae Biocrude from Continuous Hydrothermal Liquefaction: Heteroatom Removal and Their Distribution in Distillation Cuts. <i>Energies</i> , 2018, 11, 3360.	1.6	45
12	Granular Activated Carbon from Grape Seeds Hydrothermal Char. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 331.	1.3	41
13	Supercritical water gasification of hydrochar. <i>Chemical Engineering Research and Design</i> , 2014, 92, 1864-1875.	2.7	38
14	Supercritical water gasification of biomass: A stoichiometric thermodynamic model. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 6771-6781.	3.8	34
15	Supercritical Water Gasification of Biomass in a Ceramic Reactor: Long-Time Batch Experiments. <i>Energies</i> , 2017, 10, 1734.	1.6	33
16	The Role of Catalysts in Biomass Hydrothermal Liquefaction and Biocrude Upgrading. <i>Processes</i> , 2022, 10, 207.	1.3	30
17	Kinetics modeling and main reaction schemes for the supercritical water gasification of methanol. <i>Journal of Supercritical Fluids</i> , 2012, 69, 64-74.	1.6	26
18	The Art of Smooth Continuous Hydroprocessing of Biocrudes Obtained from Hydrothermal Liquefaction: Hydrodemetallization and Propensity for Coke Formation. <i>Energy &amp; Fuels</i> , 2021, 35, 10611-10622.	2.5	26

#	ARTICLE	IF	CITATIONS
19	Is it possible to increase the oil yield of catalytic pyrolysis of biomass? A study using commercially-available acid and basic catalysts in ex-situ and in-situ modus. Journal of Analytical and Applied Pyrolysis, 2019, 137, 77-85.	2.6	25
20	Supercritical CO2 fractionation of omega-3 lipids from fish by-products: Plant and process design, modeling, economic feasibility. Food and Bioproducts Processing, 2014, 92, 120-132.	1.8	23
21	Co-processing of Hydrothermal Liquefaction Sewage Sludge Biocrude with a Fossil Crude Oil by Codistillation: A Detailed Characterization Study by FTICR Mass Spectrometry. Energy & Fuels, 2021, 35, 13830-13839.	2.5	18
22	Continuous co-processing of HTL bio-oil with renewable feed for drop-in biofuels production for sustainable refinery processes. Fuel, 2021, 306, 121579.	3.4	17
23	Coprocessing of pyrolysis oil in refineries. , 2018, , 293-317.		11
24	Kinetics of long chain n-paraffin dehydrogenation over a commercial Pt-Sn-K-Mg/ $\gamma$ -Al <sub>2</sub> O <sub>3</sub> catalyst: Model studies using n-dodecane. Applied Catalysis A: General, 2019, 579, 130-140.	2.2	9
25	Deminerlization of Miscanthus Biocrude Obtained from Catalytic Hydrothermal Liquefaction: Conditioning through Acid Washing. Processes, 2021, 9, 1035.	1.3	5
26	Hydrotreating of bio-crude obtained from hydrothermal liquefaction of biopulp: effects of aqueous phase recirculation on the hydrotreated oil. Sustainable Energy and Fuels, 2022, 6, 2805-2822.	2.5	5
27	Thermodynamic Analysis of the Supercritical Water Gasification of Biomass. Biofuels and Biorefineries, 2014, , 99-129.	0.5	0