Antonio Molino

List of Publications by Year
in descending order

70 papers	3,707 citations	159525 30 h-index	133188 59 g-index
71 all docs	71 docs citations	71 times ranked	4423 citing authors

#	Article	IF	Citations
1	Biomass gasification technology: The state of the art overview. Journal of Energy Chemistry, 2016, 25, 10-25.	7.1	641
2	Biofuels Production by Biomass Gasification: A Review. Energies, 2018, 11, 811.	1.6	281
3	Advances in biopolymer-based membrane preparation and applications. Journal of Membrane Science, 2018, 564, 562-586.	4.1	255
4	Biomethane production by anaerobic digestion of organic waste. Fuel, 2013, 103, 1003-1009.	3.4	182
5	Microalgae Characterization for Consolidated and New Application in Human Food, Animal Feed and Nutraceuticals. International Journal of Environmental Research and Public Health, 2018, 15, 2436.	1.2	155
6	Recent developments in supercritical fluid extraction of bioactive compounds from microalgae: Role of key parameters, technological achievements and challenges. Journal of CO2 Utilization, 2020, 36, 196-209.	3.3	145
7	Extraction of astaxanthin from microalga Haematococcus pluvialis in red phase by using generally recognized as safe solvents and accelerated extraction. Journal of Biotechnology, 2018, 283, 51-61.	1.9	126
8	Using MCDA and GIS for hazardous waste landfill siting considering land scarcity for waste disposal. Waste Management, 2014, 34, 2225-2238.	3.7	107
9	Extraction of Astaxanthin and Lutein from Microalga Haematococcus pluvialis in the Red Phase Using CO2 Supercritical Fluid Extraction Technology with Ethanol as Co-Solvent. Marine Drugs, 2018, 16, 432.	2.2	105
10	Supercritical Carbon Dioxide Extraction of Astaxanthin, Lutein, and Fatty Acids from Haematococcus pluvialis Microalgae. Marine Drugs, 2018, 16, 334.	2.2	103
11	High energy syngas production by waste tyres steam gasification in a rotary kiln pilot plant. Experimental and numerical investigations. Fuel, 2010, 89, 2721-2728.	3.4	85
12	Hydrogen from the high temperature water gas shift reaction with an industrial Fe/Cr catalyst using biomass gasification tar rich synthesis gas. Fuel Processing Technology, 2015, 132, 39-48.	3.7	72
13	Biogas upgrading via membrane process: Modelling of pilot plant scale and the end uses for the grid injection. Fuel, 2013, 107, 585-592.	3.4	68
14	Enhancing Biomass and Lutein Production From Scenedesmus almeriensis: Effect of Carbon Dioxide Concentration and Culture Medium Reuse. Frontiers in Plant Science, 2020, 11, 415.	1.7	52
15	Experimental investigations of hydrogen production from CO catalytic conversion of tar rich syngas by biomass gasification. Catalysis Today, 2016, 277, 182-191.	2.2	51
16	Bench-Scale Cultivation of Microalgae Scenedesmus almeriensis for CO2 Capture and Lutein Production. Energies, 2019, 12, 2806.	1.6	50
17	Gasification of Granulated Scrap Tires for the Production of Syngas and a Low-Cost Adsorbent for Cd(II) Removal from Wastewaters. Industrial & Engineering Chemistry Research, 2013, 52, 12154-12160.	1.8	49
18	Supercritical Fluid Extraction of Lutein from Scenedesmus almeriensis. Molecules, 2019, 24, 1324.	1.7	49

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19	Synthetic natural gas SNG production from biomass gasification â€“ Thermodynamics and processing aspects. Fuel, 2015, 139, 425-429.	3.4	48
20	Effect of steam-pretreatment combined with hydrogen peroxide on lignocellulosic agricultural wastes for bioethanol production: Analysis of derived sugars and other by-products. Journal of Energy Chemistry, 2018, 27, 535-543.	7.1	47
21	Electricity production by biomass steam gasification using a high efficiency technology and low environmental impact. Fuel, 2013, 103, 179-192.	3.4	45
22	Concerning operational aspects in supercritical water gasification of kraft black liquor. Renewable Energy, 2019, 130, 891-901.	4.3	45
23	Experimental test with polymeric membrane for the biogas purification from CO2 and H2S. Fuel, 2014, 135, 352-358.	3.4	44
24	Municipal waste leachate conversion via catalytic supercritical water gasification process. Fuel, 2017, 206, 155-161.	3.4	44
25	Selective Extraction of Ï‰-3 Fatty Acids from Nannochloropsis sp. Using Supercritical CO2 Extraction. Molecules, 2019, 24, 2406.	1.7	44
26	Waste tire recycling process for production of steam activated carbon in a pilot plant. Resources, Conservation and Recycling, 2018, 129, 102-111.	5.3	40
27	Supercritical water gasification of biomass and agro-food residues: Energy assessment from modelling approach. Renewable Energy, 2020, 150, 624-636.	4.3	38
28	The role of (bio)degradability on the management of petrochemical and bio-based plastic waste. Journal of Environmental Management, 2022, 310, 114769.	3.8	36
29	Influence of feeding ratio on steam gasification ofÂpalm shells in a rotary kiln pilot plant. Experimental and numerical investigations. Biomass and Bioenergy, 2013, 56, 423-431.	2.9	34
30	Eicosapentaenoic Acid Extraction from Nannochloropsis gaditana using Carbon Dioxide at Supercritical Conditions. Marine Drugs, 2019, 17, 132.	2.2	33
31	The influence of bio-plastics for food packaging on combined anaerobic digestion and composting treatment of organic municipal waste. Waste Management, 2022, 144, 87-97.	3.7	32
32	Conversion of methanol to hydrocarbons over zeolite ZSM-23 (MTT): exceptional effects of particle size on catalyst lifetime. Chemical Communications, 2017, 53, 6816-6819.	2.2	31
33	Extraction of Bioactive Compounds Using Supercritical Carbon Dioxide. Molecules, 2019, 24, 782.	1.7	31
34	Experimental and simulation results for biomethane production using peek hollow fiber membrane. Fuel, 2013, 112, 489-493.	3.4	30
35	History and Technology of Terra Preta Sanitation. Sustainability, 2014, 6, 1328-1345.	1.6	30
36	Implementing a composite indicator approach for prioritizing activated sludge-based wastewater treatment plants at large spatial scale. Ecological Indicators, 2016, 71, 1-18.	2.6	29

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37	Glucose gasification in super-critical water conditions for both syngas production and green chemicals with a continuous process. Renewable Energy, 2016, 91, 451-455.	4.3	26
38	Pyrolysis of automotive shredder residue in a bench scale rotary kiln. Waste Management, 2017, 65, 92-103.	3.7	26
39	Biofuel Production and Phosphorus Recovery through an Integrated Treatment of Agro-Industrial Waste. Sustainability, 2019, 11, 52.	1.6	26
40	Smart Method for Carotenoids Characterization in Haematococcus pluvialis Red Phase and Evaluation of Astaxanthin Thermal Stability. Antioxidants, 2020, 9, 422.	2.2	26
41	Enhancing the recovery of gypsum in limestone-based wet flue gas desulfurization with high energy ball milling process: A feasibility study. Chemical Engineering Research and Design, 2017, 109, 117-129.	2.7	23
42	Classification procedure of the explosion risk areas in presence of hydrogen-rich syngas: Biomass gasifier and molten carbonate fuel cell integrated plant. Fuel, 2012, 99, 245-253.	3.4	22
43	Feasibility Analysis on the Adoption of Decentralized Anaerobic Co-Digestion for the Treatment of Municipal Organic Waste with Energy Recovery in Urban Districts of Metropolitan Areas. International Journal of Environmental Research and Public Health, 2021, 18, 1820.	1.2	21
44	Experimental and theoretical investigation on the recovery of green chemicals and energy from mixed agricultural wastes by coupling anaerobic digestion and supercritical water gasification. Chemical Engineering Journal, 2019, 370, 1101-1110.	6.6	20
45	Improving the enzymatic hydrolysis of Saccharum officinarum L. bagasse by optimizing mixing in a stirred tank reactor: Quantitative analysis of biomass conversion. Fuel Processing Technology, 2016, 149, 15-22.	3.7	17
46	An Integrated Strategy for Nutraceuticals from Haematoccus pluvialis: From Cultivation to Extraction. Antioxidants, 2020, 9, 825.	2.2	17
47	Using a new incentive mechanism to improve wastewater sector performance: The case study of Italy. Journal of Environmental Management, 2014, 132, 94-106.	3.8	16
48	Glucose gasification in near critical water conditions for both syngas production and green chemicals with a continuous process. Fuel, 2014, 115, 41-45.	3.4	16
49	Low pressure biomethane production by anaerobic digestion (AD) for the smart grid injection. Fuel, 2015, 154, 319-325.	3.4	16
50	Characterization of biomasses in the southern Italy regions for their use in thermal processes. Applied Energy, 2014, 131, 180-188.	5.1	15
51	Recovery of iron rich residues from integrated steel making process by hydrated lime/molasses pressurised cold agglomeration. Journal of Cleaner Production, 2019, 233, 830-840.	4.6	15
52	Effectiveness of Dunaliella salina Extracts against Bacillus subtilis and Bacterial Plant Pathogens. Pathogens, 2020, 9, 613.	1.2	15
53	Process Innovation Via Supercritical Water Gasification to Improve the Conventional Plants Performance in Treating Highly Humid Biomass. Waste and Biomass Valorization, 2016, 7, 1289-1295.	1.8	14
54	Biofuels and Bio-based Production via Supercritical Water Gasification of Peach Scraps. Energy & Fuels, 2016, 30, 10443-10447.	2.5	13

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55	Supercritical water gasification of lignin solution produced by steam explosion process on Arundo Donax after alkaline extraction. Fuel, 2018, 221, 513-517.	3.4	13
56	Modelling of autogenerative high-pressure anaerobic digestion in a batch reactor for the production of pressurised biogas. , 2022, 15, 20.		11
57	Carbon Footprint and Total Cost Evaluation of Different Bio-Plastics Waste Treatment Strategies. Clean Technologies, 2022, 4, 570-583.	1.9	11
58	Dealing with a cluster of large centralized municipal wastewater treatment plants: A case study. Chemical Engineering Research and Design, 2018, 118, 268-278.	2.7	9
59	Fischerâ€“Tropsch synthesis of syngas to liquid hydrocarbons. , 2020, , 217-248.		9
60	Hydrogen and Oxygen Evolution in a Membrane Photoreactor Using Suspended Nanosized Au/TiO2 and Au/CeO2. ChemEngineering, 2019, 3, 5.	1.0	8
61	Pressure and time effect over semi-continuous gasification of zootechnical sludge near critical condition of water for green chemicals production. Fuel, 2014, 136, 172-176.	3.4	7
62	Synthesis of ZSM-23 (MTT) zeolites with different crystal morphology and intergrowths: effects on the catalytic performance in the conversion of methanol to hydrocarbons. Catalysis Science and Technology, 2019, 9, 6782-6792.	2.1	7
63	Overview of extraction of astaxanthin from Haematococcus pluvialis using CO2 supercritical fluid extraction technology vis-a-vis quality demands. , 2021, , 341-354.		7
64	Semi-continuous biomass gasification with water under sub critical conditions. Fuel, 2013, 112, 249-253.	3.4	6
65	Bio-based and agriculture resources for production of bioproducts. , 2020, , 263-282.		6
66	Biomethane production by biogas with polymeric membrane module. , 2016, , 465-482.		4
67	Supercritical Water Gasification of Scenedesmus Dimorphus Âµ-algae. International Journal of Chemical Reactor Engineering, 2017, 15, .	0.6	3
68	Power Production by Biomass Gasification Technologies. , 2019, , 293-318.		3
69	Aquatic Weeds: A Potential Pollutant Removing Agent from Wastewater and Polluted Soil and Valuable Biofuel Feedstock. Energy, Environment, and Sustainability, 2021, , 59-77.	0.6	1
70	Biorefinery for Agro-Industrial Waste Into Value-Added Biopolymers: Production and Applications. Clean Energy Production Technologies, 2020, , 1-19.	0.3	1