

Antonio Molino

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

3,707
citations

159585

30
h-index

133252

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. <i>Journal of Energy Chemistry</i> , 2016, 25, 10-25.	12.9	641
2	Biofuels Production by Biomass Gasification: A Review. <i>Energies</i> , 2018, 11, 811.	3.1	281
3	Advances in biopolymer-based membrane preparation and applications. <i>Journal of Membrane Science</i> , 2018, 564, 562-586.	8.2	255
4	Biomethane production by anaerobic digestion of organic waste. <i>Fuel</i> , 2013, 103, 1003-1009.	6.4	182
5	Microalgae Characterization for Consolidated and New Application in Human Food, Animal Feed and Nutraceuticals. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 2436.	2.6	155
6	Recent developments in supercritical fluid extraction of bioactive compounds from microalgae: Role of key parameters, technological achievements and challenges. <i>Journal of CO2 Utilization</i> , 2020, 36, 196-209.	6.8	145
7	Extraction of astaxanthin from microalga <i>Haematococcus pluvialis</i> in red phase by using generally recognized as safe solvents and accelerated extraction. <i>Journal of Biotechnology</i> , 2018, 283, 51-61.	3.8	126
8	Using MCDA and GIS for hazardous waste landfill siting considering land scarcity for waste disposal. <i>Waste Management</i> , 2014, 34, 2225-2238.	7.4	107
9	Extraction of Astaxanthin and Lutein from Microalga <i>Haematococcus pluvialis</i> in the Red Phase Using CO2 Supercritical Fluid Extraction Technology with Ethanol as Co-Solvent. <i>Marine Drugs</i> , 2018, 16, 432.	4.6	105
10	Supercritical Carbon Dioxide Extraction of Astaxanthin, Lutein, and Fatty Acids from <i>Haematococcus pluvialis</i> Microalgae. <i>Marine Drugs</i> , 2018, 16, 334.	4.6	103
11	High energy syngas production by waste tyres steam gasification in a rotary kiln pilot plant. Experimental and numerical investigations. <i>Fuel</i> , 2010, 89, 2721-2728.	6.4	85
12	Hydrogen from the high temperature water gas shift reaction with an industrial Fe/Cr catalyst using biomass gasification tar rich synthesis gas. <i>Fuel Processing Technology</i> , 2015, 132, 39-48.	7.2	72
13	Biogas upgrading via membrane process: Modelling of pilot plant scale and the end uses for the grid injection. <i>Fuel</i> , 2013, 107, 585-592.	6.4	68
14	Enhancing Biomass and Lutein Production From <i>Scenedesmus almeriensis</i> : Effect of Carbon Dioxide Concentration and Culture Medium Reuse. <i>Frontiers in Plant Science</i> , 2020, 11, 415.	3.6	52
15	Experimental investigations of hydrogen production from CO catalytic conversion of tar rich syngas by biomass gasification. <i>Catalysis Today</i> , 2016, 277, 182-191.	4.4	51
16	Bench-Scale Cultivation of Microalgae <i>Scenedesmus almeriensis</i> for CO2 Capture and Lutein Production. <i>Energies</i> , 2019, 12, 2806.	3.1	50
17	Gasification of Granulated Scrap Tires for the Production of Syngas and a Low-Cost Adsorbent for Cd(II) Removal from Wastewaters. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 12154-12160.	3.7	49
18	Supercritical Fluid Extraction of Lutein from <i>Scenedesmus almeriensis</i> . <i>Molecules</i> , 2019, 24, 1324.	3.8	49

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19	Synthetic natural gas SNG production from biomass gasification – Thermodynamics and processing aspects. <i>Fuel</i> , 2015, 139, 425-429.	6.4	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. <i>Journal of Energy Chemistry</i> , 2018, 27, 535-543.	12.9	47
21	Electricity production by biomass steam gasification using a high efficiency technology and low environmental impact. <i>Fuel</i> , 2013, 103, 179-192.	6.4	45
22	Concerning operational aspects in supercritical water gasification of kraft black liquor. <i>Renewable Energy</i> , 2019, 130, 891-901.	8.9	45
23	Experimental test with polymeric membrane for the biogas purification from CO ₂ and H ₂ S. <i>Fuel</i> , 2014, 135, 352-358.	6.4	44
24	Municipal waste leachate conversion via catalytic supercritical water gasification process. <i>Fuel</i> , 2017, 206, 155-161.	6.4	44
25	Selective Extraction of 1-3 Fatty Acids from <i>Nannochloropsis</i> sp. Using Supercritical CO ₂ Extraction. <i>Molecules</i> , 2019, 24, 2406.	3.8	44
26	Waste tire recycling process for production of steam activated carbon in a pilot plant. <i>Resources, Conservation and Recycling</i> , 2018, 129, 102-111.	10.8	40
27	Supercritical water gasification of biomass and agro-food residues: Energy assessment from modelling approach. <i>Renewable Energy</i> , 2020, 150, 624-636.	8.9	38
28	The role of (bio)degradability on the management of petrochemical and bio-based plastic waste. <i>Journal of Environmental Management</i> , 2022, 310, 114769.	7.8	36
29	Influence of feeding ratio on steam gasification of palm shells in a rotary kiln pilot plant. Experimental and numerical investigations. <i>Biomass and Bioenergy</i> , 2013, 56, 423-431.	5.7	34
30	Eicosapentaenoic Acid Extraction from <i>Nannochloropsis gaditana</i> using Carbon Dioxide at Supercritical Conditions. <i>Marine Drugs</i> , 2019, 17, 132.	4.6	33
31	The influence of bio-plastics for food packaging on combined anaerobic digestion and composting treatment of organic municipal waste. <i>Waste Management</i> , 2022, 144, 87-97.	7.4	32
32	Conversion of methanol to hydrocarbons over zeolite ZSM-23 (MTT): exceptional effects of particle size on catalyst lifetime. <i>Chemical Communications</i> , 2017, 53, 6816-6819.	4.1	31
33	Extraction of Bioactive Compounds Using Supercritical Carbon Dioxide. <i>Molecules</i> , 2019, 24, 782.	3.8	31
34	Experimental and simulation results for biomethane production using peek hollow fiber membrane. <i>Fuel</i> , 2013, 112, 489-493.	6.4	30
35	History and Technology of Terra Preta Sanitation. <i>Sustainability</i> , 2014, 6, 1328-1345.	3.2	30
36	Implementing a composite indicator approach for prioritizing activated sludge-based wastewater treatment plants at large spatial scale. <i>Ecological Indicators</i> , 2016, 71, 1-18.	6.3	29

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37	Glucose gasification in super-critical water conditions for both syngas production and green chemicals with a continuous process. <i>Renewable Energy</i> , 2016, 91, 451-455.	8.9	26
38	Pyrolysis of automotive shredder residue in a bench scale rotary kiln. <i>Waste Management</i> , 2017, 65, 92-103.	7.4	26
39	Biofuel Production and Phosphorus Recovery through an Integrated Treatment of Agro-Industrial Waste. <i>Sustainability</i> , 2019, 11, 52.	3.2	26
40	Smart Method for Carotenoids Characterization in <i>Haematococcus pluvialis</i> Red Phase and Evaluation of Astaxanthin Thermal Stability. <i>Antioxidants</i> , 2020, 9, 422.	5.1	26
41	Enhancing the recovery of gypsum in limestone-based wet flue gas desulfurization with high energy ball milling process: A feasibility study. <i>Chemical Engineering Research and Design</i> , 2017, 109, 117-129.	5.6	23
42	Classification procedure of the explosion risk areas in presence of hydrogen-rich syngas: Biomass gasifier and molten carbonate fuel cell integrated plant. <i>Fuel</i> , 2012, 99, 245-253.	6.4	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. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 1820.	2.6	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. <i>Chemical Engineering Journal</i> , 2019, 370, 1101-1110.	12.7	20
45	Improving the enzymatic hydrolysis of <i>Saccharum officinarum</i> L. bagasse by optimizing mixing in a stirred tank reactor: Quantitative analysis of biomass conversion. <i>Fuel Processing Technology</i> , 2016, 149, 15-22.	7.2	17
46	An Integrated Strategy for Nutraceuticals from <i>Haematococcus pluvialis</i> : From Cultivation to Extraction. <i>Antioxidants</i> , 2020, 9, 825.	5.1	17
47	Using a new incentive mechanism to improve wastewater sector performance: The case study of Italy. <i>Journal of Environmental Management</i> , 2014, 132, 94-106.	7.8	16
48	Glucose gasification in near critical water conditions for both syngas production and green chemicals with a continuous process. <i>Fuel</i> , 2014, 115, 41-45.	6.4	16
49	Low pressure biomethane production by anaerobic digestion (AD) for the smart grid injection. <i>Fuel</i> , 2015, 154, 319-325.	6.4	16
50	Characterization of biomasses in the southern Italy regions for their use in thermal processes. <i>Applied Energy</i> , 2014, 131, 180-188.	10.1	15
51	Recovery of iron rich residues from integrated steel making process by hydrated lime/molasses pressurised cold agglomeration. <i>Journal of Cleaner Production</i> , 2019, 233, 830-840.	9.3	15
52	Effectiveness of <i>Dunaliella salina</i> Extracts against <i>Bacillus subtilis</i> and Bacterial Plant Pathogens. <i>Pathogens</i> , 2020, 9, 613.	2.8	15
53	Process Innovation Via Supercritical Water Gasification to Improve the Conventional Plants Performance in Treating Highly Humid Biomass. <i>Waste and Biomass Valorization</i> , 2016, 7, 1289-1295.	3.4	14
54	Biofuels and Bio-based Production via Supercritical Water Gasification of Peach Scraps. <i>Energy & Fuels</i> , 2016, 30, 10443-10447.	5.1	13

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55	Supercritical water gasification of lignin solution produced by steam explosion process on Arundo Donax after alkaline extraction. <i>Fuel</i> , 2018, 221, 513-517.	6.4	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. <i>Clean Technologies</i> , 2022, 4, 570-583.	4.2	11
58	Dealing with a cluster of large centralized municipal wastewater treatment plants: A case study. <i>Chemical Engineering Research and Design</i> , 2018, 118, 268-278.	5.6	9
59	Fischer-Tropsch synthesis of syngas to liquid hydrocarbons. , 2020, , 217-248.		9
60	Hydrogen and Oxygen Evolution in a Membrane Photoreactor Using Suspended Nanosized Au/TiO ₂ and Au/CeO ₂ . <i>ChemEngineering</i> , 2019, 3, 5.	2.4	8
61	Pressure and time effect over semi-continuous gasification of zootechnical sludge near critical condition of water for green chemicals production. <i>Fuel</i> , 2014, 136, 172-176.	6.4	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. <i>Catalysis Science and Technology</i> , 2019, 9, 6782-6792.	4.1	7
63	Overview of extraction of astaxanthin from <i>Haematococcus pluvialis</i> using CO ₂ supercritical fluid extraction technology vis-a-vis quality demands. , 2021, , 341-354.		7
64	Semi-continuous biomass gasification with water under sub critical conditions. <i>Fuel</i> , 2013, 112, 249-253.	6.4	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 <i>Scenedesmus Dimorphus</i> μ -algae. <i>International Journal of Chemical Reactor Engineering</i> , 2017, 15, .	1.1	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. <i>Energy, Environment, and Sustainability</i> , 2021, , 59-77.	1.0	1
70	Biorefinery for Agro-Industrial Waste Into Value-Added Biopolymers: Production and Applications. <i>Clean Energy Production Technologies</i> , 2020, , 1-19.	0.5	1