

Antonio Molino

List of Publications by Year in descending order

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70
papers

3,707
citations

159525

30
h-index

133188

59
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71
all docs

71
docs citations

71
times ranked

4423
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling of autogenerative high-pressure anaerobic digestion in a batch reactor for the production of pressurised biogas. , 2022, 15, 20.		11
2	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
3	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
4	Carbon Footprint and Total Cost Evaluation of Different Bio-Plastics Waste Treatment Strategies. Clean Technologies, 2022, 4, 570-583.	1.9	11
5	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
6	Overview of extraction of astaxanthin from Haematococcus pluvialis using CO2 supercritical fluid extraction technology vis-a-vis quality demands. , 2021, , 341-354.		7
7	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
8	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
9	Fischer-Tropsch synthesis of syngas to liquid hydrocarbons. , 2020, , 217-248.		9
10	Supercritical water gasification of biomass and agro-food residues: Energy assessment from modelling approach. Renewable Energy, 2020, 150, 624-636.	4.3	38
11	Effectiveness of Dunaliella salina Extracts against Bacillus subtilis and Bacterial Plant Pathogens. Pathogens, 2020, 9, 613.	1.2	15
12	An Integrated Strategy for Nutraceuticals from Haematococcus pluvialis: From Cultivation to Extraction. Antioxidants, 2020, 9, 825.	2.2	17
13	Smart Method for Carotenoids Characterization in Haematococcus pluvialis Red Phase and Evaluation of Astaxanthin Thermal Stability. Antioxidants, 2020, 9, 422.	2.2	26
14	Bio-based and agriculture resources for production of bioproducts. , 2020, , 263-282.		6
15	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
16	Biorefinery for Agro-Industrial Waste Into Value-Added Biopolymers: Production and Applications. Clean Energy Production Technologies, 2020, , 1-19.	0.3	1
17	Concerning operational aspects in supercritical water gasification of kraft black liquor. Renewable Energy, 2019, 130, 891-901.	4.3	45
18	Selective Extraction of γ -3 Fatty Acids from Nannochloropsis sp. Using Supercritical CO2 Extraction. Molecules, 2019, 24, 2406.	1.7	44

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19	Bench-Scale Cultivation of Microalgae <i>Scenedesmus almeriensis</i> for CO ₂ Capture and Lutein Production. <i>Energies</i> , 2019, 12, 2806.	1.6	50
20	Biofuel Production and Phosphorus Recovery through an Integrated Treatment of Agro-Industrial Waste. <i>Sustainability</i> , 2019, 11, 52.	1.6	26
21	Hydrogen and Oxygen Evolution in a Membrane Photoreactor Using Suspended Nanosized Au/TiO ₂ and Au/CeO ₂ . <i>ChemEngineering</i> , 2019, 3, 5.	1.0	8
22	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.	4.6	15
23	Supercritical Fluid Extraction of Lutein from <i>Scenedesmus almeriensis</i> . <i>Molecules</i> , 2019, 24, 1324.	1.7	49
24	Eicosapentaenoic Acid Extraction from <i>Nannochloropsis gaditana</i> using Carbon Dioxide at Supercritical Conditions. <i>Marine Drugs</i> , 2019, 17, 132.	2.2	33
25	Extraction of Bioactive Compounds Using Supercritical Carbon Dioxide. <i>Molecules</i> , 2019, 24, 782.	1.7	31
26	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.	6.6	20
27	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.	2.1	7
28	Power Production by Biomass Gasification Technologies. , 2019, , 293-318.		3
29	Supercritical water gasification of lignin solution produced by steam explosion process on <i>Arundo Donax</i> after alkaline extraction. <i>Fuel</i> , 2018, 221, 513-517.	3.4	13
30	Waste tire recycling process for production of steam activated carbon in a pilot plant. <i>Resources, Conservation and Recycling</i> , 2018, 129, 102-111.	5.3	40
31	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.	7.1	47
32	Extraction of Astaxanthin and Lutein from Microalga <i>Haematococcus pluvialis</i> in the Red Phase Using CO ₂ Supercritical Fluid Extraction Technology with Ethanol as Co-Solvent. <i>Marine Drugs</i> , 2018, 16, 432.	2.2	105
33	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.	1.2	155
34	Supercritical Carbon Dioxide Extraction of Astaxanthin, Lutein, and Fatty Acids from <i>Haematococcus pluvialis</i> Microalgae. <i>Marine Drugs</i> , 2018, 16, 334.	2.2	103
35	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.	2.7	9
36	Advances in biopolymer-based membrane preparation and applications. <i>Journal of Membrane Science</i> , 2018, 564, 562-586.	4.1	255

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37	Biofuels Production by Biomass Gasification: A Review. <i>Energies</i> , 2018, 11, 811.	1.6	281
38	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.	1.9	126
39	Pyrolysis of automotive shredder residue in a bench scale rotary kiln. <i>Waste Management</i> , 2017, 65, 92-103.	3.7	26
40	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.	2.2	31
41	Supercritical Water Gasification of <i>Scenedesmus Dimorphus</i> μ -algae. <i>International Journal of Chemical Reactor Engineering</i> , 2017, 15, .	0.6	3
42	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.	2.7	23
43	Municipal waste leachate conversion via catalytic supercritical water gasification process. <i>Fuel</i> , 2017, 206, 155-161.	3.4	44
44	Biomethane production by biogas with polymeric membrane module. , 2016, , 465-482.		4
45	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.	2.6	29
46	Biofuels and Bio-based Production via Supercritical Water Gasification of Peach Scraps. <i>Energy & Fuels</i> , 2016, 30, 10443-10447.	2.5	13
47	Experimental investigations of hydrogen production from CO catalytic conversion of tar rich syngas by biomass gasification. <i>Catalysis Today</i> , 2016, 277, 182-191.	2.2	51
48	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.	3.7	17
49	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.	1.8	14
50	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.	4.3	26
51	Biomass gasification technology: The state of the art overview. <i>Journal of Energy Chemistry</i> , 2016, 25, 10-25.	7.1	641
52	Low pressure biomethane production by anaerobic digestion (AD) for the smart grid injection. <i>Fuel</i> , 2015, 154, 319-325.	3.4	16
53	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.	3.7	72
54	Synthetic natural gas SNG production from biomass gasification " Thermodynamics and processing aspects. <i>Fuel</i> , 2015, 139, 425-429.	3.4	48

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55	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.	3.8	16
56	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.	3.4	16
57	Experimental test with polymeric membrane for the biogas purification from CO ₂ and H ₂ S. <i>Fuel</i> , 2014, 135, 352-358.	3.4	44
58	Characterization of biomasses in the southern Italy regions for their use in thermal processes. <i>Applied Energy</i> , 2014, 131, 180-188.	5.1	15
59	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.	3.4	7
60	Using MCDA and GIS for hazardous waste landfill siting considering land scarcity for waste disposal. <i>Waste Management</i> , 2014, 34, 2225-2238.	3.7	107
61	History and Technology of Terra Preta Sanitation. <i>Sustainability</i> , 2014, 6, 1328-1345.	1.6	30
62	Semi-continuous biomass gasification with water under sub critical conditions. <i>Fuel</i> , 2013, 112, 249-253.	3.4	6
63	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.	2.9	34
64	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.	3.4	68
65	Experimental and simulation results for biomethane production using peek hollow fiber membrane. <i>Fuel</i> , 2013, 112, 489-493.	3.4	30
66	Electricity production by biomass steam gasification using a high efficiency technology and low environmental impact. <i>Fuel</i> , 2013, 103, 179-192.	3.4	45
67	Biomethane production by anaerobic digestion of organic waste. <i>Fuel</i> , 2013, 103, 1003-1009.	3.4	182
68	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.	1.8	49
69	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.	3.4	22
70	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.	3.4	85