

# Cataldo De Blasio

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

548  
citations

758635

12  
h-index

676716

22  
g-index

63  
all docs

63  
docs citations

63  
times ranked

606  
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel biorefinery integration concept for lignocellulosic biomass. <i>Energy Conversion and Management</i> , 2017, 149, 974-987.	4.4	122
2	A study on supercritical water gasification of black liquor conducted in stainless steel and nickel-chromium-molybdenum reactors. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 2664-2678.	1.6	47
3	Concerning operational aspects in supercritical water gasification of kraft black liquor. <i>Renewable Energy</i> , 2019, 130, 891-901.	4.3	45
4	Techno-economic feasibility of supercritical water gasification of black liquor. <i>Energy</i> , 2019, 189, 116284.	4.5	39
5	Alternative energy valorization routes of black liquor by stepwise supercritical water gasification: Effect of process parameters on hydrogen yield and energy efficiency. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110146.	8.2	25
6	Liquid mixing dynamics in slurry stirred tanks based on electrical resistance tomography. <i>Chemical Engineering Science</i> , 2016, 152, 478-487.	1.9	24
7	Analysis of operational issues in hydrothermal liquefaction and supercritical water gasification processes: a review. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 12367-12394.	2.9	22
8	Use of carbonate rocks for flue gas desulfurization: Reactive dissolution of limestone particles. <i>Applied Energy</i> , 2012, 90, 175-181.	5.1	20
9	Modeling limestone reactivity and sizing the dissolution tank in wet flue gas desulfurization scrubbers. <i>Environmental Progress and Sustainable Energy</i> , 2013, 32, 663-672.	1.3	20
10	The BioSCWG Project: Understanding the Trade-Offs in the Process and Thermal Design of Hydrogen and Synthetic Natural Gas Production. <i>Energies</i> , 2016, 9, 838.	1.6	17
11	Ultrasonic enhanced limestone dissolution: Experimental and mathematical modeling. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 118, 26-36.	1.8	16
12	Optimization of a Wet Flue Gas Desulfurization Scrubber through Mathematical Modeling of Limestone Dissolution Experiments. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 9783-9797.	1.8	15
13	Fundamentals of Biofuels Engineering and Technology. <i>Green Energy and Technology</i> , 2019, , .	0.4	13
14	Revisiting the dissolution kinetics of limestone - experimental analysis and modeling. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 1517-1531.	1.6	11
15	Employing a step-wise titration method under semi-slow reaction regime for evaluating the reactivity of limestone and dolomite in acidic environment. <i>Minerals Engineering</i> , 2016, 86, 43-58.	1.8	11
16	A Cleaner Delignification of Urban Leaf Waste Biomass for Bioethanol Production, Optimised by Experimental Design. <i>Processes</i> , 2022, 10, 943.	1.3	11
17	On modeling the dissolution of sedimentary rocks in acidic environments. An overview of selected mathematical methods with presentation of a case study. <i>Journal of Mathematical Chemistry</i> , 2013, 51, 2120-2143.	0.7	9
18	Law of Mass Action Based Kinetic Approach for the Modelling of Parallel Mass Transfer Limited Reactions: Application to Metallurgical Systems. <i>ISIJ International</i> , 2016, 56, 1543-1552.	0.6	8

#	ARTICLE	IF	CITATIONS
19	Thermogravimetric Analysis (TGA). <i>Green Energy and Technology</i> , 2019, , 91-102.	0.4	7
20	A Novel Approach for Numerical Modeling of the CAS-OB Process: Process Model for the Heat-Up Stage. <i>ISIJ International</i> , 2014, 54, 2263-2272.	0.6	7
21	Implications on Feedstock Processing and Safety Issues for Semi-Batch Operations in Supercritical Water Gasification of Biomass. <i>Energies</i> , 2021, 14, 2863.	1.6	6
22	Industrially relevant Radioactive Particle Tracking study on the motion of adsorbent granules suspended in a pilot-scale water-air three-phase fluidized bed. <i>Chemical Engineering Research and Design</i> , 2021, 173, 305-316.	2.7	6
23	Modeling the Hydrodynamics and Mass-Transfer Phenomena for Sedimentary Rocks Used for Flue Gas Desulfurization. The Effect of Temperature.. <i>Computer Aided Chemical Engineering</i> , 2009, 27, 411-416.	0.3	5
24	Validation of CFD-DEM simulation of a liquid-solid fluidized bed by dynamic analysis of time series. <i>Particuology</i> , 2022, 68, 75-87.	2.0	5
25	Processes of Bioethanol Production. <i>Green Energy and Technology</i> , 2019, , 233-252.	0.4	4
26	Integrated Biorefinery Concepts. <i>Green Energy and Technology</i> , 2019, , 155-171.	0.4	4
27	Vapor pressure and boiling point elevation of black liquor. <i>Nordic Pulp and Paper Research Journal</i> , 2015, 30, 411-416.	0.3	3
28	Ultrasonic Power to Enhance Limestone Dissolution in the Wet Flue Gas Desulfurization Process. Modeling and Results from Stepwise Titration Experiments. <i>ChemEngineering</i> , 2018, 2, 53.	1.0	3
29	Notions of Biomass Gasification. <i>Green Energy and Technology</i> , 2019, , 307-334.	0.4	3
30	Modeling of Limestone Dissolution for Flue Gas Desulfurization with Novel Implications. <i>Energies</i> , 2020, 13, 6164.	1.6	3
31	Evaluating the reactivity of limestone utilized in Flue Gas Desulfurization. An application of the Danckwerts theory for particles reacting in acidic environments and agitated vessels with Archimedes number less than 40. <i>Computer Aided Chemical Engineering</i> , 2011, 29, 1225-1229.	0.3	2
32	Limestone dissolution study for Wet Flue Gas Desulfurization under turbulent regimes above critical suspension speed. <i>Computer Aided Chemical Engineering</i> , 2013, 32, 301-306.	0.3	2
33	A Model of the CAS-OB Process for Online Applications. <i>IFAC-PapersOnLine</i> , 2015, 48, 6-11.	0.5	2
34	Biodiesel. <i>Green Energy and Technology</i> , 2019, , 253-265.	0.4	2
35	Simulating the change in shape factor for solid particles used in flue gas desulfurization and reacting in stirred batch systems. A mathematical model.. <i>Computer Aided Chemical Engineering</i> , 2009, , 821-826.	0.3	1
36	Thermodynamics in Chemical Reactions Engineering. <i>Green Energy and Technology</i> , 2019, , 365-374.	0.4	1

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37	Fischer-Tropsch (FT) Synthesis to Biofuels (BtL Process). Green Energy and Technology, 2019, , 287-306.	0.4	1
38	Modeling the dissolution of carbonate minerals utilized in Flue Gas Desulfurization scrubbers. A stepwise titration technique applied to low Grashof-Reynolds ratio.. Computer Aided Chemical Engineering, 2012, 31, 465-469.	0.3	1
39	Comparison of the Fluidized State Stability from Radioactive Particle Tracking Results. ChemEngineering, 2021, 5, 65.	1.0	1
40	Self-organizing maps for efficient classification of flow regimes from gamma densitometry time series in three-phase fluidized beds. Measurement Science and Technology, 0, , .	1.4	1
41	Mathematical modeling of limestone dissolution in batch stirred tank reactors in presence of a diluted strong acid. Computer Aided Chemical Engineering, 2008, , 1095-1100.	0.3	0
42	Some Chemical Analyses in Biodiesel Production and Biofuel Characteristics. Green Energy and Technology, 2019, , 267-285.	0.4	0
43	Enzyme Kinetics. Green Energy and Technology, 2019, , 209-220.	0.4	0
44	Some Parameters and Properties of Biomass Fuels. Green Energy and Technology, 2019, , 375-395.	0.4	0
45	Some Data on Oxidation and Reduction States and Half-Cell Reactions. Green Energy and Technology, 2019, , 405-410.	0.4	0
46	Redox Potential and Galvanic Cells. Green Energy and Technology, 2019, , 31-45.	0.4	0
47	Electronegativity and Microbial Catalysis. Green Energy and Technology, 2019, , 173-187.	0.4	0
48	Balances on Microbial Fermentation. Green Energy and Technology, 2019, , 221-231.	0.4	0
49	Light Harvesting and Biomass Generation. Green Energy and Technology, 2019, , 13-30.	0.4	0
50	Main Reactors Configurations. Green Energy and Technology, 2019, , 189-207.	0.4	0
51	Some Considerations and Statistical Derivations for the Concentration Profile and Gaussian Curve. Green Energy and Technology, 2019, , 141-143.	0.4	0
52	Introduction to Entropy and Second Law. Green Energy and Technology, 2019, , 353-364.	0.4	0
53	Work from Light. Green Energy and Technology, 2019, , 57-69.	0.4	0
54	Overview of the Main Mechanisms of Photosynthesis. Green Energy and Technology, 2019, , 47-56.	0.4	0

#	ARTICLE	IF	CITATIONS
55	Preliminary Concepts. Green Energy and Technology, 2019, , 337-352.	0.4	0
56	An Assessment of Operating Conditions for Supercritical Water Gasification and Safety Issues. , 0, , .		0