Cataldo De Blasio

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7510678/publications.pdf

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56	548	758635	676716
papers	citations	12	22
		h-index	g-index

63	63	63	606
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Analysis of operational issues in hydrothermal liquefaction and supercritical water gasification processes: a review. Biomass Conversion and Biorefinery, 2023, 13, 12367-12394.	2.9	22
2	Validation of CFD-DEM simulation of a liquidâ€“solid fluidized bed by dynamic analysis of time series. Particuology, 2022, 68, 75-87.	2.0	5
3	A Cleaner Delignification of Urban Leaf Waste Biomass for Bioethanol Production, Optimised by Experimental Design. Processes, 2022, 10, 943.	1.3	11
4	Implications on Feedstock Processing and Safety Issues for Semi-Batch Operations in Supercritical Water Gasification of Biomass. Energies, 2021, 14, 2863.	1.6	6
5	Industrially relevant Radioactive Particle Tracking study on the motion of adsorbent granules suspended in a pilot-scale waterâ€“air three-phase fluidized bed. Chemical Engineering Research and Design, 2021, 173, 305-316.	2.7	6
6	Comparison of the Fluidized State Stability from Radioactive Particle Tracking Results. ChemEngineering, 2021, 5, 65.	1.0	1
7	Modeling of Limestone Dissolution for Flue Gas Desulfurization with Novel Implications. Energies, 2020, 13, 6164.	1.6	3
8	Alternative energy valorization routes of black liquor by stepwise supercritical water gasification: Effect of process parameters on hydrogen yield and energy efficiency. Renewable and Sustainable Energy Reviews, 2020, 134, 110146.	8.2	25
9	Concerning operational aspects in supercritical water gasification of kraft black liquor. Renewable Energy, 2019, 130, 891-901.	4.3	45
10	Some Chemical Analyses in Biodiesel Production and Biofuel Characteristics. Green Energy and Technology, 2019, , 267-285.	0.4	0
11	Enzyme Kinetics. Green Energy and Technology, 2019, , 209-220.	0.4	0
12	Some Parameters and Properties of Biomass Fuels. Green Energy and Technology, 2019, , 375-395.	0.4	0
13	Thermodynamics in Chemical Reactions Engineering. Green Energy and Technology, 2019, , 365-374.	0.4	1
14	Notions of Biomass Gasification. Green Energy and Technology, 2019, , 307-334.	0.4	3
15	Some Data on Oxidation and Reduction States and Half-Cell Reactions. Green Energy and Technology, 2019, , 405-410.	0.4	0
16	Redox Potential and Galvanic Cells. Green Energy and Technology, 2019, , 31-45.	0.4	0
17	Thermogravimetric Analysis (TGA). Green Energy and Technology, 2019, , 91-102.	0.4	7
18	Fischerâ€“Tropsch (FT) Synthesis to Biofuels (BtL Process). Green Energy and Technology, 2019, , 287-306.	0.4	1

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19	Electronegativity and Microbial Catalysis. Green Energy and Technology, 2019, , 173-187.	0.4	0
20	Balances on Microbial Fermentation. Green Energy and Technology, 2019, , 221-231.	0.4	0
21	Biodiesel. Green Energy and Technology, 2019, , 253-265.	0.4	2
22	Fundamentals of Biofuels Engineering and Technology. Green Energy and Technology, 2019, , .	0.4	13
23	Processes of Bioethanol Production. Green Energy and Technology, 2019, , 233-252.	0.4	4
24	Techno-economic feasibility of supercritical water gasification of black liquor. Energy, 2019, 189, 116284.	4.5	39
25	Integrated Biorefinery Concepts. Green Energy and Technology, 2019, , 155-171.	0.4	4
26	Light Harvesting and Biomass Generation. Green Energy and Technology, 2019, , 13-30.	0.4	0
27	Main Reactors Configurations. Green Energy and Technology, 2019, , 189-207.	0.4	0
28	Some Considerations and Statistical Derivations for the Concentration Profile and Gaussian Curve. Green Energy and Technology, 2019, , 141-143.	0.4	0
29	Introduction to Entropy and Second Law. Green Energy and Technology, 2019, , 353-364.	0.4	0
30	Work from Light. Green Energy and Technology, 2019, , 57-69.	0.4	0
31	Overview of the Main Mechanisms of Photosynthesis. Green Energy and Technology, 2019, , 47-56.	0.4	0
32	Preliminary Concepts. Green Energy and Technology, 2019, , 337-352.	0.4	0
33	Ultrasonic Power to Enhance Limestone Dissolution in the Wet Flue Gas Desulfurization Process. Modeling and Results from Stepwise Titration Experiments. ChemEngineering, 2018, 2, 53.	1.0	3
34	A novel biorefinery integration concept for lignocellulosic biomass. Energy Conversion and Management, 2017, 149, 974-987.	4.4	122
35	Ultrasonic enhanced limestone dissolution: Experimental and mathematical modeling. Chemical Engineering and Processing: Process Intensification, 2017, 118, 26-36.	1.8	16
36	Law of Mass Action Based Kinetic Approach for the Modelling of Parallel Mass Transfer Limited Reactions: Application to Metallurgical Systems. ISIJ International, 2016, 56, 1543-1552.	0.6	8

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37	The BioSCWG Project: Understanding the Trade-Offs in the Process and Thermal Design of Hydrogen and Synthetic Natural Gas Production. Energies, 2016, 9, 838.	1.6	17
38	Revisiting the dissolution kinetics of limestone - experimental analysis and modeling. Journal of Chemical Technology and Biotechnology, 2016, 91, 1517-1531.	1.6	11
39	A study on supercritical water gasification ofÂblack liquor conducted in stainless steel andÂnickel-chromium-molybdenum reactors. Journal of Chemical Technology and Biotechnology, 2016, 91, 2664-2678.	1.6	47
40	Liquid mixing dynamics in slurry stirred tanks based on electrical resistance tomography. Chemical Engineering Science, 2016, 152, 478-487.	1.9	24
41	Employing a step-wise titration method under semi-slow reaction regime for evaluating the reactivity of limestone and dolomite in acidic environment. Minerals Engineering, 2016, 86, 43-58.	1.8	11
42	A Model of the CAS-OB Process for Online Applications. IFAC-PapersOnLine, 2015, 48, 6-11.	0.5	2
43	Vapor pressure and boiling point elevation of black liquor. Nordic Pulp and Paper Research Journal, 2015, 30, 411-416.	0.3	3
44	Optimization of a Wet Flue Gas Desulfurization Scrubber through Mathematical Modeling of Limestone Dissolution Experiments. Industrial & Engineering Chemistry Research, 2015, 54, 9783-9797.	1.8	15
45	A Novel Approach for Numerical Modeling of the CAS-OB Process: Process Model for the Heat-Up Stage. ISIJ International, 2014, 54, 2263-2272.	0.6	7
46	On modeling the dissolution of sedimentary rocks in acidic environments. An overview of selected mathematical methods with presentation of a case study. Journal of Mathematical Chemistry, 2013, 51, 2120-2143.	0.7	9
47	Modeling limestone reactivity and sizing the dissolution tank in wet flue gas desulfurization scrubbers. Environmental Progress and Sustainable Energy, 2013, 32, 663-672.	1.3	20
48	Limestone dissolution study for Wet Flue Gas Desulfurization under turbulent regimes above critical suspension speed. Computer Aided Chemical Engineering, 2013, 32, 301-306.	0.3	2
49	Use of carbonate rocks for flue gas desulfurization: Reactive dissolution of limestone particles. Applied Energy, 2012, 90, 175-181.	5.1	20
50	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
51	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. Computer Aided Chemical Engineering, 2011, 29, 1225-1229.	0.3	2
52	Simulating the change in shape factor for solid particles used in flue gas desulfurization and reacting in stirred batch systems. A mathematical model.. Computer Aided Chemical Engineering, 2009, , 821-826.	0.3	1
53	Modeling the Hydrodynamics and Mass-Transfer Phenomena for Sedimentary Rocks Used for Flue Gas Desulfurization. The Effect of Temperature.. Computer Aided Chemical Engineering, 2009, 27, 411-416.	0.3	5
54	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

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55	An Assessment of Operating Conditions for Supercritical Water Gasification and Safety Issues. , 0, , .		0
56	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