

Kawnish Kirtania

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

754
citations

567281

15
h-index

526287

27
g-index

38
all docs

38
docs citations

38
times ranked

932
citing authors

#	ARTICLE	IF	CITATIONS
1	Pyrolysis kinetics and reactivity of algae-coal blends. <i>Biomass and Bioenergy</i> , 2013, 55, 291-298.	5.7	70
2	Kinetic study of catalytic gasification of wood char impregnated with different alkali salts. <i>Energy</i> , 2017, 118, 1055-1065.	8.8	64
3	Reduction of Tar and Soot Formation from Entrained-Flow Gasification of Woody Biomass by Alkali Impregnation. <i>Energy & Fuels</i> , 2017, 31, 5104-5110.	5.1	59
4	Application of the distributed activation energy model to the kinetic study of pyrolysis of the fresh water algae <i>Chlorococcum humicola</i> . <i>Bioresource Technology</i> , 2012, 107, 476-481.	9.6	55
5	In situ synchrotron IR study relating temperature and heating rate to surface functional group changes in biomass. <i>Bioresource Technology</i> , 2014, 151, 36-42.	9.6	48
6	Techno-economic assessment of catalytic gasification of biomass powders for methanol production. <i>Bioresource Technology</i> , 2017, 237, 167-177.	9.6	46
7	Comparison of CO ₂ and steam gasification reactivity of algal and woody biomass chars. <i>Fuel Processing Technology</i> , 2014, 117, 44-52.	7.2	45
8	Performance of a Pilot-Scale Entrained-Flow Black Liquor Gasifier. <i>Energy & Fuels</i> , 2016, 30, 3175-3185.	5.1	44
9	Fuel Particle Conversion of Pulverized Biomass during Pyrolysis in an Entrained Flow Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 13973-13979.	3.7	40
10	Thermogravimetric analysis and kinetic characterization of lipid-extracted <i>Tetraselmis suecica</i> and <i>Chlorella sp.</i> . <i>Algal Research</i> , 2014, 6, 39-45.	4.6	39
11	CO ₂ Gasification Kinetics of Algal and Woody Char Procured under Different Pyrolysis Conditions and Heating Rates. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 365-373.	6.7	32
12	Co-gasification of black liquor and pyrolysis oil at high temperature: Part 2. Fuel conversion. <i>Fuel</i> , 2017, 197, 240-247.	6.4	23
13	Co-gasification of black liquor and pyrolysis oil at high temperature: Part 1. Fate of alkali elements. <i>Fuel</i> , 2017, 202, 46-55.	6.4	22
14	A novel dead time compensator for stable processes with long dead times. <i>Journal of Process Control</i> , 2012, 22, 612-625.	3.3	18
15	Coupling of a distributed activation energy model with particle simulation for entrained flow pyrolysis of biomass. <i>Fuel Processing Technology</i> , 2015, 137, 131-138.	7.2	15
16	Excess Methanol Recovery in Biodiesel Production Process Using a Distillation Column: A Simulation Study. <i>Chemical Engineering Research Bulletin</i> , 2009, 13, .	0.2	14
17	Gasification of Char Derived from Catalytic Hydrothermal Liquefaction of Pine Sawdust under a CO ₂ Atmosphere. <i>Energy & Fuels</i> , 2018, 32, 5999-6007.	5.1	14
18	Thermochemical Conversion Processes for Waste Biorefinery. , 2018, , 129-156.		14

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19	A study of black liquor and pyrolysis oil co-gasification in pilot scale. Biomass Conversion and Biorefinery, 2018, 8, 113-124.	4.6	13
20	Preliminary understanding on the ash behavior of algae during co-gasification in an entrained flow reactor. Fuel Processing Technology, 2018, 175, 26-34.	7.2	12
21	Fate of nutrients during hydrothermal carbonization of biogenic municipal waste. Biomass Conversion and Biorefinery, 2022, 12, 71-80.	4.6	10
22	Multiscale Reactor Network Simulation of an Entrained Flow Biomass Gasifier: Model Description and Validation. Energy Technology, 2017, 5, 1484-1494.	3.8	9
23	Alkali-catalyzed hydrothermal treatment of sawdust for production of a potential feedstock for catalytic gasification. Applied Energy, 2018, 231, 594-599.	10.1	8
24	Hydrothermal carbonization of biogenic municipal waste for biofuel production. Biomass Conversion and Biorefinery, 2022, 12, 163-171.	4.6	8
25	CO ₂ gasification behavior of biomass chars in an entrained flow reactor. Biomass Conversion and Biorefinery, 2016, 6, 49-59.	4.6	7
26	Catalytic hydrothermal liquefaction of biomass with K ₂ CO ₃ for production of gasification feedstock. Biofuels, 2021, 12, 149-160.	2.4	7
27	Cogasification of Crude Glycerol and Black Liquor Blends: Char Morphology and Gasification Kinetics. Energy Technology, 2017, 5, 1272-1281.	3.8	6
28	A two-degree-of-freedom dead time compensator for stable processes with long dead time. , 2010, , .		4
29	Condensate Fractionation Column: Design Variation Study by Simulation. Journal of Chemical Engineering, 1970, , 65-70.	0.1	2
30	Parametric Study on Co-Feeding of Municipal Solid Waste and Coal in an IGCC Power Plant with Pre-Combustion Carbon Capture. Chemical Engineering Research Bulletin, 0, , 37-42.	0.2	2
31	An Assessment of Gasification of Lipid-Extracted Algae by Thermodynamic Simulation. Journal of Chemical Engineering, 2017, 30, 59-63.	0.1	2
32	Life-Cycle Impact Assessment of Fossil Power Plants with and without Co ₂ Capture Evaluating the Possibility of Co ₂ Utilization. Chemical Engineering Research Bulletin, 0, , 88-93.	0.2	1
33	Modeling Thermodynamic and Kinetic Simulation of Hydrogen Production from Dry Reforming of Natural Gas. , 2021, , .		1
34	Preparation of Rice Based ORS by Solution Method. Chemical Engineering Research Bulletin, 2009, 13, .	0.2	0
35	Multiscale modeling approaches for waste biorefinery. , 2020, , 425-453.		0
36	Biochar Production from Waste Biomass using Modular Pyrolyzer for Soil Amendment. Chemical Engineering Research Bulletin, 0, , 14-19.	0.2	0

#	ARTICLE	IF	CITATIONS
37	Assessment of Biochar from Chicken Litter and Sawdust for Soil Amendment. , 2020, , .		0
38	Development of a Modular Simulation Tool for Thermochemical Equilibrium Calculation. , 2021, , .		0