Mohammad Asadullah

List of Publications by Year
in descending order

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45 papers	3,766 citations	147801 31 h-index	243625 44 g-index
45 all docs	45 docs citations	45 times ranked	3281 citing authors

#	Article	IF	Citations
1	Barriers of commercial power generation using biomass gasification gas: A review. Renewable and Sustainable Energy Reviews, 2014, 29, 201-215.	16.4	406
2	Biomass gasification gas cleaning for downstream applications: A comparative critical review. Renewable and Sustainable Energy Reviews, 2014, 40, 118-132.	16.4	276
3	Biomass Gasification to Hydrogen and Syngas at Low Temperature: Novel Catalytic System Using Fluidized-Bed Reactor. Journal of Catalysis, 2002, 208, 255-259.	6.2	224
4	Catalytic reforming of tar during gasification. Part II. Char as a catalyst or as a catalyst support for tar reforming. Fuel, 2011, 90, 2545-2552.	6.4	212
5	Syngas production by biomass gasification using Rh/CeO2/SiO2 catalysts and fluidized bed reactor. Catalysis Today, 2004, 89, 389-403.	4.4	206
6	Catalytic reforming of tar during gasification. Part I. Steam reforming of biomass tar using ilmenite as a catalyst. Fuel, 2011, 90, 1847-1854.	6.4	162
7	A review on carbon dioxide mineral carbonation through pH-swing process. Chemical Engineering Journal, 2015, 279, 615-630.	12.7	162
8	Catalytic performance of Ni/CeO2/Al2O3 modified with noble metals in steam gasification of biomass. Catalysis Today, 2008, 131, 146-155.	4.4	122
9	Production and detailed characterization of bio-oil from fast pyrolysis of palm kernel shell. Biomass and Bioenergy, 2013, 59, 316-324.	5.7	120
10	Energy Efficient Production of Hydrogen and Syngas from Biomass:â€‰ Development of Low-Temperature Catalytic Process for Cellulose Gasification. Environmental Science & Technology, 2002, 36, 4476-4481.	10.0	119
11	An advanced biomass gasification technology with integrated catalytic hot gas cleaning. Part II: Tar reforming using char as a catalyst or as a catalyst support. Fuel, 2013, 112, 646-653.	6.4	108
12	A comparison of Rh/CeO2/SiO2 catalysts with steam reforming catalysts, dolomite and inert materials as bed materials in low throughput fluidized bed gasification systems. Biomass and Bioenergy, 2004, 26, 269-279.	5.7	106
13	Gasification of different biomasses in a dual-bed gasifier system combined with novel catalysts with high energy efficiency. Applied Catalysis A: General, 2004, 267, 95-102.	4.3	103
14	Optimization of palm kernel shell torrefaction to produce energy densified bio-coal. Energy Conversion and Management, 2014, 88, 1086-1093.	9.2	101
15	Demonstration of real biomass gasification drastically promoted by effective catalyst. Applied Catalysis A: General, 2003, 246, 103-116.	4.3	100
16	Preparation of microporous activated carbon and its modification for arsenic removal from water. Journal of Industrial and Engineering Chemistry, 2014, 20, 887-896.	5.8	98
17	Chemical and structural evaluation of activated carbon prepared from jute sticks for Brilliant Green dye removal from aqueous solution. Journal of Hazardous Materials, 2010, 174, 437-443.	12.4	95
18	Promoting effect of Pt addition to Ni/CeO2/Al2O3 catalyst for steam gasification of biomass. Catalysis Communications, 2008, 9, 195-201.	3.3	93

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19	A novel catalytic process for cellulose gasification to synthesis gas. Catalysis Communications, 2001, 2, 63-68.	3.3	92
20	Catalytic Performance of Rh/CeO2 in the Gasification of Cellulose to Synthesis Gas at Low Temperature. Industrial & Engineering Chemistry Research, 2001, 40, 5894-5900.	3.7	82
21	Catalyst development for the gasification of biomass in the dual-bed gasifier. Applied Catalysis A: General, 2003, 255, 169-180.	4.3	79
22	Catalyst performance in reforming of tar derived from biomass over noble metal catalysts. Green Chemistry, 2003, 5, 399.	9.0	77
23	Direct carbonation of red gypsum to produce solid carbonates. Fuel Processing Technology, 2014, 126, 429-434.	7.2	71
24	Catalytic reforming of tar during gasification. Part IV. Changes in the structure of char in the char-supported iron catalyst during reforming. Fuel, 2013, 106, 858-863.	6.4	57
25	Mineral carbonation of red gypsum via pH-swing process: Effect of CO2 pressure on the efficiency and products characteristics. Chemical Engineering Journal, 2015, 264, 425-436.	12.7	56
26	An advanced biomass gasification technology with integrated catalytic hot gas cleaning. Fuel, 2013, 108, 409-416.	6.4	52
27	Role of Catalyst and Its Fluidization in the Catalytic Gasification of Biomass to Syngas at Low Temperature. Industrial & Engineering Chemistry Research, 2002, 41, 4567-4575.	3.7	50
28	Measurement of CO₂Solubility in NaCl Brine Solutions at Different Temperatures and Pressures Using the Potentiometric Titration Method. Journal of Chemical & Engineering Data, 2015, 60, 2042-2049.	1.9	48
29	Extraction of calcium from red gypsum for calcium carbonate production. Fuel Processing Technology, 2015, 130, 12-19.	7.2	37
30	Effect of ultrasound radiation duration on emulsification and demulsification of paraffin oil and surfactant solution/brine using Hele-shaw models. Ultrasonics Sonochemistry, 2015, 26, 428-436.	8.2	34
31	Catalytic reforming of tar during gasification. Part III. Effects of feedstock on tar reforming using ilmenite as a catalyst. Fuel, 2013, 103, 950-955.	6.4	33
32	Catalytic reforming of tar during gasification. Part V. Decomposition of NO precursors on the char-supported iron catalyst. Fuel, 2014, 116, 19-24.	6.4	28
33	Novel biomass gasification method with high efficiency: catalytic gasification at low temperature. Green Chemistry, 2002, 4, 385-389.	9.0	23
34	Novel Catalysts for Gasification of Biomass with High Conversion Efficiency. Catalysis Surveys From Asia, 2003, 7, 219-233.	2.6	22
35	Carbon Dioxide Mineral Carbonation Through pH-swing Process: A Review. Energy Procedia, 2014, 61, 2783-2786.	1.8	20
36	Role of microporosity and surface functionality of activated carbon in methylene blue dye removal from water. Korean Journal of Chemical Engineering, 2013, 30, 2228-2234.	2.7	18

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37	Syngas Production from Gasification of Biomass over Rh/CeO₂/SiO₂ Catalyst: Pyrogasification, Steam Reforming and CO₂ Reforming. Journal of the Japan Petroleum Institute, 2003, 46, 322-327.	0.6	14
38	Life cycle assessment to evaluate the green house gas emission from oil palm bio-oil based power plant. Korean Journal of Chemical Engineering, 2013, 30, 1277-1283.	2.7	14
39	Preparation and Adsorption Studies of High Specific Surface Area Activated Carbons Obtained from the Chemical Activation of Jute Stick. Adsorption Science and Technology, 2006, 24, 761-770.	3.2	12
40	Highly Efficient Production of Synthesis Gas by Catalytic Gasification of Biomass at Low Reaction Temperature.. Kagaku Kogaku Ronbunshu, 2002, 28, 666-672.	0.3	10
41	64 Catalyst development for low temperature gasification of biomass: Function of char removal in fluidized bed reactor. Studies in Surface Science and Catalysis, 2003, 145, 307-310.	1.5	9
42	Gasification of Cellulose over Rh/CeO₂/SiO₂ Catalysts: Combustion of Coke and Reforming of Tar. Journal of the Japan Petroleum Institute, 2003, 46, 69-76.	0.6	9
43	Calcium Carbonate Production through Direct Mineral Carbon Dioxide Sequestration. Applied Mechanics and Materials, 0, 699, 1020-1025.	0.2	4
44	Novel Catalysts for Gasification of Biomass with High Energy Efficiency. Studies in Surface Science and Catalysis, 2004, 153, 85-90.	1.5	1
45	Life Cycle Energy Balance Analysis for Producer Gas Production from Bio-oil for Power Generation. Energy Procedia, 2014, 61, 2814-2817.	1.8	1