

Abdelghafour Zaabout

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

852
citations

516561

16
h-index

501076

28
g-index

42
all docs

42
docs citations

42
times ranked

628
citing authors

#	ARTICLE	IF	CITATIONS
1	Review on Reactor Configurations for Adsorption-Based CO ₂ Capture. Industrial & Engineering Chemistry Research, 2021, 60, 3779-3798.	1.8	93
2	Sorbents screening for post-combustion CO ₂ capture via combined temperature and pressure swing adsorption. Chemical Engineering Journal, 2020, 380, 122201.	6.6	55
3	The generality of the standard 2D TFM approach in predicting bubbling fluidized bed hydrodynamics. Powder Technology, 2013, 235, 735-746.	2.1	54
4	The swing adsorption reactor cluster for post-combustion CO ₂ capture from cement plants. Journal of Cleaner Production, 2019, 223, 692-703.	4.6	52
5	Review of pressurized chemical looping processes for power generation and chemical production with integrated CO ₂ capture. Fuel Processing Technology, 2021, 214, 106684.	3.7	52
6	Hydrogen production with integrated CO ₂ capture in a novel gas switching reforming reactor: Proof-of-concept. International Journal of Hydrogen Energy, 2017, 42, 14367-14379.	3.8	45
7	Experimental Demonstration of a Novel Gas Switching Combustion Reactor for Power Production with Integrated CO ₂ Capture. Industrial & Engineering Chemistry Research, 2013, 52, 14241-14250.	1.8	44
8	Hydrogen production with integrated CO ₂ capture in a membrane assisted gas switching reforming reactor: Proof-of-Concept. International Journal of Hydrogen Energy, 2018, 43, 6177-6190.	3.8	39
9	Economic assessment of the swing adsorption reactor cluster for CO ₂ capture from cement production. Journal of Cleaner Production, 2020, 275, 123024.	4.6	32
10	Internally circulating fluidized-bed reactor for syngas production using chemical looping reforming. Chemical Engineering Journal, 2019, 377, 120076.	6.6	30
11	Thermodynamic assessment of the swing adsorption reactor cluster (SARC) concept for post-combustion CO ₂ capture. International Journal of Greenhouse Gas Control, 2017, 60, 74-92.	2.3	25
12	Techno-Economic assessment of natural gas pyrolysis in molten salts. Energy Conversion and Management, 2022, 253, 115187.	4.4	22
13	Autothermal operation of a pressurized Gas Switching Combustion with ilmenite ore. International Journal of Greenhouse Gas Control, 2017, 63, 175-183.	2.3	21
14	Gas Switching Reforming (GSR) for syngas production with integrated CO ₂ capture using iron-based oxygen carriers. International Journal of Greenhouse Gas Control, 2019, 81, 170-180.	2.3	20
15	Innovative Internally Circulating Reactor Concept for Chemical Looping-Based CO ₂ Capture Processes: Hydrodynamic Investigation. Chemical Engineering and Technology, 2016, 39, 1413-1424.	0.9	19
16	Optimization of a Gas Switching Combustion process through advanced heat management strategies. Applied Energy, 2017, 185, 1459-1470.	5.1	17
17	Demonstration of the Novel Swing Adsorption Reactor Cluster Concept in a Multistage Fluidized Bed with Heat-Transfer Surfaces for Postcombustion CO ₂ Capture. Industrial & Engineering Chemistry Research, 2020, 59, 22281-22291.	1.8	16
18	A novel gas switching combustion reactor for power production with integrated CO ₂ capture: Sensitivity to the fuel and oxygen carrier types. International Journal of Greenhouse Gas Control, 2015, 39, 185-193.	2.3	15

#	ARTICLE	IF	CITATIONS
19	An advancement in CO ₂ utilization through novel gas switching dry reforming. International Journal of Greenhouse Gas Control, 2019, 90, 102791.	2.3	15
20	Gas Switching Reforming for syngas production with iron-based oxygen carrier-the performance under pressurized conditions. International Journal of Hydrogen Energy, 2020, 45, 1267-1282.	3.8	15
21	Mapping the operating performance of a novel internally circulating fluidized bed reactor applied to chemical looping combustion. Fuel Processing Technology, 2020, 197, 106183.	3.7	15
22	The effect of gas permeation through vertical membranes on chemical switching reforming (CSR) reactor performance. International Journal of Hydrogen Energy, 2016, 41, 8640-8655.	3.8	14
23	Combined Syngas and Hydrogen Production using Gas Switching Technology. Industrial & Engineering Chemistry Research, 2021, 60, 3516-3531.	1.8	13
24	The swing adsorption reactor cluster (SARC) for post combustion CO ₂ capture: Experimental proof-of-principle. Chemical Engineering Journal, 2019, 377, 120145.	6.6	12
25	Local solid particle behavior inside the upper zone of a circulating fluidized bed riser. Advanced Powder Technology, 2011, 22, 375-382.	2.0	11
26	The effect of frictional pressure, geometry and wall friction on the modelling of a pseudo-2D bubbling fluidised bed reactor. Powder Technology, 2015, 283, 85-102.	2.1	11
27	Detecting densified zone formation in membrane-assisted fluidized bed reactors through pressure measurements. Chemical Engineering Journal, 2017, 308, 1154-1164.	6.6	11
28	The effect of sorbent regeneration enthalpy on the performance of the novel Swing Adsorption Reactor Cluster (SARC) for post-combustion CO ₂ capture. Chemical Engineering Journal, 2019, 377, 119810.	6.6	11
29	Experimental demonstration of pressurized chemical looping combustion in an internally circulating reactor for power production with integrated CO ₂ capture. Chemical Engineering Journal, 2020, 401, 125974.	6.6	11
30	A pressurized Gas Switching Combustion reactor: Autothermal operation with a CaMnO ₃ -based oxygen carrier. Chemical Engineering Research and Design, 2018, 137, 20-32.	2.7	10
31	Pressurized chemical looping methane reforming to syngas for efficient methanol production: Experimental and process simulation study. Advances in Applied Energy, 2021, 4, 100069.	6.6	8
32	The Internally Circulating Reactor (ICR) Concept Applied to Pressurized Chemical Looping Processes. Energy Procedia, 2017, 114, 446-457.	1.8	7
33	The effect of gas addition on bubble dynamics in a fluidized bed with flat vertical membranes. Chemical Engineering Journal, 2018, 344, 71-85.	6.6	6
34	Experimental investigation on the generic effects of gas permeation through flat vertical membranes. Powder Technology, 2017, 316, 207-217.	2.1	5
35	Hydrogen production by water splitting using gas switching technology. Powder Technology, 2020, 370, 48-63.	2.1	5
36	Solids behavior in dilute zone of a CFB riser under turbulent conditions. Particuology, 2011, 9, 598-605.	2.0	4

#	ARTICLE	IF	CITATIONS
37	Experimental demonstration of control strategies for a Gas Switching Combustion reactor for power production with integrated CO ₂ capture. <i>Chemical Engineering Research and Design</i> , 2016, 111, 342-352.	2.7	4
38	Comparison of phenomenological and fundamental modelling approaches for predicting fluidized bed reactor performance. <i>Powder Technology</i> , 2012, 228, 69-83.	2.1	3
39	Heat Management in Gas Switching Combustion for Power Production with Integrated CO ₂ Capture. <i>Energy Procedia</i> , 2015, 75, 2215-2220.	1.8	3
40	Gas switching technology: Economic attractiveness for chemical looping applications and scale up experience to 50 kWth. <i>International Journal of Greenhouse Gas Control</i> , 2022, 114, 103593.	2.3	3
41	A Novel Swing Adsorption Reactor Cluster (SARC) for Cost Effective Post-combustion CO ₂ Capture: A Thermodynamic Assessment. <i>Energy Procedia</i> , 2017, 114, 2488-2496.	1.8	2
42	Study of the Cost Reductions Achievable from the Novel SARC CO ₂ Capture Concept Using a Validated Reactor Model. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 12390-12402.	1.8	2