

# Abdelghafour Zaabout

## List of Publications by Year in descending order

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42  
papers

852  
citations

516215

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500791

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42  
times ranked

628  
citing authors

#	ARTICLE	IF	CITATIONS
1	Techno-Economic assessment of natural gas pyrolysis in molten salts. <i>Energy Conversion and Management</i> , 2022, 253, 115187.	4.4	22
2	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
3	Combined Syngas and Hydrogen Production using Gas Switching Technology. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 3516-3531.	1.8	13
4	Review on Reactor Configurations for Adsorption-Based CO <sub>2</sub> Capture. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 3779-3798.	1.8	93
5	Review of pressurized chemical looping processes for power generation and chemical production with integrated CO <sub>2</sub> capture. <i>Fuel Processing Technology</i> , 2021, 214, 106684.	3.7	52
6	Study of the Cost Reductions Achievable from the Novel SARC CO <sub>2</sub> Capture Concept Using a Validated Reactor Model. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 12390-12402.	1.8	2
7	Pressurized chemical looping methane reforming to syngas for efficient methanol production: Experimental and process simulation study. <i>Advances in Applied Energy</i> , 2021, 4, 100069.	6.6	8
8	Gas Switching Reforming for syngas production with iron-based oxygen carrier-the performance under pressurized conditions. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 1267-1282.	3.8	15
9	Mapping the operating performance of a novel internally circulating fluidized bed reactor applied to chemical looping combustion. <i>Fuel Processing Technology</i> , 2020, 197, 106183.	3.7	15
10	Sorbents screening for post-combustion CO <sub>2</sub> capture via combined temperature and pressure swing adsorption. <i>Chemical Engineering Journal</i> , 2020, 380, 122201.	6.6	55
11	Experimental demonstration of pressurized chemical looping combustion in an internally circulating reactor for power production with integrated CO <sub>2</sub> capture. <i>Chemical Engineering Journal</i> , 2020, 401, 125974.	6.6	11
12	Economic assessment of the swing adsorption reactor cluster for CO <sub>2</sub> capture from cement production. <i>Journal of Cleaner Production</i> , 2020, 275, 123024.	4.6	32
13	Demonstration of the Novel Swing Adsorption Reactor Cluster Concept in a Multistage Fluidized Bed with Heat-Transfer Surfaces for Postcombustion CO <sub>2</sub> Capture. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 22281-22291.	1.8	16
14	Hydrogen production by water splitting using gas switching technology. <i>Powder Technology</i> , 2020, 370, 48-63.	2.1	5
15	An advancement in CO <sub>2</sub> utilization through novel gas switching dry reforming. <i>International Journal of Greenhouse Gas Control</i> , 2019, 90, 102791.	2.3	15
16	Gas Switching Reforming (GSR) for syngas production with integrated CO <sub>2</sub> capture using iron-based oxygen carriers. <i>International Journal of Greenhouse Gas Control</i> , 2019, 81, 170-180.	2.3	20
17	The swing adsorption reactor cluster for post-combustion CO <sub>2</sub> capture from cement plants. <i>Journal of Cleaner Production</i> , 2019, 223, 692-703.	4.6	52
18	The effect of sorbent regeneration enthalpy on the performance of the novel Swing Adsorption Reactor Cluster (SARC) for post-combustion CO <sub>2</sub> capture. <i>Chemical Engineering Journal</i> , 2019, 377, 119810.	6.6	11

#	ARTICLE	IF	CITATIONS
19	The swing adsorption reactor cluster (SARC) for post combustion CO <sub>2</sub> capture: Experimental proof-of-principle. Chemical Engineering Journal, 2019, 377, 120145.	6.6	12
20	Internally circulating fluidized-bed reactor for syngas production using chemical looping reforming. Chemical Engineering Journal, 2019, 377, 120076.	6.6	30
21	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
22	Hydrogen production with integrated CO <sub>2</sub> capture in a membrane assisted gas switching reforming reactor: Proof-of-Concept. International Journal of Hydrogen Energy, 2018, 43, 6177-6190.	3.8	39
23	A pressurized Gas Switching Combustion reactor: Autothermal operation with a CaMnO <sub>3</sub> -based oxygen carrier. Chemical Engineering Research and Design, 2018, 137, 20-32.	2.7	10
24	Optimization of a Gas Switching Combustion process through advanced heat management strategies. Applied Energy, 2017, 185, 1459-1470.	5.1	17
25	Experimental investigation on the generic effects of gas permeation through flat vertical membranes. Powder Technology, 2017, 316, 207-217.	2.1	5
26	Hydrogen production with integrated CO <sub>2</sub> capture in a novel gas switching reforming reactor: Proof-of-concept. International Journal of Hydrogen Energy, 2017, 42, 14367-14379.	3.8	45
27	Thermodynamic assessment of the swing adsorption reactor cluster (SARC) concept for post-combustion CO <sub>2</sub> capture. International Journal of Greenhouse Gas Control, 2017, 60, 74-92.	2.3	25
28	The Internally Circulating Reactor (ICR) Concept Applied to Pressurized Chemical Looping Processes. Energy Procedia, 2017, 114, 446-457.	1.8	7
29	A Novel Swing Adsorption Reactor Cluster (SARC) for Cost Effective Post-combustion CO <sub>2</sub> Capture: A Thermodynamic Assessment. Energy Procedia, 2017, 114, 2488-2496.	1.8	2
30	Autothermal operation of a pressurized Gas Switching Combustion with ilmenite ore. International Journal of Greenhouse Gas Control, 2017, 63, 175-183.	2.3	21
31	Detecting densified zone formation in membrane-assisted fluidized bed reactors through pressure measurements. Chemical Engineering Journal, 2017, 308, 1154-1164.	6.6	11
32	Innovative Internally Circulating Reactor Concept for Chemical Looping-Based CO <sub>2</sub> Capture Processes: Hydrodynamic Investigation. Chemical Engineering and Technology, 2016, 39, 1413-1424.	0.9	19
33	Experimental demonstration of control strategies for a Gas Switching Combustion reactor for power production with integrated CO <sub>2</sub> capture. Chemical Engineering Research and Design, 2016, 111, 342-352.	2.7	4
34	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
35	Heat Management in Gas Switching Combustion for Power Production with Integrated CO <sub>2</sub> Capture. Energy Procedia, 2015, 75, 2215-2220.	1.8	3
36	A novel gas switching combustion reactor for power production with integrated CO <sub>2</sub> 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
37	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
38	The generality of the standard 2D TFM approach in predicting bubbling fluidized bed hydrodynamics. Powder Technology, 2013, 235, 735-746.	2.1	54
39	Experimental Demonstration of a Novel Gas Switching Combustion Reactor for Power Production with Integrated CO <sub>2</sub> Capture. Industrial & Engineering Chemistry Research, 2013, 52, 14241-14250.	1.8	44
40	Comparison of phenomenological and fundamental modelling approaches for predicting fluidized bed reactor performance. Powder Technology, 2012, 228, 69-83.	2.1	3
41	Solids behavior in dilute zone of a CFB riser under turbulent conditions. Particuology, 2011, 9, 598-605.	2.0	4
42	Local solid particle behavior inside the upper zone of a circulating fluidized bed riser. Advanced Powder Technology, 2011, 22, 375-382.	2.0	11