

# Samuel Bayham

## List of Publications by Year in descending order

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13  
papers

538  
citations

1040056

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1281871

11  
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docs citations

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times ranked

420  
citing authors

#	ARTICLE	IF	CITATIONS
1	Iron-based syngas chemical looping process and coal-direct chemical looping process development at Ohio State University. <i>Applied Energy</i> , 2014, 113, 1836-1845.	10.1	167
2	Coal direct chemical looping combustion process: Design and operation of a 25-kWth sub-pilot unit. <i>Fuel</i> , 2013, 108, 370-384.	6.4	118
3	Parametric and dynamic studies of an iron-based 25-kWth coal direct chemical looping unit using sub-bituminous coal. <i>Applied Energy</i> , 2015, 145, 354-363.	10.1	58
4	Conversion of metallurgical coke and coal using a Coal Direct Chemical Looping (CDCL) moving bed reactor. <i>Applied Energy</i> , 2014, 118, 300-308.	10.1	52
5	Iron oxide looping for natural gas conversion in a countercurrent moving bed reactor. <i>Applied Energy</i> , 2015, 157, 338-347.	10.1	44
6	50-kWth methane/air chemical looping combustion tests with commercially prepared CuO-Fe <sub>2</sub> O <sub>3</sub> -alumina oxygen carrier with two different techniques. <i>Applied Energy</i> , 2018, 213, 92-99.	10.1	40
7	Conversion of Woody Biomass Materials by Chemical Looping Process—Kinetics, Light Tar Cracking, and Moving Bed Reactor Behavior. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 14116-14124.	3.7	20
8	Operation of a 50-kWth chemical looping combustion test facility under autothermal conditions. <i>International Journal of Greenhouse Gas Control</i> , 2019, 87, 211-220.	4.6	13
9	Development of CuFeMnAlO <sub>4</sub> oxygen carrier with high attrition resistance and 50-kWth methane/air chemical looping combustion tests. <i>Applied Energy</i> , 2021, 286, 116507.	10.1	11
10	Insights into the Adsorption of Carbon Dioxide in the Presence of Water Vapor Utilizing a Low Molecular Weight Polyethylenimine-Impregnated CARiACT Silica Sorbent. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 9054-9064.	3.7	10
11	Chemical Looping Combustion of Hematite Ore with Methane and Steam in a Fluidized Bed Reactor. <i>Energies</i> , 2017, 10, 1179.	3.1	5
12	Cyber-Physical Observer for Fluidized Bed-Chemical Looping Control Applications. , 2017, , .		0
13	Analyzing Gas Turbine-Generator Performance of the Hybrid Power System. <i>IEEE Transactions on Power Systems</i> , 2022, 37, 543-550.	6.5	0