

Andy N Antzaras

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

813
citations

516710

16
h-index

794594

19
g-index

19
all docs

19
docs citations

19
times ranked

622
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances on materials and processes for intensified production of blue hydrogen. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 155, 111917.	16.4	32
2	Hybrid catalytic materials with CO ₂ capture and oxygen transfer functionalities for high-purity H ₂ production. <i>Catalysis Today</i> , 2021, 369, 2-11.	4.4	17
3	Towards a generalized carbonation kinetic model for CaO-based materials using a modified random pore model. <i>Chemical Engineering Journal</i> , 2021, 407, 127207.	12.7	25
4	Enhancing the intermediate-temperature CO ₂ capture efficiency of mineral MgO via molten alkali nitrates and CaCO ₃ : Characterization and sorption mechanism. <i>Journal of CO₂ Utilization</i> , 2021, 50, 101605.	6.8	20
5	Magnesite-derived MgO promoted with molten salts and limestone as highly-efficient CO ₂ sorbent. <i>Journal of CO₂ Utilization</i> , 2021, 53, 101725.	6.8	17
6	Intensified steam methane reforming coupled with Ca-Ni looping in a dual fluidized bed reactor system: A conceptual design. <i>Chemical Engineering Journal</i> , 2020, 382, 122993.	12.7	31
7	Sorption enhanced-chemical looping steam methane reforming: Optimizing the thermal coupling of regeneration in a fixed bed reactor. <i>Fuel Processing Technology</i> , 2020, 208, 106513.	7.2	29
8	One-Dimensional Heterogeneous Reaction Model of a Drop-Tube Carbonator Reactor for Thermochemical Energy Storage Applications. <i>Energies</i> , 2020, 13, 5905.	3.1	3
9	CO ₂ capture and fluidity performance of CaO-based sorbents: Effect of Zr, Al and Ce additives in tri-, bi- and mono-metallic configurations. <i>Chemical Engineering Research and Design</i> , 2020, 144, 349-365.	5.6	53
10	Evaluation of Calcium-Based Sorbents Derived from Natural Ores and Industrial Wastes for High-Temperature CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 9926-9938.	3.7	33
11	Development of NiO-Based Oxygen Carrier Materials: Effect of Support on Redox Behavior and Carbon Deposition in Methane. <i>Energy & Fuels</i> , 2016, 30, 8597-8612.	5.1	24
12	Energy efficient sorption enhanced-chemical looping methane reforming process for high-purity H ₂ production: Experimental proof-of-concept. <i>Applied Energy</i> , 2016, 180, 457-471.	10.1	62
13	Activity study of NiO-based oxygen carriers in chemical looping steam methane reforming. <i>Catalysis Today</i> , 2016, 272, 32-41.	4.4	68
14	Evaluating the Activity and Stability of CaO-based Sorbents for Post-combustion CO ₂ Capture in Fixed-bed Reactor Experiments. <i>Energy Procedia</i> , 2016, 86, 171-180.	1.8	19
15	NiO supported on Al ₂ O ₃ and ZrO ₂ oxygen carriers for chemical looping steam methane reforming. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 7490-7501.	7.1	92
16	Improving the stability of synthetic CaO-based CO ₂ sorbents by structural promoters. <i>Applied Energy</i> , 2015, 156, 331-343.	10.1	116
17	Thermodynamic analysis of hydrogen production via chemical looping steam methane reforming coupled with in situ CO ₂ capture. <i>International Journal of Greenhouse Gas Control</i> , 2015, 32, 115-128.	4.6	118
18	Thermodynamic Analysis of Hydrogen Production via Chemical Looping Steam Methane Reforming Coupled with in Situ CO ₂ Capture. <i>Energy Procedia</i> , 2014, 63, 6576-6589.	1.8	28

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19	Development of CaO-based Mixed Oxides as Stable Sorbents for Post-Combustion CO ₂ Capture Via Carbonate Looping. Energy Procedia, 2014, 63, 2160-2169.	1.8	26