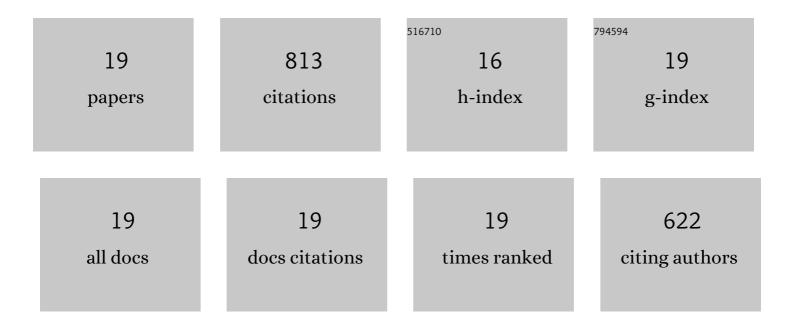
## Andy N Antzaras

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Thermodynamic analysis of hydrogen production via chemical looping steam methane reforming coupled with in situ CO 2 capture. International Journal of Greenhouse Gas Control, 2015, 32, 115-128.	4.6	118
2	Improving the stability of synthetic CaO-based CO 2 sorbents by structural promoters. Applied Energy, 2015, 156, 331-343.	10.1	116
3	NiO supported on Al 2 O 3 and ZrO 2 oxygen carriers for chemical looping steam methane reforming. International Journal of Hydrogen Energy, 2015, 40, 7490-7501.	7.1	92
4	Activity study of NiO-based oxygen carriers in chemical looping steam methane reforming. Catalysis Today, 2016, 272, 32-41.	4.4	68
5	Energy efficient sorption enhanced-chemical looping methane reforming process for high-purity H2 production: Experimental proof-of-concept. Applied Energy, 2016, 180, 457-471.	10.1	62
6	CO2 capture and fluidity performance of CaO-based sorbents: Effect of Zr, Al and Ce additives in tri-, bi- and mono-metallic configurations. Chemical Engineering Research and Design, 2020, 144, 349-365.	5.6	53
7	Evaluation of Calcium-Based Sorbents Derived from Natural Ores and Industrial Wastes for High-Temperature CO <sub>2</sub> Capture. Industrial & Engineering Chemistry Research, 2020, 59, 9926-9938.	3.7	33
8	Recent advances on materials and processes for intensified production of blue hydrogen. Renewable and Sustainable Energy Reviews, 2022, 155, 111917.	16.4	32
9	Intensified steam methane reforming coupled with Ca-Ni looping in a dual fluidized bed reactor system: A conceptual design. Chemical Engineering Journal, 2020, 382, 122993.	12.7	31
10	Sorption enhanced–chemical looping steam methane reforming: Optimizing the thermal coupling of regeneration in a fixed bed reactor. Fuel Processing Technology, 2020, 208, 106513.	7.2	29
11	Thermodynamic Analysis of Hydrogen Production via Chemical Looping Steam Methane Reforming Coupled with in Situ CO2 Capture. Energy Procedia, 2014, 63, 6576-6589.	1.8	28
12	Development of CaO-based Mixed Oxides as Stable Sorbents for Post-Combustion CO2 Capture Via Carbonate Looping. Energy Procedia, 2014, 63, 2160-2169.	1.8	26
13	Towards a generalized carbonation kinetic model for CaO-based materials using a modified random pore model. Chemical Engineering Journal, 2021, 407, 127207.	12.7	25
14	Development of NiO-Based Oxygen Carrier Materials: Effect of Support on Redox Behavior and Carbon Deposition in Methane. Energy & Fuels, 2016, 30, 8597-8612.	5.1	24
15	Enhancing the intermediate-temperature CO2 capture efficiency of mineral MgO via molten alkali nitrates and CaCO3: Characterization and sorption mechanism. Journal of CO2 Utilization, 2021, 50, 101605.	6.8	20
16	Evaluating the Activity and Stability of CaO-based Sorbents for Post-combustion CO2 Capture in Fixed-bed Reactor Experiments. Energy Procedia, 2016, 86, 171-180.	1.8	19
17	Hybrid catalytic materials with CO2 capture and oxygen transfer functionalities for high–purity H2 production. Catalysis Today, 2021, 369, 2-11.	4.4	17
18	Magnesite-derived MgO promoted with molten salts and limestone as highly-efficient CO2 sorbent. Journal of CO2 Utilization, 2021, 53, 101725.	6.8	17

#	Article	IF	CITATIONS
19	One-Dimensional Heterogeneous Reaction Model of a Drop-Tube Carbonator Reactor for Thermochemical Energy Storage Applications. Energies, 2020, 13, 5905.	3.1	3