Peter C Psarras

List of Publications by Year
in descending order

22 papers	1,236 citations	623734 14 h-index	713466 21 g-index
22 all docs	22 docs citations	22 times ranked	1534 citing authors

#	Article	IF	Citations
1	Natural Gas vs. Electricity for Solvent-Based Direct Air Capture. Frontiers in Climate, 2021, 2, .	2.8	35
2	Carbon footprinting of carbon capture and -utilization technologies: discussion of the analysis of Carbon XPRIZE competition team finalists. Clean Energy, 2021, 5, 587-599.	3.2	2
3	Enhancement of the Yield of Ammonia by Hydrogenâ€Sink Effect during Plasma Catalysis. ChemCatChem, 2020, 12, 1200-1211.	3.7	37
4	Cost Analysis of Direct Air Capture and Sequestration Coupled to Low-Carbon Thermal Energy in the United States. Environmental Science & Technology, 2020, 54, 7542-7551.	10.0	80
5	Cost Analysis of Carbon Capture and Sequestration from U.S. Natural Gas-Fired Power Plants. Environmental Science & Technology, 2020, 54, 6272-6280.	10.0	44
6	Cost Analysis of Carbon Capture and Sequestration of Process Emissions from the U.S. Industrial Sector. Environmental Science & Technology, 2020, 54, 7524-7532.	10.0	66
7	Material Consequences of Hydrogen Dissolution in Palladium Alloys Observed from First Principles. Journal of Physical Chemistry C, 2019, 123, 22158-22171.	3.1	8
8	Dissociation, Dissolution, and Diffusion of Nitrogen on V_xFe_y and V_xCr_y Alloy Membranes Studied by First Principles. Journal of Physical Chemistry C, 2019, 123, 30416-30426.	3.1	1
9	An Overview of the Status and Challenges of CO2 Storage in Minerals and Geological Formations. Frontiers in Climate, 2019, 1, .	2.8	200
10	Effect of Ag and Pd promotion on CH₄selectivity in Fe(100) Fischerâ€“TrÃ¶psch catalysis. Physical Chemistry Chemical Physics, 2017, 19, 5495-5503.	2.8	4
11	Effect of Water on the CO₂ Adsorption Capacity of Amine-Functionalized Carbon Sorbents. Industrial & Engineering Chemistry Research, 2017, 56, 6317-6325.	3.7	18
12	Assessment of reasonable opportunities for direct air capture. Environmental Research Letters, 2017, 12, 065001.	5.2	84
13	CO 2 capture from the industry sector. Progress in Energy and Combustion Science, 2017, 63, 146-172.	31.2	247
14	Modeling CO₂ Transport and Sorption in Carbon Slit Pores. Journal of Physical Chemistry C, 2017, 121, 21018-21028.	3.1	10
15	Carbon Capture and Utilization in the Industrial Sector. Environmental Science & Technology, 2017, 51, 11440-11449.	10.0	91
16	Theoretical Study of Nitrogen Absorption in Metals. Journal of Physical Chemistry C, 2017, 121, 17016-17028.	3.1	5
17	Slicing the pie: how big could carbon dioxide removal be?. Wiley Interdisciplinary Reviews: Energy and Environment, 2017, 6, e253.	4.1	14
18	Methane and CO₂ Adsorption Capacities of Kerogen in the Eagle Ford Shale from Molecular Simulation. Accounts of Chemical Research, 2017, 50, 1818-1828.	15.6	130

#	Article	IF	Citations
19	Tunable Polyanilineâ€Based Porous Carbon with Ultrahigh Surface Area for CO₂ Capture at Elevated Pressure. Advanced Energy Materials, 2016, 6, 1502491.	19.5	129
20	Molecular simulations of nitrogen-doped hierarchical carbon adsorbents for post-combustion CO₂ capture. Physical Chemistry Chemical Physics, 2016, 18, 28747-28758.	2.8	21
21	DFT/QTAIM analysis of the effect of late transition metal doping on methane selectivity in Fischerâ€“TrÃ¶psch catalysis. Computational and Theoretical Chemistry, 2015, 1063, 1-9.	2.5	5
22	Direct Air Capture: Assessing Impacts to Enable Responsible Scaling. , 0, , .		5