

# Peter C Psarras

## List of Publications by Year in descending order

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Version: 2024-02-01

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	CO <sub>2</sub> capture from the industry sector. <i>Progress in Energy and Combustion Science</i> , 2017, 63, 146-172.	31.2	247
2	An Overview of the Status and Challenges of CO <sub>2</sub> Storage in Minerals and Geological Formations. <i>Frontiers in Climate</i> , 2019, 1, .	2.8	200
3	Methane and CO <sub>2</sub> Adsorption Capacities of Kerogen in the Eagle Ford Shale from Molecular Simulation. <i>Accounts of Chemical Research</i> , 2017, 50, 1818-1828.	15.6	130
4	Tunable Polyaniline-Based Porous Carbon with Ultrahigh Surface Area for CO <sub>2</sub> Capture at Elevated Pressure. <i>Advanced Energy Materials</i> , 2016, 6, 1502491.	19.5	129
5	Carbon Capture and Utilization in the Industrial Sector. <i>Environmental Science &amp; Technology</i> , 2017, 51, 11440-11449.	10.0	91
6	Assessment of reasonable opportunities for direct air capture. <i>Environmental Research Letters</i> , 2017, 12, 065001.	5.2	84
7	Cost Analysis of Direct Air Capture and Sequestration Coupled to Low-Carbon Thermal Energy in the United States. <i>Environmental Science &amp; Technology</i> , 2020, 54, 7542-7551.	10.0	80
8	Cost Analysis of Carbon Capture and Sequestration of Process Emissions from the U.S. Industrial Sector. <i>Environmental Science &amp; Technology</i> , 2020, 54, 7524-7532.	10.0	66
9	Cost Analysis of Carbon Capture and Sequestration from U.S. Natural Gas-Fired Power Plants. <i>Environmental Science &amp; Technology</i> , 2020, 54, 6272-6280.	10.0	44
10	Enhancement of the Yield of Ammonia by Hydrogen Sink Effect during Plasma Catalysis. <i>ChemCatChem</i> , 2020, 12, 1200-1211.	3.7	37
11	Natural Gas vs. Electricity for Solvent-Based Direct Air Capture. <i>Frontiers in Climate</i> , 2021, 2, .	2.8	35
12	Molecular simulations of nitrogen-doped hierarchical carbon adsorbents for post-combustion CO <sub>2</sub> capture. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28747-28758.	2.8	21
13	Effect of Water on the CO <sub>2</sub> Adsorption Capacity of Amine-Functionalized Carbon Sorbents. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 6317-6325.	3.7	18
14	Slicing the pie: how big could carbon dioxide removal be?. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2017, 6, e253.	4.1	14
15	Modeling CO <sub>2</sub> Transport and Sorption in Carbon Slit Pores. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21018-21028.	3.1	10
16	Material Consequences of Hydrogen Dissolution in Palladium Alloys Observed from First Principles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22158-22171.	3.1	8
17	DFT/QTAIM analysis of the effect of late transition metal doping on methane selectivity in Fischer-Tropsch catalysis. <i>Computational and Theoretical Chemistry</i> , 2015, 1063, 1-9.	2.5	5
18	Theoretical Study of Nitrogen Absorption in Metals. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17016-17028.	3.1	5

#	ARTICLE	IF	CITATIONS
19	Direct Air Capture: Assessing Impacts to Enable Responsible Scaling. , 0, , .		5
20	Effect of Ag and Pd promotion on CH <sub>4</sub> selectivity in Fe(100) Fischer–Tropsch catalysis. Physical Chemistry Chemical Physics, 2017, 19, 5495-5503.	2.8	4
21	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
22	Dissociation, Dissolution, and Diffusion of Nitrogen on V <sub>x</sub> Fe <sub>y</sub> and V <sub>x</sub> Cr <sub>y</sub> Alloy Membranes Studied by First Principles. Journal of Physical Chemistry C, 2019, 123, 30416-30426.	3.1	1