

# Mirian Casco

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

1,764  
citations

393982  
19  
h-index

525886  
27  
g-index

27  
all docs

27  
docs citations

27  
times ranked

2786  
citing authors

#	ARTICLE	IF	CITATIONS
1	A sol-gel monolithic metal-organic framework with enhanced methane uptake. <i>Nature Materials</i> , 2018, 17, 174-179.	13.3	386
2	Toward a molecular design of porous carbon materials. <i>Materials Today</i> , 2017, 20, 592-610.	8.3	202
3	Effect of the porous structure in carbon materials for CO <sub>2</sub> capture at atmospheric and high-pressure. <i>Carbon</i> , 2014, 67, 230-235.	5.4	187
4	High-Pressure Methane Storage in Porous Materials: Are Carbon Materials in the Pole Position?. <i>Chemistry of Materials</i> , 2015, 27, 959-964.	3.2	178
5	Paving the way for methane hydrate formation on metal-organic frameworks (MOFs). <i>Chemical Science</i> , 2016, 7, 3658-3666.	3.7	103
6	Illuminating solid gas storage in confined spaces – methane hydrate formation in porous model carbons. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 20607-20614.	1.3	73
7	Influence of the Amide Groups in the CO <sub>2</sub> /N <sub>2</sub> Selectivity of a Series of Isorecticular, Interpenetrated Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , 2016, 16, 6016-6023.	1.4	73
8	Methane Hydrate in Confined Spaces: An Alternative Storage System. <i>ChemPhysChem</i> , 2018, 19, 1298-1314.	1.0	59
9	Very high methane uptake on activated carbons prepared from mesophase pitch: A compromise between microporosity and bulk density. <i>Carbon</i> , 2015, 93, 11-21.	5.4	52
10	Sulfonated porous carbon catalysts for biodiesel production: Clear effect of the carbon particle size on the catalyst synthesis and properties. <i>Fuel Processing Technology</i> , 2016, 149, 209-217.	3.7	52
11	Experimental Evidence of Confined Methane Hydrate in Hydrophilic and Hydrophobic Model Carbons. <i>Journal of Physical Chemistry C</i> , 2019, 123, 24071-24079.	1.5	52
12	Mechanochemical synthesis of N-doped porous carbon at room temperature. <i>Nanoscale</i> , 2019, 11, 4712-4718.	2.8	47
13	Mechanochemical synthesis of porous carbon at room temperature with a highly ordered sp <sup>2</sup> microstructure. <i>Carbon</i> , 2018, 139, 325-333.	5.4	36
14	Influence of the oxygen-containing surface functional groups in the methane hydrate nucleation and growth in nanoporous carbon. <i>Carbon</i> , 2017, 123, 299-301.	5.4	34
15	Unusual flexibility of mesophase pitch-derived carbon materials: An approach to the synthesis of graphene. <i>Carbon</i> , 2017, 115, 539-545.	5.4	31
16	Activated nanocarbons produced by microwave-assisted hydrothermal carbonization of Amazonian fruit waste for methane storage. <i>Materials Chemistry and Physics</i> , 2018, 216, 42-46.	2.0	31
17	Nanocasting in ball mills – combining ultra-hydrophilicity and ordered mesoporosity in carbon materials. <i>Journal of Materials Chemistry A</i> , 2018, 6, 859-865.	5.2	29
18	Synthesis of carbon monoliths with a tailored hierarchical pore structure for selective CO <sub>2</sub> capture. <i>Journal of CO<sub>2</sub> Utilization</i> , 2018, 26, 36-44.	3.3	29

#	ARTICLE	IF	CITATIONS
19	Understanding ZIF-8 Performance upon Gas Adsorption by Means of Inelastic Neutron Scattering. ChemistrySelect, 2017, 2, 2750-2753.	0.7	21
20	High-Performance of Gas Hydrates in Confined Nanospace for Reversible CH <sub>4</sub> /CO <sub>2</sub> Storage. Chemistry - A European Journal, 2016, 22, 10028-10035.	1.7	19
21	CO <sub>2</sub> adsorption on crystalline graphitic nanostructures. Journal of CO <sub>2</sub> Utilization, 2014, 5, 60-65.	3.3	17
22	HKUST-1@ACM hybrids for adsorption applications: A systematic study of the synthesis conditions. Microporous and Mesoporous Materials, 2017, 237, 74-81.	2.2	15
23	On the origin of mesopore collapse in functionalized porous carbons. Carbon, 2019, 149, 743-749.	5.4	14
24	Diffusion-Barrier-Free Porous Carbon Monoliths as a New Form of Activated Carbon. ChemSusChem, 2012, 5, 2271-2277.	3.6	8
25	Oxidative Dehydrogenation of Ethylbenzene Over Poly(furfuryl alcohol)-Derived CMK-1 Carbon Replica. Catalysis Letters, 2016, 146, 1231-1241.	1.4	7
26	Successful application of a commercial cationic surfactant mixture (benzalkonium chloride) as porosity stabilizer in porous carbons fabrication. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 509, 449-456.	2.3	6
27	Non-porous organic crystals and their interaction with guest molecules from the gas phase. Adsorption, 2020, 26, 1323-1333.	1.4	3