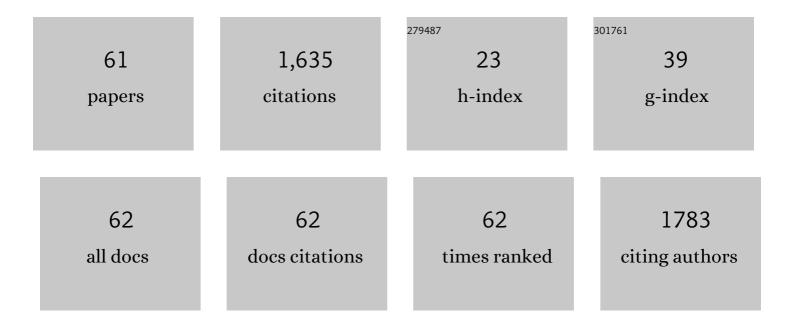
Moises Bastos-Neto

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Microporous activated carbon prepared from coconut shells using chemical activation with zinc chloride. Microporous and Mesoporous Materials, 2007, 100, 361-364.	2.2	165
2	Adsorption equilibria of O2, Ar, Kr and Xe on activated carbon and zeolites: single component and mixture data. Adsorption, 2011, 17, 371-383.	1.4	119
3	Effects of textural and surface characteristics of microporous activated carbons on the methane adsorption capacity at high pressures. Applied Surface Science, 2007, 253, 5721-5725.	3.1	88
4	Adsorption equilibria of CO2 and CH4 in cation-exchanged zeolites 13X. Adsorption, 2016, 22, 71-80.	1.4	79
5	Assessment of hydrogen storage by physisorption in porous materials. Energy and Environmental Science, 2012, 5, 8294.	15.6	75
6	Preparation of biomass-based activated carbons and their evaluation for biogas upgrading purposes. Industrial Crops and Products, 2017, 109, 134-140.	2.5	65
7	CO ₂ and H ₂ S Removal from CH ₄ -Rich Streams by Adsorption on Activated Carbons Modified with K ₂ CO ₃ , NaOH, or Fe ₂ O ₃ . Energy & Fuels, 2016, 30, 9596-9604.	2.5	64
8	Carbon Dioxide Capture by Pressure Swing Adsorption. Energy Procedia, 2017, 114, 2182-2192.	1.8	63
9	CO2 adsorption capacity of zeolites synthesized from coal fly ashes. Fuel, 2020, 276, 118143.	3.4	62
10	Studies on the adsorption behavior of CO2-CH4 mixtures using activated carbon. Brazilian Journal of Chemical Engineering, 2013, 30, 939-951.	0.7	60
11	A Theoretical and Experimental Study of Charge and Discharge Cycles in a Storage Vessel for Adsorbed Natural Gas. Adsorption, 2005, 11, 147-157.	1.4	50
12	Experimental analysis of the efficiency on charge/discharge cycles in natural gas storage by adsorption. Fuel, 2011, 90, 113-119.	3.4	47
13	Microwave-assisted nitric acid treatment of sepiolite and functionalization with polyethylenimine applied to CO2 capture and CO2/N2 separation. Applied Surface Science, 2017, 410, 315-325.	3.1	43
14	Methane Adsorption Storage Using Microporous Carbons Obtained from Coconut Shells. Adsorption, 2005, 11, 911-915.	1.4	42
15	Dynamic bed measurements of CO adsorption on microporous adsorbents at high pressures for hydrogen purification processes. Separation and Purification Technology, 2011, 77, 251-260.	3.9	37
16	CO2 Capture with Mesoporous Silicas Modified with Amines by Double Functionalization: Assessment of Adsorption/Desorption Cycles. Materials, 2018, 11, 887.	1.3	36
17	Insights into CO2 adsorption in amino-functionalized SBA-15 synthesized at different aging temperature. Adsorption, 2020, 26, 225-240.	1.4	36
18	CO2/CH4 adsorption separation process using pore expanded mesoporous silicas functionalizated by APTES grafting. Adsorption, 2015, 21, 565-575.	1.4	29

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19	Prediction of the monocomponent adsorption of H2S and mixtures with CO2 and CH4 on activated carbons. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 559, 342-350.	2.3	28
20	Ethylene adsorption on chitosan/zeolite composite films for packaging applications. Food Packaging and Shelf Life, 2020, 26, 100584.	3.3	28
21	Adsorption Equilibria of Natural Gas Components on Activated Carbon: Pure and Mixed Gas Isotherms. Adsorption Science and Technology, 2008, 26, 323-332.	1.5	26
22	Assessment of CO2 desorption from 13X zeolite for a prospective TSA process. Adsorption, 2020, 26, 813-824.	1.4	26
23	Assessing the potential of nanoporous carbon adsorbents from polyethylene terephthalate (PET) to separate CO2 from flue gas. Adsorption, 2018, 24, 279-291.	1.4	23
24	Adsorption microcalorimetry as a tool in the characterization of amine-grafted mesoporous silicas for CO2 capture. Adsorption, 2020, 26, 165-175.	1.4	23
25	Insights on the Mechanisms of H ₂ S Retention at Low Concentration on Impregnated Carbons. Industrial & Engineering Chemistry Research, 2018, 57, 2248-2257.	1.8	22
26	Effect of coal fly ash treatments on synthesis of high-quality zeolite A as a potential additive for warm mix asphalt. Materials Chemistry and Physics, 2022, 275, 125197.	2.0	21
27	Evaluation of carbon dioxide–nitrogen separation through fixed bed measurements and simulations. Adsorption, 2014, 20, 945-957.	1.4	20
28	On the structural, textural and morphological features of Fe-based catalysts supported on polystyrene mesoporous carbon for Fischer–Tropsch synthesis. Applied Catalysis A: General, 2015, 495, 72-83.	2.2	20
29	Evaluation of the thermal regeneration of an amine-grafted mesoporous silica used for CO2/N2 separation. Adsorption, 2020, 26, 203-215.	1.4	18
30	Deep learning analysis of Ar, Xe, Kr, and O2 adsorption on Activated Carbon and Zeolites using ANN approach. Chemical Engineering and Processing: Process Intensification, 2022, 170, 108662.	1.8	18
31	Parametric Analysis of a Moving Bed Temperature Swing Adsorption (MBTSA) Process for Postcombustion CO ₂ Capture. Industrial & Engineering Chemistry Research, 2021, 60, 10736-10752.	1.8	16
32	Kaolinite-based zeolites synthesis and their application in CO2 capture processes. Fuel, 2022, 320, 123953.	3.4	15
33	Assessment of the potential use of zeolites synthesized from power plant fly ash to capture CO2 under post-combustion scenario. Adsorption, 2020, 26, 1153-1164.	1.4	14
34	Siloxane adsorption by porous silica synthesized from residual sand of wastewater treatment. Journal of Environmental Chemical Engineering, 2021, 9, 104805.	3.3	14
35	Investigation of premature aging of zeolites used in the drying of gas streams. Chemical Engineering Communications, 2019, 206, 1367-1374.	1.5	12
36	Effect of Additives to Improve Calcium-Based Sorbents in Semi-Dry Flue Gas Desulphurization. Emission Control Science and Technology, 2020, 6, 105-112.	0.8	12

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37	Pure and Binary Adsorption of Carbon Dioxide and Nitrogen on AQSOA FAM Z02. Journal of Chemical & Engineering Data, 2018, 63, 661-670.	1.0	11
38	Effect of ultramicropores on the mechanisms of H2S retention from biogas. Chemical Engineering Research and Design, 2020, 154, 241-249.	2.7	11
39	Water adsorption and hydrothermal stability of CHA zeolites with different Si/Al ratios and compensating cations. Catalysis Today, 2022, 390-391, 99-108.	2.2	11
40	Representative Pores: An Efficient Method to Characterize Activated Carbons. Frontiers in Chemistry, 2020, 8, 595230.	1.8	10
41	Experimental and theoretical assessment of CO2 capture by adsorption on clinoptilolite. Chemical Engineering Research and Design, 2022, 177, 640-652.	2.7	10
42	Adsorption Measurements of Nitrogen and Methane in Hydrogen-Rich Mixtures at High Pressures. Industrial & Engineering Chemistry Research, 2011, 50, 10211-10221.	1.8	9
43	Simple Procedure to Estimate Mass Transfer Coefficients from Uptake Curves on Activated Carbons. Chemical Engineering and Technology, 2018, 41, 1622-1630.	0.9	9
44	LTA Zeolite Characterization Based on Pore Type Distribution. Industrial & Engineering Chemistry Research, 2022, 61, 2268-2279.	1.8	8
45	Breakthrough Curves of Methane at High Pressures for H ₂ Purification Processes. Chemie-Ingenieur-Technik, 2011, 83, 183-190.	0.4	6
46	Zinc Ferrite Nanoparticles via Coprecipitation Modified Method: Glycerol as Structure Directing and Stabilizing Agent. Journal of the Brazilian Chemical Society, 0, , .	0.6	6
47	H ₂ S and H ₂ O Combined Effect on CO ₂ Capture by Amino Functionalized Hollow Microsphere Silicas. Industrial & Engineering Chemistry Research, 2021, 60, 10139-10154.	1.8	6
48	Mineral sorbents for downstream sodium capture in biomass gasifiers. Fuel Processing Technology, 2015, 138, 629-636.	3.7	5
49	Assessing mass transfer rates in porous adsorbents using gas adsorption microcalorimetry. Chemical Engineering Science, 2021, 229, 115983.	1.9	5
50	Simulation of CO2/CH4 high pressure separation on microporous activated carbon. Chemical Engineering Communications, 2019, 206, 1414-1425.	1.5	2
51	Oxidation Behavior of Maraging 300 Alloy Exposed to Nitrogen/Water Vapor Atmosphere at 500 °C. Metals, 2021, 11, 1021.	1.0	2
52	Water adsorption in fresh and thermally aged zeolites: equilibrium and kinetics. Adsorption, 2021, 27, 1043-1053.	1.4	2
53	Insights into optimized synthesis conditions of hollow microspheres of silica for water vapor adsorption. Chemical Engineering Research and Design, 2022, 177, 583-593.	2.7	2
54	Neural network protocol to predict interfacial tension for CO ₂ /CH ₄ /Water-Brine ternary systems under reservoir temperature and pressure ranges. Petroleum Science and Technology, 2022, 40, 181-200.	0.7	2

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55	H2 Reinigung - Experiment und Vorhersage. Chemie-Ingenieur-Technik, 2010, 82, 1573-1573.	0.4	Ο
56	High-temperature sorption of sodium vapors in typical outlet streams from biomass gasifiers. Brazilian Journal of Chemical Engineering, 2021, 38, 403.	0.7	0
57	Performance of adsorption isotherms kernels of CO2 models for Î ³ -alumina characterization. Adsorption, 2021, 27, 1035-1042.	1.4	0
58	Activated Carbons for H2S Capture. Engineering Materials, 2021, , 197-215.	0.3	0
59	Special issue on the 13th Brazilian meeting on adsorption. Adsorption, 2021, 27, 1001-1002.	1.4	0
60	ZEÓLITA 4A PARA PURIFICAÇÃ $_{ m f}$ O DO GÃ $_{ m S}$ DE ATERRO SANITÃ $_{ m R}$ IO. Quimica Nova, 0, , .	0.3	0
61	Nanosponges for Carbon Dioxide Sequestration. Sustainable Agriculture Reviews, 2019, , 1-39.	0.6	0