

Moises Bastos-Neto

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,635
citations

279487

23
h-index

301761

39
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62
all docs

62
docs citations

62
times ranked

1783
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of coal fly ash treatments on synthesis of high-quality zeolite A as a potential additive for warm mix asphalt. <i>Materials Chemistry and Physics</i> , 2022, 275, 125197.	2.0	21
2	Deep learning analysis of Ar, Xe, Kr, and O ₂ adsorption on Activated Carbon and Zeolites using ANN approach. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022, 170, 108662.	1.8	18
3	Insights into optimized synthesis conditions of hollow microspheres of silica for water vapor adsorption. <i>Chemical Engineering Research and Design</i> , 2022, 177, 583-593.	2.7	2
4	Experimental and theoretical assessment of CO ₂ capture by adsorption on clinoptilolite. <i>Chemical Engineering Research and Design</i> , 2022, 177, 640-652.	2.7	10
5	Water adsorption and hydrothermal stability of CHA zeolites with different Si/Al ratios and compensating cations. <i>Catalysis Today</i> , 2022, 390-391, 99-108.	2.2	11
6	Neural network protocol to predict interfacial tension for CO ₂ /CH ₄ /Water-Brine ternary systems under reservoir temperature and pressure ranges. <i>Petroleum Science and Technology</i> , 2022, 40, 181-200.	0.7	2
7	LTA Zeolite Characterization Based on Pore Type Distribution. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 2268-2279.	1.8	8
8	Kaolinite-based zeolites synthesis and their application in CO ₂ capture processes. <i>Fuel</i> , 2022, 320, 123953.	3.4	15
9	Assessing mass transfer rates in porous adsorbents using gas adsorption microcalorimetry. <i>Chemical Engineering Science</i> , 2021, 229, 115983.	1.9	5
10	Siloxane adsorption by porous silica synthesized from residual sand of wastewater treatment. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104805.	3.3	14
11	Parametric Analysis of a Moving Bed Temperature Swing Adsorption (MBTSA) Process for Postcombustion CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 10736-10752.	1.8	16
12	High-temperature sorption of sodium vapors in typical outlet streams from biomass gasifiers. <i>Brazilian Journal of Chemical Engineering</i> , 2021, 38, 403.	0.7	0
13	Oxidation Behavior of Maraging 300 Alloy Exposed to Nitrogen/Water Vapor Atmosphere at 500 °C. <i>Metals</i> , 2021, 11, 1021.	1.0	2
14	H ₂ S and H ₂ O Combined Effect on CO ₂ Capture by Amino Functionalized Hollow Microsphere Silicas. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 10139-10154.	1.8	6
15	Performance of adsorption isotherms kernels of CO ₂ models for γ -alumina characterization. <i>Adsorption</i> , 2021, 27, 1035-1042.	1.4	0
16	Water adsorption in fresh and thermally aged zeolites: equilibrium and kinetics. <i>Adsorption</i> , 2021, 27, 1043-1053.	1.4	2
17	Activated Carbons for H ₂ S Capture. <i>Engineering Materials</i> , 2021, , 197-215.	0.3	0
18	Special issue on the 13th Brazilian meeting on adsorption. <i>Adsorption</i> , 2021, 27, 1001-1002.	1.4	0

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19	Insights into CO ₂ adsorption in amino-functionalized SBA-15 synthesized at different aging temperature. <i>Adsorption</i> , 2020, 26, 225-240.	1.4	36
20	Evaluation of the thermal regeneration of an amine-grafted mesoporous silica used for CO ₂ /N ₂ separation. <i>Adsorption</i> , 2020, 26, 203-215.	1.4	18
21	Adsorption microcalorimetry as a tool in the characterization of amine-grafted mesoporous silicas for CO ₂ capture. <i>Adsorption</i> , 2020, 26, 165-175.	1.4	23
22	Assessment of CO ₂ desorption from 13X zeolite for a prospective TSA process. <i>Adsorption</i> , 2020, 26, 813-824.	1.4	26
23	Ethylene adsorption on chitosan/zeolite composite films for packaging applications. <i>Food Packaging and Shelf Life</i> , 2020, 26, 100584.	3.3	28
24	Assessment of the potential use of zeolites synthesized from power plant fly ash to capture CO ₂ under post-combustion scenario. <i>Adsorption</i> , 2020, 26, 1153-1164.	1.4	14
25	Effect of ultramicropores on the mechanisms of H ₂ S retention from biogas. <i>Chemical Engineering Research and Design</i> , 2020, 154, 241-249.	2.7	11
26	Effect of Additives to Improve Calcium-Based Sorbents in Semi-Dry Flue Gas Desulphurization. <i>Emission Control Science and Technology</i> , 2020, 6, 105-112.	0.8	12
27	Representative Pores: An Efficient Method to Characterize Activated Carbons. <i>Frontiers in Chemistry</i> , 2020, 8, 595230.	1.8	10
28	CO ₂ adsorption capacity of zeolites synthesized from coal fly ashes. <i>Fuel</i> , 2020, 276, 118143.	3.4	62
29	Simulation of CO ₂ /CH ₄ high pressure separation on microporous activated carbon. <i>Chemical Engineering Communications</i> , 2019, 206, 1414-1425.	1.5	2
30	Investigation of premature aging of zeolites used in the drying of gas streams. <i>Chemical Engineering Communications</i> , 2019, 206, 1367-1374.	1.5	12
31	Nanosponges for Carbon Dioxide Sequestration. <i>Sustainable Agriculture Reviews</i> , 2019, , 1-39.	0.6	0
32	Assessing the potential of nanoporous carbon adsorbents from polyethylene terephthalate (PET) to separate CO ₂ from flue gas. <i>Adsorption</i> , 2018, 24, 279-291.	1.4	23
33	Pure and Binary Adsorption of Carbon Dioxide and Nitrogen on AQSOA FAM Z02. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 661-670.	1.0	11
34	Insights on the Mechanisms of H ₂ S Retention at Low Concentration on Impregnated Carbons. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 2248-2257.	1.8	22
35	Prediction of the monocomponent adsorption of H ₂ S and mixtures with CO ₂ and CH ₄ on activated carbons. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 559, 342-350.	2.3	28
36	Simple Procedure to Estimate Mass Transfer Coefficients from Uptake Curves on Activated Carbons. <i>Chemical Engineering and Technology</i> , 2018, 41, 1622-1630.	0.9	9

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37	CO ₂ Capture with Mesoporous Silicas Modified with Amines by Double Functionalization: Assessment of Adsorption/Desorption Cycles. <i>Materials</i> , 2018, 11, 887.	1.3	36
38	Microwave-assisted nitric acid treatment of sepiolite and functionalization with polyethylenimine applied to CO ₂ capture and CO ₂ /N ₂ separation. <i>Applied Surface Science</i> , 2017, 410, 315-325.	3.1	43
39	Preparation of biomass-based activated carbons and their evaluation for biogas upgrading purposes. <i>Industrial Crops and Products</i> , 2017, 109, 134-140.	2.5	65
40	Carbon Dioxide Capture by Pressure Swing Adsorption. <i>Energy Procedia</i> , 2017, 114, 2182-2192.	1.8	63
41	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 . <i>Energy & Fuels</i> , 2016, 30, 9596-9604.	2.5	64
42	Adsorption equilibria of CO ₂ and CH ₄ in cation-exchanged zeolites 13X. <i>Adsorption</i> , 2016, 22, 71-80.	1.4	79
43	CO ₂ /CH ₄ adsorption separation process using pore expanded mesoporous silicas functionalized by APTES grafting. <i>Adsorption</i> , 2015, 21, 565-575.	1.4	29
44	On the structural, textural and morphological features of Fe-based catalysts supported on polystyrene mesoporous carbon for Fischer-Tropsch synthesis. <i>Applied Catalysis A: General</i> , 2015, 495, 72-83.	2.2	20
45	Mineral sorbents for downstream sodium capture in biomass gasifiers. <i>Fuel Processing Technology</i> , 2015, 138, 629-636.	3.7	5
46	Evaluation of carbon dioxide-nitrogen separation through fixed bed measurements and simulations. <i>Adsorption</i> , 2014, 20, 945-957.	1.4	20
47	Studies on the adsorption behavior of CO ₂ -CH ₄ mixtures using activated carbon. <i>Brazilian Journal of Chemical Engineering</i> , 2013, 30, 939-951.	0.7	60
48	Assessment of hydrogen storage by physisorption in porous materials. <i>Energy and Environmental Science</i> , 2012, 5, 8294.	15.6	75
49	Adsorption Measurements of Nitrogen and Methane in Hydrogen-Rich Mixtures at High Pressures. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 10211-10221.	1.8	9
50	Adsorption equilibria of O ₂ , Ar, Kr and Xe on activated carbon and zeolites: single component and mixture data. <i>Adsorption</i> , 2011, 17, 371-383.	1.4	119
51	Dynamic bed measurements of CO adsorption on microporous adsorbents at high pressures for hydrogen purification processes. <i>Separation and Purification Technology</i> , 2011, 77, 251-260.	3.9	37
52	Breakthrough Curves of Methane at High Pressures for H ₂ Purification Processes. <i>Chemie-Ingenieur-Technik</i> , 2011, 83, 183-190.	0.4	6
53	Experimental analysis of the efficiency on charge/discharge cycles in natural gas storage by adsorption. <i>Fuel</i> , 2011, 90, 113-119.	3.4	47
54	H ₂ Reinigung - Experiment und Vorhersage. <i>Chemie-Ingenieur-Technik</i> , 2010, 82, 1573-1573.	0.4	0

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55	Adsorption Equilibria of Natural Gas Components on Activated Carbon: Pure and Mixed Gas Isotherms. <i>Adsorption Science and Technology</i> , 2008, 26, 323-332.	1.5	26
56	Effects of textural and surface characteristics of microporous activated carbons on the methane adsorption capacity at high pressures. <i>Applied Surface Science</i> , 2007, 253, 5721-5725.	3.1	88
57	Microporous activated carbon prepared from coconut shells using chemical activation with zinc chloride. <i>Microporous and Mesoporous Materials</i> , 2007, 100, 361-364.	2.2	165
58	A Theoretical and Experimental Study of Charge and Discharge Cycles in a Storage Vessel for Adsorbed Natural Gas. <i>Adsorption</i> , 2005, 11, 147-157.	1.4	50
59	Methane Adsorption Storage Using Microporous Carbons Obtained from Coconut Shells. <i>Adsorption</i> , 2005, 11, 911-915.	1.4	42
60	Zinc Ferrite Nanoparticles via Coprecipitation Modified Method: Glycerol as Structure Directing and Stabilizing Agent. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	6
61	ZEOLITA 4A PARA PURIFICAÇÃO DO GÁS DE ATERRO SANITÁRIO. <i>Quimica Nova</i> , 0, , .	0.3	0