

Isabel A A C Esteves

List of Publications by Year in descending order

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47
papers

1,139
citations

331259

21
h-index

395343

33
g-index

47
all docs

47
docs citations

47
times ranked

1339
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption of natural gas and biogas components on activated carbon. Separation and Purification Technology, 2008, 62, 281-296.	3.9	211
2	Evaluation of hydrothermal carbonization as a preliminary step for the production of functional materials from biogas digestate. Journal of Analytical and Applied Pyrolysis, 2017, 124, 461-474.	2.6	65
3	Adsorption equilibrium of carbon dioxide and nitrogen on the MIL-53(Al) metal organic framework. Separation and Purification Technology, 2015, 141, 150-159.	3.9	52
4	Natural convection heat transfer in horizontal eccentric elliptic annuli containing saturated porous media. International Journal of Heat and Mass Transfer, 2000, 43, 4367-4379.	2.5	51
5	Ionic Liquid-Impregnated Metal-Organic Frameworks for CO ₂ /CH ₄ Separation. ACS Applied Nano Materials, 2019, 2, 7933-7950.	2.4	51
6	Determination of the surface area and porosity of carbon nanotube bundles from a Langmuirian analysis of sub- and supercritical adsorption data. Carbon, 2009, 47, 948-956.	5.4	42
7	New adsorbents from maize cob wastes and anaerobic digestate for H ₂ S removal from biogas. Waste Management, 2019, 94, 136-145.	3.7	41
8	Simulation of a new hybrid membrane/pressure swing adsorption process for gas separation. Desalination, 2002, 148, 275-280.	4.0	40
9	CO ₂ /N ₂ gas separation using Fe(BTC)-based mixed matrix membranes: A view on the adsorptive and filler properties of metal-organic frameworks. Separation and Purification Technology, 2018, 202, 174-184.	3.9	39
10	Gas Separation by a Novel Hybrid Membrane/Pressure Swing Adsorption Process. Industrial & Engineering Chemistry Research, 2007, 46, 5723-5733.	1.8	37
11	Experimental and computational study of ethane and ethylene adsorption in the MIL-53(Al) metal organic framework. Microporous and Mesoporous Materials, 2016, 230, 154-165.	2.2	37
12	Binderless shaped metal-organic framework particles: Impact on carbon dioxide adsorption. Microporous and Mesoporous Materials, 2019, 275, 111-121.	2.2	36
13	Cr-based MOF/IL composites as fillers in mixed matrix membranes for CO ₂ separation. Separation and Purification Technology, 2021, 276, 119303.	3.9	34
14	Experimental and Theoretical Studies of Supercritical Methane Adsorption in the MIL-53(Al) Metal Organic Framework. Journal of Physical Chemistry C, 2011, 115, 20628-20638.	1.5	33
15	Adsorption of light alkanes and alkenes onto single-walled carbon nanotube bundles: Langmuirian analysis and molecular simulations. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 357, 43-52.	2.3	29
16	Synchronous and asynchronous SMB processes for gas separation. AIChE Journal, 2007, 53, 1192-1203.	1.8	27
17	Biomass Valorization to Produce Porous Carbons: Applications in CO ₂ Capture and Biogas Upgrading to Biomethane – A Mini-Review. Frontiers in Energy Research, 2021, 9, .	1.2	27
18	Dynamic modelling of an adsorption storage tank using a hybrid approach combining computational fluid dynamics and process simulation. Computers and Chemical Engineering, 2004, 28, 2421-2431.	2.0	26

#	ARTICLE	IF	CITATIONS
19	Maize cob waste pre-treatments to enhance biogas production through co-anaerobic digestion with OFMSW. <i>Waste Management</i> , 2018, 72, 193-205.	3.7	24
20	Evaluation of activated carbons produced from Maize Cob Waste for adsorption-based CO ₂ separation and biogas upgrading. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107065.	3.3	24
21	Biomethane production through anaerobic co-digestion with Maize Cob Waste based on a biorefinery concept: A review. <i>Journal of Environmental Management</i> , 2019, 249, 109351.	3.8	22
22	Paramagnetic Ionic Liquid/Metal Organic Framework Composites for CO ₂ /CH ₄ and CO ₂ /N ₂ Separations. <i>Frontiers in Chemistry</i> , 2020, 8, 590191.	1.8	22
23	Porous carbons derived from hydrothermally treated biogas digestate. <i>Waste Management</i> , 2020, 105, 170-179.	3.7	20
24	Simplified gauge-cell method and its application to the study of capillary phase transition of propane in carbon nanotubes. <i>Adsorption</i> , 2007, 13, 21-32.	1.4	19
25	Optimal Design and Experimental Assessment of Time-Variable Simulated Moving Bed for Gas Separation. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 6978-6988.	1.8	14
26	Development, Construction, and Operation of a Multisample Volumetric Apparatus for the Study of Gas Adsorption Equilibrium. <i>Journal of Chemical Education</i> , 2015, 92, 757-761.	1.1	13
27	Adsorption Equilibria of Light Organics on Single-Walled Carbon Nanotube Heterogeneous Bundles: Thermodynamical Aspects. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2622-2629.	1.5	9
28	Sorption characterization and actuation of a gas-gap heat switch. <i>Sensors and Actuators A: Physical</i> , 2011, 171, 324-331.	2.0	9
29	Two-column relay simulated moving-bed process for gas-phase separations. <i>Separation and Purification Technology</i> , 2017, 182, 19-28.	3.9	9
30	Impact of Ionic Liquid Structure and Loading on Gas Sorption and Permeation for ZIF-8-Based Composites and Mixed Matrix Membranes. <i>Membranes</i> , 2022, 12, 13.	1.4	9
31	Cryogenic neon adsorption on Co ₃ (ndc) ₃ (dabco) metal-organic framework. <i>Microporous and Mesoporous Materials</i> , 2020, 298, 110055.	2.2	8
32	Automatic Filtering and Reodorization of Adsorbed Natural Gas Storage Systems. <i>Adsorption</i> , 2005, 11, 905-910.	1.4	7
33	A Molecular Simulation Study of Propane and Propylene Adsorption onto Single-Walled Carbon Nanotube Bundles. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 2537-2546.	0.9	7
34	Neon Adsorption on HKUST-1 and UiO-66 Metal-Organic Frameworks over Wide Pressure and Temperature Ranges. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 5407-5414.	1.0	7
35	Life cycle analysis of a biorefinery for activated carbon and biomethane production. <i>Biomass and Bioenergy</i> , 2021, 149, 106080.	2.9	7
36	Adsorption of Carbon Dioxide, Methane, and Nitrogen on Zn(dcpa) Metal-Organic Framework. <i>Energies</i> , 2021, 14, 5598.	1.6	7

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37	Molecular Simulation of Adsorption Processes. 1. Isothermal Stirred-tank Adsorber. Molecular Simulation, 2004, 30, 387-396.	0.9	5
38	Hybrid Membrane/PSA Processes for CO ₂ /N ₂ Separation. Adsorption Science and Technology, 2007, 25, 693-715.	1.5	5
39	80 K vibration-free cooler for potential future Earth observation missions. IOP Conference Series: Materials Science and Engineering, 2020, 755, 012016.	0.3	4
40	Molecular Simulation of Gas Separation by Equilibrium-Based Adsorption Processes. Adsorption, 2005, 11, 319-324.	1.4	3
41	A Sensitive Method Approach for Chromatographic Analysis of Gas Streams in Separation Processes Based on Columns Packed with an Adsorbent Material. Advances in Materials Science and Engineering, 2016, 2016, 1-9.	1.0	3
42	Production of Biogas and bioH ₂ . , 2017, , 415-460.		2
43	Chapter 9. Novel Hybrid Membrane/Pressure Swing Adsorption Processes for Gas Separation Applications. , 2011, , 245-275.		1
44	Unveiling the Temperature Influence on the Sorptive Behaviour of ZIF-8 Composite Materials Impregnated with [CnMIM][B(CN) ₄] Ionic Liquids. Processes, 2022, 10, 247.	1.3	1
45	Dynamic modelling of an adsorption storage tank using a hybrid approach combining computational fluid dynamics and process simulation. Computer Aided Chemical Engineering, 2003, 14, 797-802.	0.3	0
46	ADSORPTION OF NATURAL GAS COMPONENTS ON ACTIVATED CARBON FOR GAS STORAGE APPLICATIONS. , 2003, , .		0
47	Life Cycle Analysis of a Biorefinery for Activated Carbon and Biomethane Production. SSRN Electronic Journal, 0, , .	0.4	0