Rui P P L Ribeiro

List of Publications by Year
in descending order

31 papers	996 citations	471061 17 h-index	433756 31 g-index
31 all docs	31 docs citations	31 times ranked	1214 citing authors

#	Article	IF	Citations
1	Adsorption of CO₂, CH₄, and N₂in Activated Carbon Honeycomb Monolith. Journal of Chemical & Engineering Data, 2008, 53, 2311-2317.	1.0	114
2	Electric swing adsorption as emerging CO2 capture technique. Energy Procedia, 2009, 1, 1219-1225.	1.8	87
3	Electric Swing Adsorption for Gas Separation and Purification: A Review. Separation Science and Technology, 2014, 49, 1985-2002.	1.3	73
4	Activated carbon honeycomb monolith â€“ Zeolite 13X hybrid system to capture CO2 from flue gases employing Electric Swing Adsorption. Chemical Engineering Science, 2013, 104, 304-318.	1.9	65
5	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
6	CO₂Capture from NGCC Power Stations using Electric Swing Adsorption (ESA). Energy & Fuels, 2009, 23, 2797-2803.	2.5	60
7	Absorption of Fluorinated Greenhouse Gases Using Fluorinated Ionic Liquids. Industrial & Engineering Chemistry Research, 2019, 58, 20769-20778.	1.8	55
8	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
9	Ionic Liquid-Impregnated Metalâ€“Organic Frameworks for CO₂/CH₄ Separation. ACS Applied Nano Materials, 2019, 2, 7933-7950.	2.4	51
10	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
11	Challenges of Electric Swing Adsorption for CO₂ Capture. ChemSusChem, 2010, 3, 892-898.	3.6	37
12	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
13	Binderless shaped metal-organic framework particles: Impact on carbon dioxide adsorption. Microporous and Mesoporous Materials, 2019, 275, 111-121.	2.2	36
14	Adsorption of fluorinated greenhouse gases on activated carbons: evaluation of their potential for gas separation. Journal of Chemical Technology and Biotechnology, 2020, 95, 1892-1905.	1.6	34
15	Cr-based MOF/IL composites as fillers in mixed matrix membranes for CO2 separation. Separation and Purification Technology, 2021, 276, 119303.	3.9	34
16	Electrothermal performance of an activated carbon honeycomb monolith. Chemical Engineering Research and Design, 2012, 90, 2013-2022.	2.7	29
17	Evaluation of activated carbons produced from Maize Cob Waste for adsorption-based CO2 separation and biogas upgrading. Journal of Environmental Chemical Engineering, 2022, 10, 107065.	3.3	24
18	3D-printed hybrid zeolitic/carbonaceous electrically conductive adsorbent structures. Chemical Engineering Research and Design, 2021, 174, 442-453.	2.7	17

#	Article	IF	Citations
19	Adsorption of Water Vapor on Carbon Molecular Sieve: Thermal and Electrothermal Regeneration Study. Industrial & Engineering Chemistry Research, 2011, 50, 2144-2156.	1.8	15
20	Development, Construction, and Operation of a Multisample Volumetric Apparatus for the Study of Gas Adsorption Equilibrium. Journal of Chemical Education, 2015, 92, 757-761.	1.1	13
21	Two-column relay simulated moving-bed process for gas-phase separations. Separation and Purification Technology, 2017, 182, 19-28.	3.9	9
22	Extrusion and Characterization of High Si/Al Ratio ZSM-5 Using Silica Binder. Energies, 2020, 13, 1201.	1.6	8
23	Cryogenic neon adsorption on Co3(ndc)3(dabco) metal-organic framework. Microporous and Mesoporous Materials, 2020, 298, 110055.	2.2	8
24	Neon Adsorption on HKUST-1 and UiO-66 Metalâ€“Organic Frameworks over Wide Pressure and Temperature Ranges. Journal of Chemical & Engineering Data, 2019, 64, 5407-5414.	1.0	7
25	Adsorption of Carbon Dioxide, Methane, and Nitrogen on Zn(dcpa) Metal-Organic Framework. Energies, 2021, 14, 5598.	1.6	7
26	Surface Area and Porosity of Co₃(ndc)₃(dabco) Metalâ€“Organic Framework and Its Methane Storage Capacity: A Combined Experimental and Simulation Study. Journal of Physical Chemistry C, 2021, 125, 2411-2423.	1.5	7
27	80 K vibration-free cooler for potential future Earth observation missions. IOP Conference Series: Materials Science and Engineering, 2020, 755, 012016.	0.3	4
28	Batch chromatography with recycle lag. Iiâ€”Physical realization and experimental validation. Journal of Chromatography A, 2020, 1623, 461211.	1.8	4
29	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
30	Batch chromatography with recycle lag. Iâ€”Concept and design. Journal of Chromatography A, 2020, 1623, 461199.	1.8	1
31	Special Issue â€œCO2 Capture and Renewable Energyâ€• Energies, 2022, 15, 5187.	1.6	1