

# Josã© A C Silva

## List of Publications by Year in descending order

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50  
papers

2,516  
citations

201385

27  
h-index

214527

47  
g-index

51  
all docs

51  
docs citations

51  
times ranked

2328  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomass/Biochar carbon materials for CO <sub>2</sub> capture and sequestration by cyclic adsorption processes: A review and prospects for future directions. <i>Journal of CO<sub>2</sub> Utilization</i> , 2022, 57, 101890.	3.3	82
2	3D-printed activated carbon for post-combustion CO <sub>2</sub> capture. <i>Microporous and Mesoporous Materials</i> , 2022, 335, 111818.	2.2	8
3	Separation of Branched Alkanes Feeds by a Synergistic Action of Zeolite and Metal-Organic Framework. <i>Advanced Science</i> , 2022, 9, .	5.6	21
4	Designing a simple volumetric apparatus for measuring gas adsorption equilibria and kinetics of sorption. Application and validation for CO <sub>2</sub> , CH <sub>4</sub> and N <sub>2</sub> adsorption in binder-free beads of 4A zeolite. <i>Chemical Engineering Journal</i> , 2021, 425, 130538.	6.6	34
5	Biomass as a source of adsorbents for CO <sub>2</sub> capture. , 2021, , 255-274.		8
6	Fixed Bed Adsorption of CO <sub>2</sub> , CH <sub>4</sub> , and N <sub>2</sub> and Their Mixtures in Potassium-Exchanged Binder-Free Beads of Y Zeolite. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 15236-15247.	1.8	7
7	Fixed bed dynamics of single and multicomponent adsorption of pentane and hexane isomers in ZIF-8. <i>Separation and Purification Technology</i> , 2020, 238, 116419.	3.9	16
8	Hexane isomers separation on an isorecticular series of microporous Zr carboxylate metal organic frameworks. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17780-17789.	5.2	15
9	Compost from Municipal Solid Wastes as a Source of Biochar for CO <sub>2</sub> Capture. <i>Chemical Engineering and Technology</i> , 2020, 43, 1336-1349.	0.9	40
10	Single- and Multicomponent Fixed Bed Adsorption of CO <sub>2</sub> , CH <sub>4</sub> , and N <sub>2</sub> in Binder-Free Beads of 4A Zeolite. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 13724-13734.	1.8	14
11	Novel Insights into Activated Carbon Derived from Municipal Solid Waste for CO <sub>2</sub> Uptake: Synthesis, Adsorption Isotherms and Scale-up. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104069.	3.3	32
12	Moving Bed Reactors: Challenges and Progress of Experimental and Theoretical Studies in a Century of Research. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 9179-9198.	1.8	34
13	Separation of Hexane Isomers in ZIF-8 by Fixed Bed Adsorption. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 378-394.	1.8	22
14	Analyses of Adsorption Behavior of CO <sub>2</sub> , CH <sub>4</sub> , and N <sub>2</sub> on Different Types of BETA Zeolites. <i>Chemical Engineering and Technology</i> , 2019, 42, 327-342.	0.9	36
15	Dynamics of a Fixed Bed Adsorption Column in the Kinetic Separation of Hexane Isomers in MOF ZIF-8. <i>Springer Proceedings in Mathematics and Statistics</i> , 2018, , 257-271.	0.1	0
16	CO <sub>2</sub> Capture in Chemically and Thermally Modified Activated Carbons Using Breakthrough Measurements: Experimental and Modeling Study. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 11154-11166.	1.8	42
17	Limitations of the Zero-Length Column Technique to Measure Diffusional Time Constants in Microporous Adsorbents. <i>Chemical Engineering and Technology</i> , 2015, 38, 2335-2339.	0.9	6
18	Adsorption Equilibrium and Dynamics of Fixed Bed Adsorption of CH <sub>4</sub> /N <sub>2</sub> in Binderless Beads of 5A Zeolite. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 6390-6399.	1.8	36

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19	Modelling the Fixed Bed Adsorption Dynamics of CO <sub>2</sub> /CH <sub>4</sub> in 13X Zeolite for Biogas Upgrading and CO <sub>2</sub> Sequestration. CIM Series in Mathematical Sciences, 2015, , 365-375.	0.4	0
20	Separation of Hexane Isomers on Rigid Porous Metal Carboxylate-Based Metal-Organic Frameworks. Adsorption Science and Technology, 2014, 32, 475-488.	1.5	14
21	Binary adsorption of CO <sub>2</sub> /CH <sub>4</sub> in binderless beads of 13X zeolite. Microporous and Mesoporous Materials, 2014, 187, 100-107.	2.2	67
22	Single and multicomponent adsorption of hexane isomers in the microporous ZIF-8. Microporous and Mesoporous Materials, 2014, 194, 146-156.	2.2	43
23	A Complete Separation of Hexane Isomers by a Functionalized Flexible Metal Organic Framework. Advanced Functional Materials, 2014, 24, 7666-7673.	7.8	81
24	Hexane isomers sorption on a functionalized metal-organic framework. Microporous and Mesoporous Materials, 2013, 170, 251-258.	2.2	29
25	Modeling adsorption equilibria of xylene isomers in a microporous metal-organic framework. Microporous and Mesoporous Materials, 2012, 155, 220-226.	2.2	27
26	Sorption and kinetics of CO <sub>2</sub> and CH <sub>4</sub> in binderless beads of 13X zeolite. Microporous and Mesoporous Materials, 2012, 158, 219-228.	2.2	107
27	Influence of the sodium and calcium non-framework cations on the adsorption of hexane isomers in zeolite BEA. Theoretical Chemistry Accounts, 2011, 128, 695-703.	0.5	6
28	Reverse shape selectivity in the adsorption of hexane and xylene isomers in MOF UiO-66. Microporous and Mesoporous Materials, 2011, 139, 67-73.	2.2	257
29	Zeolite Beta membranes for the separation of hexane isomers. Microporous and Mesoporous Materials, 2010, 128, 194-202.	2.2	20
30	Adsorption Dynamics of C <sub>5</sub> -C <sub>6</sub> Isomerate Fractions in Zeolite Beta for the Octane Improvement of Gasoline. Energy & Fuels, 2010, 24, 1931-1940.	2.5	28
31	Octane Upgrading of C <sub>5</sub> /C <sub>6</sub> Light Naphtha by Layered Pressure Swing Adsorption. Energy & Fuels, 2010, 24, 5116-5130.	2.5	18
32	Single- and Multicomponent Vapor-Phase Adsorption of Xylene Isomers and Ethylbenzene in a Microporous Metal-Organic Framework. Journal of Physical Chemistry C, 2009, 113, 13173-13179.	1.5	90
33	A Microporous Metal-Organic Framework for Separation of CO <sub>2</sub> /N <sub>2</sub> and CO <sub>2</sub> /CH <sub>4</sub> by Fixed-Bed Adsorption. Journal of Physical Chemistry C, 2008, 112, 1575-1581.	1.5	426
34	Single and Multicomponent Sorption of CO <sub>2</sub> , CH <sub>4</sub> and N <sub>2</sub> in a Microporous Metal-Organic Framework. Separation Science and Technology, 2008, 43, 3494-3521.	1.3	58
35	Separation of branched hexane isomers using zeolite BEA for the octane improvement of gasoline pool. Studies in Surface Science and Catalysis, 2007, 170, 955-960.	1.5	7
36	Separation of Branched Hexane Isomers on Zeolite BETA. Adsorption Science and Technology, 2007, 25, 169-183.	1.5	8

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37	Kinetic Separation of Hexane Isomers by Fixed-Bed Adsorption with a Microporous Metal-Organic Framework. <i>Journal of Physical Chemistry B</i> , 2007, 111, 6101-6103.	1.2	173
38	Multicomponent sorption of hexane isomers in zeolite BETA. <i>AIChE Journal</i> , 2007, 53, 1970-1981.	1.8	30
39	Separation by Fixed-Bed Adsorption of Hexane Isomers in Zeolite BETA Pellets. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 4316-4328.	1.8	51
40	Adsorption equilibrium and kinetics of branched hexane isomers in pellets of BETA zeolite. <i>Microporous and Mesoporous Materials</i> , 2005, 79, 145-163.	2.2	77
41	An Analytical Solution for the Analysis of Zero-Length-Column Experiments with Heat Effects. <i>Industrial &amp; Engineering Chemistry Research</i> , 2001, 40, 3697-3702.	1.8	15
42	Separation of n/iso paraffins by PSA. <i>Separation and Purification Technology</i> , 2000, 20, 97-110.	3.9	31
43	Effect of Coke in the Equilibrium and Kinetics of Sorption on 5A Molecular Sieve Zeolites. <i>Industrial &amp; Engineering Chemistry Research</i> , 2000, 39, 1030-1034.	1.8	7
44	A General Package for the Simulation of Cyclic Adsorption Processes. <i>Adsorption</i> , 1999, 5, 229-244.	1.4	130
45	Multisite Langmuir Model Applied to the Interpretation of Sorption of n-Paraffins in 5A Zeolite. <i>Industrial &amp; Engineering Chemistry Research</i> , 1999, 38, 2434-2438.	1.8	59
46	Fixed-bed adsorption of two linearly adsorbed components in presence of an inert. <i>Chemical Engineering Science</i> , 1998, 53, 3513-3520.	1.9	5
47	Separation of n/iso-paraffins mixtures by pressure swing adsorption. <i>Separation and Purification Technology</i> , 1998, 13, 195-208.	3.9	24
48	Sorption and Diffusion of n-Pentane in Pellets of 5A Zeolite. <i>Industrial &amp; Engineering Chemistry Research</i> , 1997, 36, 493-500.	1.8	71
49	Fixed-Bed Adsorption of n-Pentane/Isopentane Mixtures in Pellets of 5A Zeolite. <i>Industrial &amp; Engineering Chemistry Research</i> , 1997, 36, 3769-3777.	1.8	40
50	Equilibrium and kinetics of hexane sorption in pellets of 5A zeolite. <i>AIChE Journal</i> , 1997, 43, 2524-2534.	1.8	64