

Eloy S Sanz-PÃ©rez

List of Publications by Year in descending order

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28
papers

3,082
citations

393982

19
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500791

28
g-index

29
all docs

29
docs citations

29
times ranked

3513
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Capture of CO ₂ from Ambient Air. Chemical Reviews, 2016, 116, 11840-11876.	23.0	1,455
2	CO ₂ adsorption on branched polyethyleneimine-impregnated mesoporous silica SBA-15. Applied Surface Science, 2010, 256, 5323-5328.	3.1	230
3	Direct air capture: process technology, techno-economic and socio-political challenges. Energy and Environmental Science, 2022, 15, 1360-1405.	15.6	176
4	Amino functionalized mesostructured SBA-15 silica for CO ₂ capture: Exploring the relation between the adsorption capacity and the distribution of amino groups by TEM. Microporous and Mesoporous Materials, 2012, 158, 309-317.	2.2	135
5	CO ₂ adsorption performance of amino-functionalized SBA-15 under post-combustion conditions. International Journal of Greenhouse Gas Control, 2013, 17, 366-375.	2.3	107
6	CO ₂ capture with pore-expanded MCM-41 silica modified with amino groups by double functionalization. Microporous and Mesoporous Materials, 2015, 209, 165-171.	2.2	105
7	Development of high efficiency adsorbents for CO ₂ capture based on a double-functionalization method of grafting and impregnation. Journal of Materials Chemistry A, 2013, 1, 1956.	5.2	103
8	Influence of Drying Conditions on Amine-Functionalized SBA-15 as Adsorbent of CO ₂ . Topics in Catalysis, 2011, 54, 135-145.	1.3	100
9	Reuse and recycling of amine-functionalized silica materials for CO ₂ adsorption. Chemical Engineering Journal, 2017, 308, 1021-1033.	6.6	80
10	Tuning the textural properties of HMS mesoporous silica. Functionalization towards CO ₂ adsorption. Microporous and Mesoporous Materials, 2018, 260, 235-244.	2.2	77
11	Amino-functionalized pore-expanded SBA-15 for CO ₂ adsorption. Adsorption, 2013, 19, 589-600.	1.4	68
12	CO ₂ adsorption on amine-functionalized clays. Microporous and Mesoporous Materials, 2019, 282, 38-47.	2.2	66
13	CO ₂ Uptake and Adsorption Kinetics of Pore-Expanded SBA-15 Double-Functionalized with Amino Groups. Energy & Fuels, 2013, 27, 7637-7644.	2.5	57
14	New developments on carbon dioxide capture using amine-impregnated silicas. Adsorption, 2016, 22, 609-619.	1.4	41
15	CO ₂ Capture and Utilization Editorial. Industrial & Engineering Chemistry Research, 2020, 59, 6767-6772.	1.8	39
16	Comparative study of ASNase immobilization on tannic acid-modified magnetic Fe ₃ O ₄ /SBA-15 nanoparticles to enhance stability and reusability. New Journal of Chemistry, 2020, 44, 4440-4451.	1.4	37
17	Hybrid amine-silica materials: Determination of N content by ²⁹ Si NMR and application to direct CO ₂ capture from air. Chemical Engineering Journal, 2019, 373, 1286-1294.	6.6	34
18	Amine grafting of acid-activated bentonite for carbon dioxide capture. Applied Clay Science, 2019, 180, 105195.	2.6	23

#	ARTICLE	IF	CITATIONS
19	Bromine pre-functionalized porous polyphenylenes: New platforms for one-step grafting and applications in reversible CO ₂ capture. <i>Journal of CO₂ Utilization</i> , 2019, 30, 183-192.	3.3	23
20	Effect of acid activation on the CO ₂ adsorption capacity of montmorillonite. <i>Adsorption</i> , 2020, 26, 793-811.	1.4	21
21	An investigation of the textural properties of mesostructured silica-based adsorbents for predicting CO ₂ adsorption capacity. <i>RSC Advances</i> , 2015, 5, 103147-103154.	1.7	18
22	Preparation of a new chromatographic media and assessment of some kinetic and interaction parameters for lysozyme. <i>Journal of Molecular Liquids</i> , 2019, 276, 480-487.	2.3	18
23	Students' performance and perceptions on continuous assessment. Redefining a chemical engineering subject in the European higher education area. <i>Education for Chemical Engineers</i> , 2019, 28, 13-24.	2.8	17
24	Development of regenerable sorbents from abundant wastes for capture of CO ₂ . <i>Energy Procedia</i> , 2011, 4, 1118-1124.	1.8	16
25	Co-evaluation of interaction parameters of genomic and plasmid DNA for a new chromatographic medium. <i>International Journal of Biological Macromolecules</i> , 2019, 141, 1183-1190.	3.6	15
26	Effectiveness of amino-functionalized sorbents for CO ₂ capture in the presence of Hg. <i>Fuel</i> , 2020, 267, 117250.	3.4	13
27	Effect of Hg on CO ₂ capture by solid sorbents in the presence of acid gases. <i>Chemical Engineering Journal</i> , 2017, 312, 367-374.	6.6	7
28	The Importance of Measuring Students' Opinions and Attitudes. <i>Data</i> , 2019, 4, 43.	1.2	1