

Enrique Vilarrasa Garcia

List of Publications by Year in descending order

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48
papers

1,212
citations

361045

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h-index

377514

34
g-index

49
all docs

49
docs citations

49
times ranked

1283
citing authors

#	ARTICLE	IF	CITATIONS
1	Glyphosate adsorption onto porous clay heterostructure (PCH): kinetic and thermodynamic studies. Brazilian Journal of Chemical Engineering, 2022, 39, 903-917.	0.7	5
2	Insights into optimized synthesis conditions of hollow microspheres of silica for water vapor adsorption. Chemical Engineering Research and Design, 2022, 177, 583-593.	2.7	2
3	Kaolinite-based zeolites synthesis and their application in CO ₂ capture processes. Fuel, 2022, 320, 123953.	3.4	15
4	How Reproducible are Surface Areas Calculated from the BET Equation?. Advanced Materials, 2022, 34, .	11.1	82
5	CO ₂ selectivity in CO ₂ :CH ₄ and CO ₂ :N ₂ mixtures on carbon microfibers (CMFs) and carbon microspheres (CMSs). Fuel, 2022, 324, 124242.	3.4	7
6	CO ₂ Valorization and Its Subsequent Valorization. Molecules, 2021, 26, 500.	1.7	2
7	Synthesis of lipase/silica biocatalysts through the immobilization of CALB on porous SBA-15 and their application on the resolution of pharmaceutical derivatives and on nutraceutical enrichment of natural oil. Molecular Catalysis, 2021, 505, 111529.	1.0	7
8	Parametric Analysis of a Moving Bed Temperature Swing Adsorption (MBTSA) Process for Postcombustion CO ₂ Capture. Industrial & Engineering Chemistry Research, 2021, 60, 10736-10752.	1.8	16
9	Characterization Study of an Oxide Film Layer Produced under CO ₂ /Steam Atmospheres on Two Different Maraging Steel Grades. Metals, 2021, 11, 746.	1.0	5
10	H ₂ S and H ₂ O Combined Effect on CO ₂ Capture by Amino Functionalized Hollow Microsphere Silicas. Industrial & Engineering Chemistry Research, 2021, 60, 10139-10154.	1.8	6
11	Protein Adsorption onto Modified Porous Silica by Single and Binary Human Serum Protein Solutions. International Journal of Molecular Sciences, 2021, 22, 9164.	1.8	4
12	Water adsorption in fresh and thermally aged zeolites: equilibrium and kinetics. Adsorption, 2021, 27, 1043-1053.	1.4	2
13	Valorization of agricultural waste as a carbon materials for selective separation and storage of CO ₂ , H ₂ and N ₂ . Biomass and Bioenergy, 2021, 155, 106297.	2.9	13
14	Insights into CO ₂ adsorption in amino-functionalized SBA-15 synthesized at different aging temperature. Adsorption, 2020, 26, 225-240.	1.4	36
15	Evaluation of the thermal regeneration of an amine-grafted mesoporous silica used for CO ₂ /N ₂ separation. Adsorption, 2020, 26, 203-215.	1.4	18
16	Adsorption microcalorimetry as a tool in the characterization of amine-grafted mesoporous silicas for CO ₂ capture. Adsorption, 2020, 26, 165-175.	1.4	23
17	Assessing CO ₂ Adsorption on Amino-Functionalized Mesocellular Foams Synthesized at Different Aging Temperatures. Frontiers in Chemistry, 2020, 8, 591766.	1.8	15
18	Assessment of the potential use of zeolites synthesized from power plant fly ash to capture CO ₂ under post-combustion scenario. Adsorption, 2020, 26, 1153-1164.	1.4	14

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19	CO ₂ Adsorption of Materials Synthesized from Clay Minerals: A Review. Minerals (Basel, Switzerland), 2019, 9, 514.	0.8	51
20	Ferric sludge derived from the process of water purification as an efficient catalyst and/or support for the removal of volatile organic compounds. Chemosphere, 2019, 219, 286-295.	4.2	17
21	Nanosponges for Carbon Dioxide Sequestration. Sustainable Agriculture Reviews, 2019, , 1-39.	0.6	0
22	Assessing the potential of nanoporous carbon adsorbents from polyethylene terephthalate (PET) to separate CO ₂ from flue gas. Adsorption, 2018, 24, 279-291.	1.4	23
23	Synthesis, Characterization, Uses and Applications of Porous Clays Heterostructures: A Review. Chemical Record, 2018, 18, 1085-1104.	2.9	52
24	Pure and Binary Adsorption of Carbon Dioxide and Nitrogen on AQSOA FAM Z02. Journal of Chemical & Engineering Data, 2018, 63, 661-670.	1.0	11
25	Adsorption of biomolecules in porous silicas modified with zirconium. Effect of the textural properties and acidity. Microporous and Mesoporous Materials, 2018, 260, 146-154.	2.2	8
26	Polyamine-Grafted Magadiite: High CO ₂ Selectivity at Capture from CO ₂ /N ₂ and CO ₂ /CH ₄ Mixtures. Journal of CO ₂ Utilization, 2018, 23, 29-41.	3.3	23
27	Influence of buffer solutions in the adsorption of human serum proteins onto layered double hydroxide. International Journal of Biological Macromolecules, 2018, 106, 396-409.	3.6	23
28	Simple Procedure to Estimate Mass Transfer Coefficients from Uptake Curves on Activated Carbons. Chemical Engineering and Technology, 2018, 41, 1622-1630.	0.9	9
29	CO ₂ Capture with Mesoporous Silicas Modified with Amines by Double Functionalization: Assessment of Adsorption/Desorption Cycles. Materials, 2018, 11, 887.	1.3	36
30	Evaluation of two fibrous clay minerals (sepiolite and palygorskite) for CO ₂ Capture. Journal of Environmental Chemical Engineering, 2018, 6, 4573-4587.	3.3	60
31	Microwave-assisted nitric acid treatment of sepiolite and functionalization with polyethylenimine applied to CO ₂ capture and CO ₂ /N ₂ separation. Applied Surface Science, 2017, 410, 315-325.	3.1	43
32	Amino-modified pillared adsorbent from water-treatment solid wastes applied to CO ₂ /N ₂ separation. Adsorption, 2017, 23, 405-421.	1.4	16
33	Evaluation of porous clay heterostructures modified with amine species as adsorbent for the CO ₂ capture. Microporous and Mesoporous Materials, 2017, 249, 25-33.	2.2	63
34	Benzothiophene adsorption on M/SBA-15 and M/SBA-15/NH ₄ ⁺ modified (M = Fe or Co) in liquid phase batch system. Canadian Journal of Chemical Engineering, 2017, 95, 2315-2323.	0.9	6
35	Adsorption behavior of bovine serum albumin on Zn-Al and Mg-Al layered double hydroxides. Journal of Sol-Gel Science and Technology, 2016, 80, 748-758.	1.1	19
36	Functionalization of hollow silica microspheres by impregnation or grafted of amine groups for the CO ₂ capture. International Journal of Greenhouse Gas Control, 2016, 52, 344-356.	2.3	59

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37	The effect of structure modifying agents in the SBA-15 for its application in the biomolecules adsorption. Microporous and Mesoporous Materials, 2016, 232, 53-64.	2.2	48
38	Adsorption equilibria of CO ₂ and CH ₄ in cation-exchanged zeolites 13X. Adsorption, 2016, 22, 71-80.	1.4	79
39	CO ₂ /CH ₄ adsorption separation process using pore expanded mesoporous silicas functionalized by APTES grafting. Adsorption, 2015, 21, 565-575.	1.4	29
40	Low Cost Pore Expanded SBA-15 Functionalized with Amine Groups Applied to CO ₂ Adsorption. Materials, 2015, 8, 2495-2513.	1.3	48
41	CO ₂ adsorption on amine modified mesoporous silicas: Effect of the progressive disorder of the honeycomb arrangement. Microporous and Mesoporous Materials, 2015, 209, 172-183.	2.2	96
42	CO ₂ adsorption on APTES functionalized mesocellular foams obtained from mesoporous silicas. Microporous and Mesoporous Materials, 2014, 187, 125-134.	2.2	73
43	Synthesis and Characterization of Metal-Supported Mesoporous Silicas Applied to the Adsorption of Benzothiophene. Adsorption Science and Technology, 2011, 29, 691-704.	1.5	7
44	Thiophene Adsorption on Microporous Activated Carbons Impregnated with PdCl ₂ . Energy & Fuels, 2010, 24, 3436-3442.	2.5	34
45	Design of Activated Carbons from the Cellulose Fraction of Agricultural Waste. Applications in Selective Separation and Storage of Gases. SSRN Electronic Journal, 0, , .	0.4	0
46	ADSORÇÃO DE IMUNOGLOBULINAS G EM SILICAS MESOPOROSAS DO TIPO SBA 15. , 0, , .		0
47	ZEOLITA 4A PARA PURIFICAÇÃO DO GÁS DE ATERRO SANITÁRIO. Quimica Nova, 0, , .	0.3	0
48	AValiação preliminar do parâmetro termocinético para carbonos ativados. , 0, , .		0