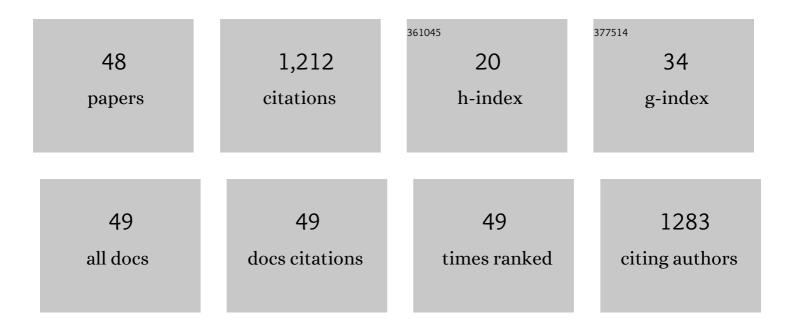
## Enrique Vilarrasa Garcia

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	CO2 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
2	How Reproducible are Surface Areas Calculated from the BET Equation?. Advanced Materials, 2022, 34,	11.1	82
3	Adsorption equilibria of CO2 and CH4 in cation-exchanged zeolites 13X. Adsorption, 2016, 22, 71-80.	1.4	79
4	CO2 adsorption on APTES functionalized mesocellular foams obtained from mesoporous silicas. Microporous and Mesoporous Materials, 2014, 187, 125-134.	2.2	73
5	Evaluation of porous clay heterostructures modified with amine species as adsorbent for the CO2 capture. Microporous and Mesoporous Materials, 2017, 249, 25-33.	2.2	63
6	Evaluation of two fibrous clay minerals (sepiolite and palygorskite) for CO2 Capture. Journal of Environmental Chemical Engineering, 2018, 6, 4573-4587.	3.3	60
7	Functionalization of hollow silica microspheres by impregnation or grafted of amine groups for the CO2 capture. International Journal of Greenhouse Gas Control, 2016, 52, 344-356.	2.3	59
8	Synthesis, Characterization, Uses and Applications of Porous Clays Heterostructures: A Review. Chemical Record, 2018, 18, 1085-1104.	2.9	52
9	CO2 Adsorption of Materials Synthesized from Clay Minerals: A Review. Minerals (Basel, Switzerland), 2019, 9, 514.	0.8	51
10	"Low Cost―Pore Expanded SBA-15 Functionalized with Amine Groups Applied to CO2 Adsorption. Materials, 2015, 8, 2495-2513.	1.3	48
11	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
12	Microwave-assisted nitric acid treatment of sepiolite and functionalization with polyethylenimine applied to CO2 capture and CO2/N2 separation. Applied Surface Science, 2017, 410, 315-325.	3.1	43
13	CO2 Capture with Mesoporous Silicas Modified with Amines by Double Functionalization: Assessment of Adsorption/Desorption Cycles. Materials, 2018, 11, 887.	1.3	36
14	Insights into CO2 adsorption in amino-functionalized SBA-15 synthesized at different aging temperature. Adsorption, 2020, 26, 225-240.	1.4	36
15	Thiophene Adsorption on Microporous Activated Carbons Impregnated with PdCl <sub>2</sub> . Energy & Fuels, 2010, 24, 3436-3442.	2.5	34
16	CO2/CH4 adsorption separation process using pore expanded mesoporous silicas functionalizated by APTES grafting. Adsorption, 2015, 21, 565-575.	1.4	29
17	Assessing the potential of nanoporous carbon adsorbents from polyethylene terephthalate (PET) to separate CO2 from flue gas. Adsorption, 2018, 24, 279-291.	1.4	23
18	Polyamine-Grafted Magadiite: High CO2 Selectivity at Capture from CO2/N2 and CO2/CH4 Mixtures. Journal of CO2 Utilization, 2018, 23, 29-41.	3.3	23

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19	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
20	Adsorption microcalorimetry as a tool in the characterization of amine-grafted mesoporous silicas for CO2 capture. Adsorption, 2020, 26, 165-175.	1.4	23
21	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
22	Evaluation of the thermal regeneration of an amine-grafted mesoporous silica used for CO2/N2 separation. Adsorption, 2020, 26, 203-215.	1.4	18
23	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
24	Amino-modified pillared adsorbent from water-treatment solid wastes applied to CO2/N2 separation. Adsorption, 2017, 23, 405-421.	1.4	16
25	Parametric Analysis of a Moving Bed Temperature Swing Adsorption (MBTSA) Process for Postcombustion CO <sub>2</sub> Capture. Industrial & Engineering Chemistry Research, 2021, 60, 10736-10752.	1.8	16
26	Assessing CO2 Adsorption on Amino-Functionalized Mesocellular Foams Synthesized at Different Aging Temperatures. Frontiers in Chemistry, 2020, 8, 591766.	1.8	15
27	Kaolinite-based zeolites synthesis and their application in CO2 capture processes. Fuel, 2022, 320, 123953.	3.4	15
28	Assessment of the potential use of zeolites synthesized from power plant fly ash to capture CO2 under post-combustion scenario. Adsorption, 2020, 26, 1153-1164.	1.4	14
29	Valorization of agricultural waste as a carbon materials for selective separation and storage of CO2, H2 and N2. Biomass and Bioenergy, 2021, 155, 106297.	2.9	13
30	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
31	Simple Procedure to Estimate Mass Transfer Coefficients from Uptake Curves on Activated Carbons. Chemical Engineering and Technology, 2018, 41, 1622-1630.	0.9	9
32	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
33	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
34	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
35	CO2 selectivity in CO2:CH4 and CO2:N2 mixtures on carbon microfibers (CMFs) and carbon microspheres (CMSs). Fuel, 2022, 324, 124242.	3.4	7

Benzothiophene adsorption on M/SBAâ€15 and M/SBAâ€15/NH<sub>4</sub>F modified (M = Fe or Co) in liquid phase batch system. Canadian Journal of Chemical Engineering, 2017, 95, 2315-2323. 6

#	Article	IF	CITATIONS
37	H <sub>2</sub> S and H <sub>2</sub> O Combined Effect on CO <sub>2</sub> Capture by Amino Functionalized Hollow Microsphere Silicas. Industrial & Engineering Chemistry Research, 2021, 60, 10139-10154.	1.8	6
38	Characterization Study of an Oxide Film Layer Produced under CO2/Steam Atmospheres on Two Different Maraging Steel Grades. Metals, 2021, 11, 746.	1.0	5
39	Glyphosate adsorption onto porous clay heterostructure (PCH): kinetic and thermodynamic studies. Brazilian Journal of Chemical Engineering, 2022, 39, 903-917.	0.7	5
40	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
41	CO2 Valorization and Its Subsequent Valorization. Molecules, 2021, 26, 500.	1.7	2
42	Water adsorption in fresh and thermally aged zeolites: equilibrium and kinetics. Adsorption, 2021, 27, 1043-1053.	1.4	2
43	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
44	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
45	ADSORÇÃ $f$ O DE IMUNOGLOBULINAS G EM SILICAS MESOPOROSAS DO TIPO SBA 15. , 0, , .		0
46	ZEÓLITA 4A PARA PURIFICAÇÃ $_f$ O DO GÃ $_{f S}$ DE ATERRO SANITÃRIO. Quimica Nova, 0, , .	0.3	0
47	AVALIAÇÃO PRELIMINAR DO PARÃ,METRO TERMOCINÉTICO PARA CARBONOS ATIVADOS. , 0, , .		0
48	Nanosponges for Carbon Dioxide Sequestration. Sustainable Agriculture Reviews, 2019, , 1-39.	0.6	0