

Clara Casado-Coterillo

List of Publications by Year in descending order

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59
papers

1,816
citations

257357

24
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276775

41
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61
all docs

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docs citations

61
times ranked

2226
citing authors

#	ARTICLE	IF	CITATIONS
1	Practical Approach to Zeolitic Membranes and Coatings: State of the Art, Opportunities, Barriers, and Future Perspectives. <i>Chemistry of Materials</i> , 2012, 24, 2829-2844.	3.2	332
2	HKUST-1 MOF: A matrix to synthesize CuO and CuO@CeO ₂ nanoparticle catalysts for CO oxidation. <i>Chemical Engineering Journal</i> , 2012, 195-196, 180-187.	6.6	108
3	Synthesis and characterisation of MOF/ionic liquid/chitosan mixed matrix membranes for CO ₂ /N ₂ separation. <i>RSC Advances</i> , 2015, 5, 102350-102361.	1.7	102
4	Pervaporative dehydration of industrial solvents using a zeolite NaA commercial membrane. <i>Separation and Purification Technology</i> , 2003, 32, 207-213.	3.9	93
5	Synthesis and Characterisation of ETS-10/Acetate-based Ionic Liquid/Chitosan Mixed Matrix Membranes for CO ₂ /N ₂ Permeation. <i>Membranes</i> , 2014, 4, 287-301.	1.4	51
6	Conversion of glucose to lactic acid derivatives with mesoporous Sn-MCM-41 and microporous titanosilicates. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1344-1350.	1.6	51
7	Chitosan:poly (vinyl) alcohol composite alkaline membrane incorporating organic ionomers and layered silicate materials into a PEM electrochemical reactor. <i>Journal of Membrane Science</i> , 2016, 498, 395-407.	4.1	44
8	Pervaporative dehydration of organic mixtures using a commercial silica membrane. <i>Separation and Purification Technology</i> , 2005, 42, 39-45.	3.9	43
9	Exfoliated Titanosilicate Material UZAR-51 Obtained from JDF-L1. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 159-163.	1.0	42
10	Chiral Imprinting with Amino Acids of Ordered Mesoporous Silica Exhibiting Enantioselectivity after Calcination. <i>Chemistry of Materials</i> , 2011, 23, 1280-1287.	3.2	42
11	Mixed matrix membranes for gas separation with special nanoporous fillers. <i>Desalination and Water Treatment</i> , 2011, 27, 42-47.	1.0	40
12	LTA/Poly(1-trimethylsilyl-1-propyne) Mixed Matrix Membranes for High Temperature CO ₂ /N ₂ Separation. <i>Chemical Engineering and Technology</i> , 2015, 38, 658-666.	0.9	39
13	Preparation and characterization of ITQ-29/polysulfone mixed-matrix membranes for gas separation: Effect of zeolite composition and crystal size. <i>Chemical Engineering Science</i> , 2012, 73, 116-122.	1.9	38
14	Permselectivity improvement in membranes for CO ₂ /N ₂ separation. <i>Separation and Purification Technology</i> , 2016, 157, 102-111.	3.9	37
15	Comparison of Flat and Hollow-Fiber Mixed-Matrix Composite Membranes for CO ₂ Separation with Temperature. <i>Chemical Engineering and Technology</i> , 2017, 40, 997-1007.	0.9	34
16	Layered titanosilicates JDF-L1 and AM-4 for biocide applications. <i>Applied Clay Science</i> , 2012, 56, 30-35.	2.6	31
17	Atomic Resolution Analysis of Microporous Titanosilicate ETS-10 through Aberration Corrected STEM Imaging. <i>ChemCatChem</i> , 2013, 5, 2595-2598.	1.8	31
18	Adsorption of Amino Acids (Ala, Cys, His, Met) on Zeolites: Fourier Transform Infrared and Raman Spectroscopy Investigations. <i>Astrobiology</i> , 2011, 11, 409-418.	1.5	30

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19	Melt Compounding of Swollen Titanosilicate JDF-L1 with Polysulfone To Obtain Mixed Matrix Membranes for H ₂ /CH ₄ Separation. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 1901-1907.	1.8	28
20	Advances in Hydrogen Separation and Purification with Membrane Technology. , 2013, , 245-268.		28
21	Mixed Matrix Membranes for O ₂ /N ₂ Separation: The Influence of Temperature. <i>Membranes</i> , 2016, 6, 28.	1.4	27
22	Comparison of SiO ₂ -ZrO ₂ -50% and commercial SiO ₂ membranes on the pervaporative dehydration of organic solvents. <i>Desalination</i> , 2006, 193, 97-102.	4.0	26
23	Pervaporation Technology for the Dehydration of Solvents and Raw Materials in the Process Industry. <i>Drying Technology</i> , 2007, 25, 1819-1828.	1.7	26
24	Synthesis and Characterization of Microporous ZrO ₂ Membranes for Gas Permeation at 200°C. <i>Separation Science and Technology</i> , 2011, 46, 1224-1230.	1.3	26
25	Dehydration of Industrial Ketonic Effluents by Pervaporation. Comparative Behavior of Ceramic and Polymeric Membranes. <i>Separation Science and Technology</i> , 2003, 38, 3473-3491.	1.3	25
26	Synthesis and characterization of microporous titanosilicate ETS-10 obtained with different Ti sources. <i>Materials Research Bulletin</i> , 2009, 44, 1225-1231.	2.7	25
27	Seeded synthesis of layered titanosilicate JDF-L1. <i>Materials Letters</i> , 2009, 63, 113-115.	1.3	24
28	l- and d-Proline Adsorption by Chiral Ordered Mesoporous Silica. <i>Langmuir</i> , 2012, 28, 6638-6644.	1.6	24
29	Synthesis and Characterization of ETS-10/Chitosan Nanocomposite Membranes for Pervaporation. <i>Separation Science and Technology</i> , 2014, 49, 1903-1909.	1.3	23
30	Adsorption of Adenine and Thymine on Zeolites: FT-IR and EPR Spectroscopy and X-Ray Diffractometry and SEM Studies. <i>Origins of Life and Evolution of Biospheres</i> , 2012, 42, 19-29.	0.8	22
31	Modelling of the pervaporative flux through hydrophilic membranes. <i>Journal of Chemical Technology and Biotechnology</i> , 2005, 80, 397-405.	1.6	21
32	Synthesis, Swelling, and Exfoliation of Microporous Lamellar Titanosilicate AM-4. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 2247-2253.	1.0	21
33	Effect of relative humidity on the gas transport properties of zeolite A/PTMSP mixed matrix membranes. <i>RSC Advances</i> , 2018, 8, 3536-3546.	1.7	21
34	Separation of CO ₂ -N ₂ gas mixtures: Membrane combination and temperature influence. <i>Separation and Purification Technology</i> , 2017, 188, 197-205.	3.9	20
35	Preparation and characterization of novel chitosan-based mixed matrix membranes resistant in alkaline media. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	19
36	Sustainable Membrane-Coated Electrodes for CO ₂ Electroreduction to Methanol in Alkaline Media. <i>ChemElectroChem</i> , 2019, 6, 5273-5282.	1.7	19

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37	Mixed Matrix Membranes. <i>Membranes</i> , 2019, 9, 149.	1.4	18
38	Hybrid Ionic Liquid-Chitosan Membranes for CO ₂ Separation: Mechanical and Thermal Behavior. <i>International Journal of Chemical Reactor Engineering</i> , 2016, 14, 713-718.	0.6	17
39	High Performance of Alkaline Anion-Exchange Membranes Based on Chitosan/Poly (vinyl) Alcohol Doped with Graphene Oxide for the Electrooxidation of Primary Alcohols. <i>Journal of Carbon Research</i> , 2016, 2, 10.	1.4	15
40	Adenine interaction with and adsorption on Fe-ZSM-5 zeolites: A prebiotic chemistry study using different techniques. <i>Microporous and Mesoporous Materials</i> , 2016, 226, 493-504.	2.2	13
41	Preparation and Identification of Optimal Synthesis Conditions for a Novel Alkaline Anion-Exchange Membrane. <i>Polymers</i> , 2018, 10, 913.	2.0	13
42	Development of exfoliated layered stannosilicate for hydrogen adsorption. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 13180-13188.	3.8	11
43	Effect of Humidity on CO ₂ /N ₂ and CO ₂ /CH ₄ Separation Using Novel Robust Mixed Matrix Composite Hollow Fiber Membranes: Experimental and Model Evaluation. <i>Membranes</i> , 2020, 10, 6.	1.4	11
44	Biopolymer-Based Mixed Matrix Membranes (MMMs) for CO ₂ /CH ₄ Separation: Experimental and Modeling Evaluation. <i>Membranes</i> , 2022, 12, 561.	1.4	11
45	Effect of Water and Organic Pollutant in CO ₂ /CH ₄ Separation Using Hydrophilic and Hydrophobic Composite Membranes. <i>Membranes</i> , 2020, 10, 405.	1.4	10
46	Chitosan: Polyvinyl alcohol based mixed matrix sustainable coatings for reusing composite membranes in water treatment: Fouling characterization. <i>Chemical Engineering Journal Advances</i> , 2022, 9, 100236.	2.4	10
47	Pervaporation and Gas Separation Using Microporous Membranes. <i>Membrane Science and Technology</i> , 2008, 13, 217-253.	0.5	8
48	Estimating CO ₂ /N ₂ Permselectivity through Si/Al = 5 Small-Pore Zeolites/PTMSP Mixed Matrix Membranes: Influence of Temperature and Topology. <i>Membranes</i> , 2018, 8, 32.	1.4	8
49	Multiobjective Optimization Based on "Distance-to-Target" Approach of Membrane Units for Separation of CO ₂ /CH ₄ . <i>Processes</i> , 2021, 9, 1871.	1.3	8
50	Propane and 1,3,5-triisopropylbenzene single gas adsorption on hollow silicalite-1 spheres. <i>Microporous and Mesoporous Materials</i> , 2009, 120, 69-75.	2.2	7
51	Chitosan Feasibility to Retain Retinal Stem Cell Phenotype and Slow Proliferation for Retinal Transplantation. <i>BioMed Research International</i> , 2014, 2014, 1-10.	0.9	6
52	Techno-Economic Optimization of Multistage Membrane Processes with Innovative Hollow Fiber Modules for the Production of High-Purity CO ₂ and CH ₄ from Different Sources. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 8149-8165.	1.8	6
53	Structural study on the Al distribution in zeolites Nu-6(1) and Nu-6(2). <i>Microporous and Mesoporous Materials</i> , 2011, 145, 211-216.	2.2	5
54	PERFORMANCE ASSESSMENT OF A POLYMER ELECTROLYTE MEMBRANE ELECTROCHEMICAL REACTOR UNDER ALKALINE CONDITIONS ~ A CASE STUDY WITH THE ELECTROOXIDATION OF ALCOHOLS. <i>Electrochimica Acta</i> , 2016, 206, 165-175.	2.6	4

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55	Pervaporative Dehydration of an Industrial Ketonic Solvent Using Ceramic Silica Membranes. Materials Research Society Symposia Proceedings, 2002, 752, 1.	0.1	2
56	An Analysis of Research on Membrane-Coated Electrodes in the 2001â€“2019 Period: Potential Application to CO2 Capture and Utilization. Catalysts, 2020, 10, 1226.	1.6	2
57	Funcionamiento de una membrana de zeolita 4-A comercial en la deshidrataci3n de disolventes industriales mediante pervaporaci3n. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2004, 43, 35-37.	0.9	2
58	Past, Present and Future of Membrane Technology in Spain. Membranes, 2021, 11, 808.	1.4	1
59	Study of alcohol diffusion through commercial anion exchange membranes for CO2 electrolyzers. , 0, , .		0