Alicia Carrero

List of Publications by Year
in descending order

57 papers	2,810 citations	186265 28 h-index	175258 52 g-index
58 all docs	58 docs citations	58 times ranked	2569 citing authors

#	Article	IF	Citations
1	Hydrogen production by ethanol steam reforming over Cuâ€“Ni supported catalysts. International Journal of Hydrogen Energy, 2007, 32, 1450-1461.	7.1	348
2	Hydrogen Production Technologies: From Fossil Fuels toward Renewable Sources. A Mini Review. Energy & Fuels, 2021, 35, 16403-16415.	5.1	286
3	Effect of Mg and Ca addition on coke deposition over Cuâ€“Ni/SiO2 catalysts for ethanol steam reforming. Chemical Engineering Journal, 2010, 163, 395-402.	12.7	148
4	Hydrogen production by ethanol steam reforming over Cu-Ni/SBA-15 supported catalysts prepared by direct synthesis and impregnation. Applied Catalysis A: General, 2007, 327, 82-94.	4.3	133
5	Hierarchical zeolites as catalysts for biodiesel production from Nannochloropsis microalga oil. Catalysis Today, 2011, 167, 148-153.	4.4	128
6	Ethanol steam reforming on Ni/Al2O3 catalysts: Effect of Mg addition. International Journal of Hydrogen Energy, 2008, 33, 3489-3492.	7.1	114
7	Hydrogen production by glycerol steam reforming over SBA-15-supported nickel catalysts: Effect of alkaline earth promoters on activity and stability. Catalysis Today, 2014, 227, 198-206.	4.4	113
8	Dealumination of HZSM-5 zeolites: Effect of steaming on acidity and aromatization activity. Applied Catalysis A: General, 1997, 154, 221-240.	4.3	102
9	Ethanol steam reforming on Mg- and Ca-modified Cuâ€“Ni/SBA-15 catalysts. Catalysis Today, 2009, 146, 63-70.	4.4	97
10	Ethanol steam reforming on Ni/Al-SBA-15 catalysts: Effect of the aluminium content. International Journal of Hydrogen Energy, 2010, 35, 5895-5901.	7.1	94
11	Comparison of ethanol steam reforming using Co and Ni catalysts supported on SBA-15 modified by Ca and Mg. Fuel Processing Technology, 2016, 146, 99-109.	7.2	94
12	Hydrogen production by steam reforming of ethanol using Ni catalysts based on ternary mixed oxides prepared by coprecipitation. International Journal of Hydrogen Energy, 2012, 37, 1985-1992.	7.1	83
13	Ce and La modification of mesoporous Cuâ€“Ni/SBA-15 catalysts for hydrogen production through ethanol steam reforming. Microporous and Mesoporous Materials, 2009, 119, 200-207.	4.4	76
14	Coke formation, location, nature and regeneration on dealuminated HZSM-5 type zeolites. Applied Catalysis A: General, 1997, 156, 299-317.	4.3	72
15	Production of Renewable Hydrogen from Glycerol Steam Reforming over Bimetallic Ni-(Cu,Co,Cr) Catalysts Supported on SBA-15 Silica. Catalysts, 2017, 7, 55.	3.5	65
16	Hydrogen production through glycerol steam reforming using Co catalysts supported on SBA-15 doped with Zr, Ce and La. Journal of Energy Chemistry, 2017, 26, 42-48.	12.9	56
17	Preparation, characterization and testing of Cr/AlSBA-15 ethylene polymerization catalysts. Applied Catalysis A: General, 2007, 316, 22-31.	4.3	45
18	Steam Reforming of Model Bio-Oil Aqueous Fraction Using Ni-(Cu, Co, Cr)/SBA-15 Catalysts. International Journal of Molecular Sciences, 2019, 20, 512.	4.1	42

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19	Ethylene polymerization over supported MAO/(nBuCp)2ZrCl2 catalysts: Influence of support properties. European Polymer Journal, 2007, 43, 1267-1277.	5.4	35
20	Synthesis of fatty acids methyl esters (FAMEs) from Nannochloropsis gaditana microalga using heterogeneous acid catalysts. Biochemical Engineering Journal, 2015, 97, 119-124.	3.6	34
21	Dealumination of ferrierite by ammonium hexafluorosilicate treatment: characterization and testing in the skeletal isomerization of n-butene. Applied Catalysis A: General, 2003, 248, 227-237.	4.3	33
22	One-step synthesis of chromium and aluminium containing SBA-15 materialsNew phillips catalysts for ethylene polymerization. Chemical Engineering Journal, 2008, 137, 443-452.	12.7	33
23	Slow crack growth resistance in resin blends of chromium and metallocene catalyzed ethyleneâ€hexene copolymers for pipe applications. Polymer Engineering and Science, 2008, 48, 925-933.	3.1	33
24	Effect of 1â€Hexene Comonomer on Polyethylene Particle Growth and Kinetic Profiles. Macromolecular Symposia, 2007, 259, 243-252.	0.7	32
25	Effect of Ce and Zr Addition to Ni/SiO2 Catalysts for Hydrogen Production through Ethanol Steam Reforming. Catalysts, 2015, 5, 58-76.	3.5	32
26	Effects of the structural components on slow crack growth process in polyethylene blends. Composition intervals prediction for pipe applications. Journal of Applied Polymer Science, 2011, 121, 3269-3276.	2.6	29
27	Characterization of Ethyleneâ€1â€Hexene Copolymers Made with Supported Metallocene Catalysts: Influence of Support Type. Macromolecular Symposia, 2007, 257, 103-111.	0.7	28
28	Development of novel chromium oxide/metallocene hybrid catalysts for bimodal polyethylene. Polymer, 2011, 52, 1891-1899.	3.8	28
29	Coke evolution in simulated bio-oil aqueous fraction steam reforming using Co/SBA-15. Catalysis Today, 2021, 367, 145-152.	4.4	25
30	Ethylene/1â€Hexene Copolymers Produced with MAO/(nBuCp)₂ZrCl₂ Supported on SBAâ€15 Materials with Different Pore Sizes. Macromolecular Chemistry and Physics, 2011, 212, 1590-1599.	2.2	24
31	Heterogeneous-catalysed direct transformation of microalga biomass into Biodiesel-Grade FAMEs. Fuel, 2017, 200, 590-598.	6.4	24
32	Chromium supported onto swelled Al-MCM-41 materials: a promising catalysts family for ethylene polymerization. Catalysis Communications, 2005, 6, 153-157.	3.3	23
33	Isomerization of n-butene over ferrierite zeolite modified by silicon tetrachloride treatment. Applied Catalysis A: General, 2000, 190, 93-105.	4.3	22
34	Chromium oxide/metallocene binary catalysts for bimodal polyethylene: Hydrogen effects. Chemical Engineering Journal, 2012, 213, 62-69.	12.7	22
35	Ethylene polymerization over (nBuCp)₂ZrCl₂/MAO catalytic system supported on aluminosilicate SBAâ€15 mesostructured materials. Polymer Engineering and Science, 2008, 48, 606-616.	3.1	21
36	Morphological modifications of Cr/SBA-15 and Cr/Al-SBA-15 ethylene polymerization catalysts: Influence on catalytic behaviour and polymer properties. Microporous and Mesoporous Materials, 2010, 131, 294-302.	4.4	20

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37	Hydrogen Production from Steam Reforming of Acetic Acid as a Model Compound of the Aqueous Fraction of Microalgae HTL Using Co-M/SBA-15 (M: Cu, Ag, Ce, Cr) Catalysts. Catalysts, 2019, 9, 1013.	3.5	19
38	Ethylene polymerization with methylaluminoxane/(nBuCp)₂ZrCl₂ catalyst supported on silica and silicaâ€alumina at different Al_{MAO}/Zr molar ratios. Journal of Applied Polymer Science, 2011, 120, 599-606.	2.6	16
39	Development of a new synthetic method based on in situ strategies for polyethylene/clay composites. Journal of Applied Polymer Science, 2012, 126, 987-997.	2.6	16
40	Liquidâ€“Liquid Phase Equilibria for Soybean Oil Methanolysis: Experimental, Modeling, and Data Prediction. Industrial & Engineering Chemistry Research, 2014, 53, 3731-3736.	3.7	16
41	Title is missing!. Catalysis Letters, 2000, 64, 239-246.	2.6	13
42	Hybrid zeolitic-mesostructured materials as supports of metallocene polymerization catalysts. Catalysis Today, 2012, 179, 115-122.	4.4	13
43	Methanol reforming by nanostructured Pd/Sm-doped ceria catalysts. Applied Catalysis B: Environmental, 2021, 286, 119935.	20.2	13
44	Ethylene Polymerization by Metallocene Catalysts Supported over Siliceous Materials with Bimodal Pore Size Distribution. Macromolecular Symposia, 2011, 302, 198-207.	0.7	12
45	Production of bimodal polyethylene on chromium oxide/metallocene binary catalyst: Evaluation of comonomer effects. Chemical Engineering Journal, 2017, 315, 46-57.	12.7	12
46	Agglomerated Coâ€“Cr/SBA-15 catalysts for hydrogen production through acetic acid steam reforming. International Journal of Hydrogen Energy, 2020, 45, 15941-15950.	7.1	11
47	Catalytic Behavior of Co-Based Catalysts in the Kinetic Study of Acetic Acid Steam Reforming. Industrial & Engineering Chemistry Research, 2020, 59, 19531-19538.	3.7	11
48	Study of the PENT test conditions for reducing failure times in high-resistance polyethylene resins for pipe applications. Mechanics of Time-Dependent Materials, 2012, 16, 105-115.	4.4	10
49	Bimodal Poly(propylene) through Binary Metallocene Catalytic Systems as an Alternative to Melt Blending. Macromolecular Symposia, 2012, 321-322, 46-52.	0.7	9
50	Effect of the incorporation of reducibility promoters (Cu, Ce, Ag) in Co/ <scp>CaSBA</scp> â€15 catalysts for acetic acid steam reforming. International Journal of Energy Research, 2021, 45, 1685-1702.	4.5	9
51	Bimodal polypropylene through binary metallocene catalytic systems: comparison between hybrid and mixed heterogeneous catalysts. Journal of Polymer Research, 2016, 23, 1.	2.4	8
52	Influence of stereospecificity and molecular weight on mechanical properties of iso-syndio-polypropylene obtained by combination of metallocene catalysts. European Polymer Journal, 2017, 90, 183-194.	5.4	8
53	Ethylene polymerization over chromium supported onto SBA-15 mesoporous materials. Studies in Surface Science and Catalysis, 2005, , 1453-1460.	1.5	6
54	Control of SBA-15 materials morphology by modification of synthesis conditions. Studies in Surface Science and Catalysis, 2008, 174, 321-324.	1.5	5

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55	Effective H2 Separation through Electroless Pore-Plated Pd Membranes Containing Graphite Lead Barriers. Membranes, 2020, 10, 410.	3.0	4
56	On the Support Effect and the Cr Promotion of Co Based Catalysts for the Acetic Acid Steam Reforming. Catalysts, 2021, 11, 133.	3.5	4
57	Evaluation of Bimodal Polyethylene from Chromium Oxide/Metallocene Hybrid Catalysts for High Resistance Applications. Macromolecular Reaction Engineering, 2020, 14, 2000032.	1.5	1