Amaya Romero Izquierdo

List of Publications by Year
in descending order

107	4,169	94381 37	133188 59
papers	citations	h-index	g-index

107	107	107	5073
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Carbon nanospheres: synthesis, physicochemical properties and applications. Journal of Materials Chemistry, 2011, 21, 1664-1672.	6.7	248
2	Preparation and Characterization of CaO Nanoparticles/NaX Zeolite Catalysts for the Transesterification of Sunflower Oil. Industrial & Engineering Chemistry Research, 2011, 50, 2665-2670.	1.8	236
3	Development of thermo-regulating textiles using paraffin wax microcapsules. Thermochimica Acta, 2010, 498, 16-21.	1.2	218
4	Microencapsulation of PCMs with a styrene-methyl methacrylate copolymer shell by suspension-like polymerisation. Chemical Engineering Journal, 2010, 157, 216-222.	6.6	181
5	CO₂ Capture in Different Carbon Materials. Environmental Science & Technology, 2012, 46, 7407-7414.	4.6	127
6	Influence of Different Improved Hummers Method Modifications on the Characteristics of Graphite Oxide in Order to Make a More Easily Scalable Method. Industrial & Engineering Chemistry Research, 2016, 55, 12836-12847.	1.8	118
7	Influence of the reduction strategy in the synthesis of reduced graphene oxide. Advanced Powder Technology, 2017, 28, 3195-3203.	2.0	116
8	Comparative study of different scalable routes to synthesize graphene oxide and reduced graphene oxide. Materials Chemistry and Physics, 2018, 203, 284-292.	2.0	92
9	Adsorption of phenol and nitrophenols by carbon nanospheres: Effect of pH and ionic strength. Separation and Purification Technology, 2011, 80, 217-224.	3.9	90
10	Methanation of CO, CO2 and selective methanation of CO, in mixtures of CO and CO2, over ruthenium carbon nanofibers catalysts. Applied Catalysis A: General, 2010, 390, 35-44.	2.2	89
11	Influence of the ion exchanged metal (Cu, Co, Ni and Mn) on the selective catalytic reduction of NOX over mordenite and ZSM-5. Journal of Molecular Catalysis A, 2005, 225, 47-58.	4.8	86
12	Cation exchanged and impregnated Ti-pillared clays for selective catalytic reduction of NOx by propylene. Applied Catalysis B: Environmental, 2003, 43, 43-56.	10.8	85
13	Gas phase hydrogenation of nitrobenzene over acid treated structured and amorphous carbon supported Ni catalysts. Applied Catalysis A: General, 2009, 363, 188-198.	2.2	83
14	Fischerâ€“Tropsch diesel production over calcium-promoted Co/alumina catalyst: Effect of reaction conditions. Fuel, 2011, 90, 1935-1945.	3.4	72
15	Effect of the operation conditions on the selective oxidation of glycerol with catalysts based on Au supported on carbonaceous materials. Chemical Engineering Journal, 2011, 178, 423-435.	6.6	70
16	Impact of nitrogen doping of carbon nanospheres on the nickel-catalyzed hydrogenation of butyronitrile. Journal of Catalysis, 2010, 269, 242-251.	3.1	67
17	Influence of the synthesis conditions on the preparation of titanium-pillared clays using hydrolyzed titanium ethoxide as the pillaring agent. Microporous and Mesoporous Materials, 2002, 54, 155-165.	2.2	61
18	Synthesis and characterization of Au supported on carbonaceous material-based catalysts for the selective oxidation of glycerol. Chemical Engineering Journal, 2011, 172, 418-429.	6.6	54

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19	Thermal and morphological stability of polystyrene microcapsules containing phaseâ€change materials. Journal of Applied Polymer Science, 2011, 120, 291-297.	1.3	53
20	Influence of the catalytic support on the industrial Fischerâ€“Tropsch synthetic diesel production. Catalysis Today, 2011, 176, 298-302.	2.2	52
21	Cobalt and iron supported on carbon nanofibers as catalysts for Fischerâ€“Tropsch synthesis. Fuel Processing Technology, 2014, 128, 417-424.	3.7	51
22	Solvent-Based Exfoliation via Sonication of Graphitic Materials for Graphene Manufacture. Industrial & Engineering Chemistry Research, 2016, 55, 845-855.	1.8	51
23	Hydrogen storage in different carbon materials: Influence of the porosity development by chemical activation. Applied Surface Science, 2012, 258, 2498-2509.	3.1	48
24	Î²-silicon carbide as a catalyst support in the Fischerâ€“Tropsch synthesis: Influence of the modification of the support by a pore agent and acidic treatment. Applied Catalysis A: General, 2014, 475, 82-89.	2.2	46
25	Effects of freeze-drying conditions on aerogel properties. Journal of Materials Science, 2016, 51, 8977-8985.	1.7	46
26	Immobilized laccase on polyimide aerogels for removal of carbamazepine. Journal of Hazardous Materials, 2019, 376, 83-90.	6.5	46
27	Influence of alkali promoters on synthetic diesel production over Co catalyst. Catalysis Today, 2011, 167, 96-106.	2.2	45
28	Kinetic models discrimination for the high pressure WGS reaction over a commercial CoMo catalyst. International Journal of Hydrogen Energy, 2011, 36, 9673-9684.	3.8	44
29	Catalytic oxidation of crude glycerol using catalysts based on Au supported on carbonaceous materials. Applied Catalysis A: General, 2013, 450, 189-203.	2.2	44
30	Influence of the activating agent and the inert gas (type and flow) used in an activation process for the porosity development of carbon nanofibers. Journal of Colloid and Interface Science, 2009, 336, 712-722.	5.0	43
31	Improving hydrogen storage in modified carbon materials. International Journal of Hydrogen Energy, 2012, 37, 4144-4160.	3.8	43
32	Direct synthesis of carbon and nitrogenâ€“carbon nanospheres from aromatic hydrocarbons. Chemical Engineering Journal, 2009, 153, 211-216.	6.6	42
33	The influence of operating conditions on the growth of carbon nanofibers on carbon nanofiber-supported nickel catalysts. Applied Catalysis A: General, 2007, 319, 246-258.	2.2	41
34	Performance of a sulfur-resistant commercial WGS catalyst employing industrial coal-derived syngas feed. International Journal of Hydrogen Energy, 2011, 36, 44-51.	3.8	41
35	Electrochemical promotion of the CO2 hydrogenation reaction on composite Ni or Ru impregnated carbon nanofiber catalyst-electrodes deposited on YSZ. Applied Catalysis B: Environmental, 2011, 107, 210-220.	10.8	39
36	Growth of Carbon Nanofibers from Ni/Y Zeolite Based Catalysts:Â Effects of Ni Introduction Method, Reaction Temperature, and Reaction Gas Composition. Industrial & Engineering Chemistry Research, 2005, 44, 8225-8236.	1.8	38

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37	Pilot Plant Scale Study of the Influence of the Operating Conditions in the Production of Carbon Nanofibers. Industrial & Engineering Chemistry Research, 2009, 48, 8407-8417.	1.8	38
38	Influence of CO2 co-feeding on Fischerâ€“Tropsch fuels production over carbon nanofibers supported cobalt catalyst. Catalysis Communications, 2014, 44, 57-61.	1.6	35
39	Linear and crosslinked polyimide aerogels: synthesis and characterization. Journal of Materials Research and Technology, 2019, 8, 2638-2648.	2.6	35
40	Hydrogen production by ammonia decomposition over ruthenium supported on SiC catalyst. Journal of Industrial and Engineering Chemistry, 2021, 94, 326-335.	2.9	35
41	Ti-pillared clays: synthesis and general characterization. Clays and Clay Minerals, 2006, 54, 737-747.	0.6	34
42	Copper ion-exchanged and impregnated Fe-pillared claysStudy of the influence of the synthesis conditions on the activity for the selective catalytic reduction of NO with C3H6. Applied Catalysis A: General, 2006, 305, 189-196.	2.2	33
43	FTS fuels production over different Co/SiC catalysts. Catalysis Today, 2012, 187, 173-182.	2.2	33
44	Synthesis of carbon nanofibers supported cobalt catalysts for Fischerâ€“Tropsch process. Fuel, 2013, 111, 422-429.	3.4	33
45	Preparation and characterization of Fe-PILCs. Influence of the synthesis parameters. Clays and Clay Minerals, 2005, 53, 613-621.	0.6	32
46	Photocatalysis with Ti-pillared clays for the oxofunctionalization of alkylaromatics by O2. Applied Catalysis A: General, 2009, 352, 234-242.	2.2	32
47	Hydrogen storage capacity on different carbon materials. Chemical Physics Letters, 2010, 485, 152-155.	1.2	32
48	Study by in situ FTIR of the SCR of NO by propene on Cu2+ ion-exchanged Ti-PILC. Journal of Molecular Catalysis A, 2005, 230, 23-28.	4.8	30
49	PVA/nanoclay/graphene oxide aerogels with enhanced sound absorption properties. Applied Acoustics, 2019, 156, 40-45.	1.7	30
50	Influence of the nature of the metal hydroxide in the porosity development of carbon nanofibers. Journal of Colloid and Interface Science, 2009, 336, 226-234.	5.0	29
51	PREPARATION AND CHARACTERIZATION OF Ti-PILLARED CLAYS USING Ti ALKOXIDES. INFLUENCE OF THE SYNTHESIS PARAMETERS. Clays and Clay Minerals, 2003, 51, 41-51.	0.6	27
52	Electrocatalytic conversion of CO 2 to added-value chemicals in a high-temperature proton-exchange membrane reactor. Electrochemistry Communications, 2017, 81, 128-131.	2.3	27
53	Effect of the nature the carbon precursor on the physico-chemical characteristics of the resulting activated carbon materials. Materials Chemistry and Physics, 2010, 124, 223-233.	2.0	26
54	Synthesis and structural characteristics of highly graphitized carbon nanofibers produced from the catalytic decomposition of ethylene: Influence of the active metal (Co, Ni, Fe) and the zeolite type support. Microporous and Mesoporous Materials, 2008, 110, 318-329.	2.2	25

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55	Influence of Cobalt Precursor on Efficient Production of Commercial Fuels over FTS Co/SiC Catalyst. Catalysts, 2016, 6, 98.	1.6	24
56	Influence of the chemical activation of carbon nanofibers on their use as catalyst support. Applied Catalysis A: General, 2011, 393, 78-87.	2.2	23
57	Catalytic synthesis of carbon nanofibers with different graphene plane alignments using Ni deposited on iron pillared clays. Applied Catalysis A: General, 2006, 301, 123-132.	2.2	22
58	Influence of the activation conditions on the porosity development of herringbone carbon nanofibers. Chemical Engineering Journal, 2009, 155, 931-940.	6.6	22
59	Hydroxyethyl cellulose/alumina-based aerogels as lightweight insulating materials with high mechanical strength. Journal of Materials Science, 2018, 53, 1556-1567.	1.7	22
60	Ammonia as a carrier for hydrogen production by using lanthanum based perovskites. Energy Conversion and Management, 2021, 246, 114681.	4.4	22
61	Nanoclay-Based PVA Aerogels: Synthesis and Characterization. Industrial & Engineering Chemistry Research, 2018, 57, 6218-6225.	1.8	21
62	Optimization of the synthesis procedure of microparticles containing gold for the selective oxidation of glycerol. Applied Catalysis A: General, 2014, 472, 11-20.	2.2	20
63	Carbon nanofibers and nanospheres-supported bimetallic (Co and Fe) catalysts for the Fischerâ€“Tropsch synthesis. Fuel Processing Technology, 2015, 138, 455-462.	3.7	20
64	CNF-reinforced polymer aerogels: Influence of the synthesis variables and economic evaluation. Chemical Engineering Journal, 2015, 262, 691-701.	6.6	20
65	Role of inert gas in the Cvd-graphene synthesis over polycrystalline nickel foils. Materials Chemistry and Physics, 2019, 222, 173-180.	2.0	20
66	Utilization and reusability of hydroxyethyl cellulose alumina based aerogels for the removal of spilled oil. Chemosphere, 2020, 260, 127568.	4.2	20
67	Biodiesel Production from Waste Cooking Oil Catalyzed by a Bifunctional Catalyst. ACS Omega, 2021, 6, 24092-24105.	1.6	20
68	Self-combustion Ni and Co-based perovskites as catalyst precursors for ammonia decomposition. Effect of Ce and Mg doping. Fuel, 2022, 323, 124384.	3.4	19
69	SCR of NO by Propene on Monometallic (Co or Ni) and Bimetallic (Co/Ag or Ni/Ag) Mordenite-Based Catalysts. Industrial & Engineering Chemistry Research, 2005, 44, 8988-8996.	1.8	18
70	Preparation of Cu-ion-exchanged Fe-PILCs for the SCR of NO by propene. Applied Catalysis B: Environmental, 2006, 65, 175-184.	10.8	18
71	Different strategies to simultaneously N-doping and reduce graphene oxide for electrocatalytic applications. Journal of Electroanalytical Chemistry, 2020, 857, 113695.	1.9	18
72	Synthesis and Characterization of Nitrogen-Doped Carbon Nanospheres Decorated with Au Nanoparticles for the Liquid-Phase Oxidation of Glycerol. Industrial & Engineering Chemistry Research, 2014, 53, 16696-16706.	1.8	17

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73	Thickness control of graphene deposited over polycrystalline nickel. New Journal of Chemistry, 2015, 39, 4414-4423.	1.4	17
74	COx-free hydrogen production from ammonia at low temperature using Co/SiC catalyst: Effect of promoter. Catalysis Today, 2022, 390-391, 34-47.	2.2	17
75	Influence of the Operating Parameters on the Selective Catalytic Reduction of NO with Hydrocarbons Using Cu-Ion-Exchanged Titanium-Pillared Interlayer Clays (Ti-PILCs). Industrial & Engineering Chemistry Research, 2005, 44, 2955-2965.	1.8	16
76	Preparation of coated thermoâ€regulating textiles using Rubithermâ€RT31 microcapsules. Journal of Applied Polymer Science, 2012, 124, 4809-4818.	1.3	15
77	Smart microcapsules containing nonpolar chemical compounds and carbon nanofibers. Chemical Engineering Journal, 2012, 181-182, 813-822.	6.6	15
78	High pressure Water Gas Shift performance over a commercial non-sulfide CoMo catalyst using industrial coal-derived syngas. Fuel, 2012, 97, 428-434.	3.4	15
79	Growth of nitrogen-doped filamentous and spherical carbon over unsupported and Y zeolite supported nickel and cobalt catalysts. Chemical Engineering Journal, 2008, 144, 518-530.	6.6	13
80	Hydrocarbon selective catalytic reduction of NO over Cu/Fe-pillared clays: Diffuse reflectance infrared spectroscopy studies. Journal of Molecular Catalysis A, 2010, 332, 45-52.	4.8	13
81	Influence of the Addition of a Second Metal on the Catalytic Performance of Pt-Beta Agglomerated Catalyst in the Hydroisomerization of n-Octane. Catalysis Letters, 2008, 125, 220-228.	1.4	12
82	Pyrolysis and combustion kinetics of microcapsules containing carbon nanofibers by thermal analysisâ€“mass spectrometry. Journal of Analytical and Applied Pyrolysis, 2012, 94, 246-252.	2.6	12
83	Tailor-Made Aerogels Based on Carbon Nanofibers by Freeze-Drying. Science of Advanced Materials, 2014, 6, 665-673.	0.1	12
84	Improving the growth of monolayer CVD-graphene over polycrystalline iron sheets. New Journal of Chemistry, 2017, 41, 5066-5074.	1.4	12
85	Influence of a Zeolite-Based Cascade Layer on Fischerâ€“Tropsch Fuels Production over Silicon Carbide Supported Cobalt Catalyst. Topics in Catalysis, 2017, 60, 1082-1093.	1.3	12
86	New catalysts based on reduced graphene oxide for hydrogen production from ammonia decomposition. Sustainable Chemistry and Pharmacy, 2022, 25, 100615.	1.6	12
87	Characterization and Catalytic Properties of Titanium-Pillared Clays Prepared at Laboratory and Pilot Scales:Â A Comparative Study. Industrial & Engineering Chemistry Research, 2003, 42, 2783-2790.	1.8	11
88	Carbon nanospheres as novel support in the nickel catalyzed gas phase hydrogenation of butyronitrile. Applied Catalysis A: General, 2010, 373, 192-200.	2.2	11
89	Synthesis and characterization of ruthenium supported on carbon nanofibers with different graphitic plane arrangements. Chemical Engineering Journal, 2011, 168, 947-954.	6.6	11
90	CVD-graphene growth on different polycrystalline transition metals. AIMS Materials Science, 2017, 4, 194-208.	0.7	11

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91	Influence of palladium incorporation technique on n-butane hydroisomerization over HZSM-5/bentonite catalysts. Applied Catalysis A: General, 2004, 274, 79-85.	2.2	10
92	Materials for activated carbon fiber synthesis. , 2017, , 21-38.		10
93	Optimization of the catalytic support and membrane for the electrochemical reforming of ethanol in alkaline media. Journal of Chemical Technology and Biotechnology, 2019, 94, 3698-3705.	1.6	9
94	The influence of graphite particle size on the synthesis of graphene-based materials and their adsorption capacity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 582, 123935.	2.3	8
95	Towards new routes to increase the electrocatalytic activity for oxygen reduction reaction of n-doped graphene nanofibers. Journal of Electroanalytical Chemistry, 2020, 878, 114631.	1.9	8
96	Nano-Scale Au Supported on Carbon Materials for the Low Temperature Water Gas Shift (WGS) Reaction. Catalysts, 2011, 1, 155-174.	1.6	7
97	Influence of the oxidizing agent in the synthesis of graphite oxide. Journal of Materials Science, 2020, 55, 2333-2342.	1.7	7
98	Stabilizer effects on the synthesis of gold-containing microparticles. Application to the liquid phase oxidation of glycerol. Journal of Colloid and Interface Science, 2014, 431, 105-111.	5.0	6
99	Pilot Plant Scale Synthesis of CNS: Influence of the Operating Conditions. Industrial & Engineering Chemistry Research, 2012, 51, 6745-6752.	1.8	5
100	Nickel supported carbon nanofibers as an active and selective catalyst for the gas-phase hydrogenation of 2-tert-butylphenol. Journal of Colloid and Interface Science, 2012, 380, 173-181.	5.0	5
101	Improvement of the mechanical and flame-retardant properties of polyetherimide membranes modified with Graphene oxide. Polymer-Plastics Technology and Materials, 2019, 58, 1170-1177.	0.6	5
102	Influence of the Total Gas Flow at Different Reaction Times for CVD-Graphene Synthesis on Polycrystalline Nickel. Journal of Nanomaterials, 2016, 2016, 1-9.	1.5	4
103	Selective catalytic reduction of NO by propene in the presence of oxygen and water over catalysts prepared by the modified solâ€“gel method. Catalysis Communications, 2007, 8, 736-740.	1.6	3
104	Influence of the synthesis method on electrical storage capacity of graphene-related materials. Materials Science and Technology, 2019, 35, 361-367.	0.8	3
105	Taylor-made aerogels through a freeze-drying process: economic assessment. Journal of Sol-Gel Science and Technology, 2019, 89, 436-447.	1.1	2
106	Synthesis, Characterization and Catalytic Application of Gold-Containing Materials. Science of Advanced Materials, 2013, 5, 1907-1915.	0.1	1
107	Comparison of nanoclay/polyvinyl alcohol aerogels scale production: Life Cycle Assessment. Chemical Engineering Research and Design, 2021, 176, 243-253.	2.7	1