Amaya Romero Izquierdo

List of Publications by Year in Descending Order

106 papers	3,181 citations	34 h-index	51 g-index
107 ext. papers	3,550 ext. citations	6.2 avg, IF	5.23 L-index

#	Paper	IF	Citations
106	New catalysts based on reduced graphene oxide for hydrogen production from ammonia decomposition. *Sustainable Chemistry and Pharmacy*, **2022**, 25, 100615	3.9	1
105	Self-combustion Ni and Co-based perovskites as catalyst precursors for ammonia decomposition. Effect of Ce and Mg doping. *Fuel*, **2022**, 323, 124384	7.1	2
104	COx-free hydrogen production from ammonia at low temperature using Co/SiC catalyst: Effect of promoter. *Catalysis Today*, **2021**,	5.3	3
103	Comparison of nanoclay/polyvinyl alcohol aerogels scale production: Life Cycle Assessment. *Chemical Engineering Research and Design*, **2021**, 176, 243-253	5.5	
102	Hydrogen production by ammonia decomposition over ruthenium supported on SiC catalyst. *Journal of Industrial and Engineering Chemistry*, **2021**, 94, 326-335	6.3	11
101	Biodiesel Production from Waste Cooking Oil Catalyzed by a Bifunctional Catalyst. *ACS Omega*, **2021**, 6, 24092-24105	3.9	4
100	Ammonia as a carrier for hydrogen production by using lanthanum based perovskites. *Energy Conversion and Management*, **2021**, 246, 114681	10.6	5
99	Different strategies to simultaneously N-doping and reduce graphene oxide for electrocatalytic applications. *Journal of Electroanalytical Chemistry*, **2020**, 857, 113695	4.1	10
98	Towards new routes to increase the electrocatalytic activity for oxygen reduction reaction of n-doped graphene nanofibers. *Journal of Electroanalytical Chemistry*, **2020**, 878, 114631	4.1	4
97	Utilization and reusability of hydroxyethyl cellulose alumina based aerogels for the removal of spilled oil. *Chemosphere*, **2020**, 260, 127568	8.4	12
96	Influence of the oxidizing agent in the synthesis of graphite oxide. *Journal of Materials Science*, **2020**, 55, 2333-2342	4.3	5
95	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	5.1	7
94	Influence of the synthesis method on electrical storage capacity of graphene-related materials. *Materials Science and Technology*, **2019**, 35, 361-367	1.5	2
93	Linear and crosslinked polyimide aerogels: synthesis and characterization. *Journal of Materials Research and Technology*, **2019**, 8, 2638-2648	5.5	12
92	Immobilized laccase on polyimide aerogels for removal of carbamazepine. *Journal of Hazardous Materials*, **2019**, 376, 83-90	12.8	27
91	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	3.5	7
90	PVA/nanoclay/graphene oxide aerogels with enhanced sound absorption properties. *Applied Acoustics*, **2019**, 156, 40-45	3.1	12

89	Taylor-made aerogels through a freeze-drying process: economic assessment. *Journal of Sol-Gel Science and Technology*, **2019**, 89, 436-447	2.3	1
88	Improvement of the mechanical and flame-retardant properties of polyetherimide membranes modified with Graphene oxide. *Polymer-Plastics Technology and Materials*, **2019**, 58, 1170-1177	1.5	5
87	Role of inert gas in the Cvd-graphene synthesis over polycrystalline nickel foils. *Materials Chemistry and Physics*, **2019**, 222, 173-180	4.4	14
86	Nanoclay-Based PVA Aerogels: Synthesis and Characterization. *Industrial & Engineering Chemistry Research*, **2018**, 57, 6218-6225	3.9	14
85	Comparative study of different scalable routes to synthesize graphene oxide and reduced graphene oxide. *Materials Chemistry and Physics*, **2018**, 203, 284-292	4.4	56
84	Hydroxyethyl cellulose/alumina-based aerogels as lightweight insulating materials with high mechanical strength. *Journal of Materials Science*, **2018**, 53, 1556-1567	4.3	17
83	Improving the growth of monolayer CVD-graphene over polycrystalline iron sheets. *New Journal of Chemistry*, **2017**, 41, 5066-5074	3.6	9
82	Influence of a Zeolite-Based Cascade Layer on Fischer□ropsch Fuels Production over Silicon Carbide Supported Cobalt Catalyst. *Topics in Catalysis*, **2017**, 60, 1082-1093	2.3	12
81	Electrocatalytic conversion of CO2 to added-value chemicals in a high-temperature proton-exchange membrane reactor. *Electrochemistry Communications*, **2017**, 81, 128-131	5.1	19
80	Influence of the reduction strategy in the synthesis of reduced graphene oxide. *Advanced Powder Technology*, **2017**, 28, 3195-3203	4.6	64
79	Materials for activated carbon fiber synthesis **2017**, 21-38		6
78	CVD-graphene growth on different polycrystalline transition metals. *AIMS Materials Science*, **2017**, 4, 194-208	1.9	8
77	Effects of freeze-drying conditions on aerogel properties. *Journal of Materials Science*, **2016**, 51, 8977-8985	4.3	29
76	Solvent-Based Exfoliation via Sonication of Graphitic Materials for Graphene Manufacture. *Industrial & Engineering Chemistry Research*, **2016**, 55, 845-855	3.9	43
75	Influence of the Total Gas Flow at Different Reaction Times for CVD-Graphene Synthesis on Polycrystalline Nickel. *Journal of Nanomaterials*, **2016**, 2016, 1-9	3.2	4
74	Influence of Cobalt Precursor on Efficient Production of Commercial Fuels over FTS Co/SiC Catalyst. *Catalysts*, **2016**, 6, 98	4	13
73	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	3.9	75
72	Carbon nanofibers and nanospheres-supported bimetallic (Co and Fe) catalysts for the Fischer□ropsch synthesis. *Fuel Processing Technology*, **2015**, 138, 455-462	7.2	13

71	Thickness control of graphene deposited over polycrystalline nickel. *New Journal of Chemistry*, **2015**, 39, 4414-4423	3.6	13
70	CNF-reinforced polymer aerogels: Influence of the synthesis variables and economic evaluation. *Chemical Engineering Journal*, **2015**, 262, 691-701	14.7	17
69	Influence of CO2 co-feeding on Fischer□ropsch fuels production over carbon nanofibers supported cobalt catalyst. *Catalysis Communications*, **2014**, 44, 57-61	3.2	29
68	Optimization of the synthesis procedure of microparticles containing gold for the selective oxidation of glycerol. *Applied Catalysis A: General*, **2014**, 472, 11-20	5.1	14
67	□ilicon carbide as a catalyst support in the Fischer□ropsch synthesis: Influence of the modification of the support by a pore agent and acidic treatment. *Applied Catalysis A: General*, **2014** , 475, 82-89	5.1	36
66	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	3.9	14
65	Cobalt and iron supported on carbon nanofibers as catalysts for Fischer□ropsch synthesis. *Fuel Processing Technology*, **2014**, 128, 417-424	7.2	41
64	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, 105-11	9.3	5
63	Tailor-Made Aerogels Based on Carbon Nanofibers by Freeze-Drying. *Science of Advanced Materials*, **2014**, 6, 665-673	2.3	9
62	Synthesis of carbon nanofibers supported cobalt catalysts for Fischer□ropsch process. *Fuel*, **2013**, 111, 422-429	7.1	30
61	Catalytic oxidation of crude glycerol using catalysts based on Au supported on carbonaceous materials. *Applied Catalysis A: General*, **2013**, 450, 189-203	5.1	41
60	Pyrolysis and combustion kinetics of microcapsules containing carbon nanofibers by thermal analysis□hass spectrometry. *Journal of Analytical and Applied Pyrolysis*, **2012**, 94, 246-252	6	10
59	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, 173-81	9.3	4
58	Pilot Plant Scale Synthesis of CNS: Influence of the Operating Conditions. *Industrial & Engineering Chemistry Research*, **2012**, 51, 6745-6752	3.9	5
57	Hydrogen storage in different carbon materials: Influence of the porosity development by chemical activation. *Applied Surface Science*, **2012**, 258, 2498-2509	6.7	39
56	CO2 capture in different carbon materials. *Environmental Science & Technology*, **2012**, 46, 7407-14	10.3	110
55	FTS fuels production over different Co/SiC catalysts. *Catalysis Today*, **2012**, 187, 173-182	5.3	30
54	Smart microcapsules containing nonpolar chemical compounds and carbon nanofibers. *Chemical Engineering Journal*, **2012**, 181-182, 813-822	14.7	15

53	High pressure Water Gas Shift performance over a commercial non-sulfide CoMo catalyst using industrial coal-derived syngas. *Fuel*, **2012**, 97, 428-434	7.1	13
52	Improving hydrogen storage in modified carbon materials. *International Journal of Hydrogen Energy*, **2012**, 37, 4144-4160	6.7	39
51	Preparation and Characterization of CaO Nanoparticles/NaX Zeolite Catalysts for the Transesterification of Sunflower Oil. *Industrial & Engineering Chemistry Research*, **2011**, 50, 2665-2670	3.9	50
50	Carbon nanospheres: synthesis, physicochemical properties and applications. *Journal of Materials Chemistry*, **2011**, 21, 1664-1672		215
49	Nano-Scale Au Supported on Carbon Materials for the Low Temperature Water Gas Shift (WGS) Reaction. *Catalysts*, **2011**, 1, 155-174	4	6
48	Kinetic models discrimination for the high pressure WGS reaction over a commercial CoMo catalyst. *International Journal of Hydrogen Energy*, **2011**, 36, 9673-9684	6.7	41
47	Influence of the catalytic support on the industrial Fischer□ropsch synthetic diesel production. *Catalysis Today*, **2011**, 176, 298-302	5.3	46
46	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	14.7	60
45	Preparation of coated thermo-regulating textiles using Rubitherm-RT31 microcapsules. *Journal of Applied Polymer Science*, **2011**, 124, n/a-n/a	2.9	7
44	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	21.8	32
43	Synthesis and characterization of ruthenium supported on carbon nanofibers with different graphitic plane arrangements. *Chemical Engineering Journal*, **2011**, 168, 947-954	14.7	9
42	Thermal and morphological stability of polystyrene microcapsules containing phase-change materials. *Journal of Applied Polymer Science*, **2011**, 120, 291-297	2.9	45
41	Influence of alkali promoters on synthetic diesel production over Co catalyst. *Catalysis Today*, **2011**, 167, 96-106	5.3	42
40	Synthesis and characterization of Au supported on carbonaceous material-based catalysts for the selective oxidation of glycerol. *Chemical Engineering Journal*, **2011**, 172, 418-429	14.7	52
39	Influence of the chemical activation of carbon nanofibers on their use as catalyst support. *Applied Catalysis A: General*, **2011**, 393, 78-87	5.1	19
38	Fischer□ropsch diesel production over calcium-promoted Co/alumina catalyst: Effect of reaction conditions. *Fuel*, **2011**, 90, 1935-1945	7.1	63
37	Performance of a sulfur-resistant commercial WGS catalyst employing industrial coal-derived syngas feed. *International Journal of Hydrogen Energy*, **2011**, 36, 44-51	6.7	39
36	Adsorption of phenol and nitrophenols by carbon nanospheres: Effect of pH and ionic strength. *Separation and Purification Technology*, **2011**, 80, 217-224	8.3	74

35	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	4.4	23
34	Impact of nitrogen doping of carbon nanospheres on the nickel-catalyzed hydrogenation of butyronitrile. *Journal of Catalysis*, **2010**, 269, 242-251	7.3	53
33	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	5.1	75
32	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		11
31	Development of thermo-regulating textiles using paraffin wax microcapsules. *Thermochimica Acta*, **2010**, 498, 16-21	2.9	186
30	Carbon nanospheres as novel support in the nickel catalyzed gas phase hydrogenation of butyronitrile. *Applied Catalysis A: General*, **2010**, 373, 192-200	5.1	10
29	Microencapsulation of PCMs with a styrene-methyl methacrylate copolymer shell by suspension-like polymerisation. *Chemical Engineering Journal*, **2010**, 157, 216-222	14.7	153
28	Hydrogen storage capacity on different carbon materials. *Chemical Physics Letters*, **2010**, 485, 152-155	2.5	29
27	Influence of the nature of the metal hydroxide in the porosity development of carbon nanofibers. *Journal of Colloid and Interface Science*, **2009**, 336, 226-34	9.3	28
26	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, 712-22	9.3	34
25	Direct synthesis of carbon and nitrogen-carbon nanospheres from aromatic hydrocarbons. *Chemical Engineering Journal*, **2009**, 153, 211-216	14.7	37
24	Influence of the activation conditions on the porosity development of herringbone carbon nanofibers. *Chemical Engineering Journal*, **2009**, 155, 931-940	14.7	20
23	Photocatalysis with Ti-pillared clays for the oxofunctionalization of alkylaromatics by O2. *Applied Catalysis A: General*, **2009**, 352, 234-242	5.1	29
22	Gas phase hydrogenation of nitrobenzene over acid treated structured and amorphous carbon supported Ni catalysts. *Applied Catalysis A: General*, **2009**, 363, 188-198	5.1	70
21	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	3.9	37
20	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	2.8	12
19	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	14.7	12
18	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	5.3	24

17	Selective catalytic reduction of NO by propene in the presence of oxygen and water over catalysts prepared by the modified sol–gel method. *Catalysis Communications*, **2007**, 8, 736-740	3.2	3
16	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	5.1	39
15	Preparation of Cu-ion-exchanged Fe-PILCs for the SCR of NO by propene. *Applied Catalysis B: Environmental*, **2006**, 65, 175-184	21.8	14
14	Ti-pillared clays: Synthesis and general characterization. *Clays and Clay Minerals*, **2006**, 54, 737-747	2.1	28
13	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	5.1	21
12	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	5.1	28
11	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	3.9	14
10	Growth of Carbon Nanofibers from Ni/Y Zeolite Based Catalysts: Effects of Ni Introduction Method, Reaction Temperature, and Reaction Gas Composition. *Industrial & Engineering Chemistry Research*, **2005**, 44, 8225-8236	3.9	34
9	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	3.9	17
8	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		77
7	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		24
6	Preparation and characterization of Fe-PILCs. Influence of the synthesis parameters. *Clays and Clay Minerals*, **2005**, 53, 613-621	2.1	29
5	Influence of palladium incorporation technique on n-butane hydroisomerization over HZSM-5/bentonite catalysts. *Applied Catalysis A: General*, **2004**, 274, 79-85	5.1	10
4	Preparation and characterization of Ti-pillared clays using Ti alkoxides. influence of the synthesis parameters. *Clays and Clay Minerals*, **2003**, 51, 41-51	2.1	22
3	Cation exchanged and impregnated Ti-pillared clays for selective catalytic reduction of NOx by propylene. *Applied Catalysis B: Environmental*, **2003**, 43, 43-56	21.8	75
2	Characterization and Catalytic Properties of Titanium-Pillared Clays Prepared at Laboratory and Pilot Scales: A Comparative Study. *Industrial & Engineering Chemistry Research*, **2003**, 42, 2783-2790	3.9	11
1	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	5.3	51