Maria Jesus Lazaro

List of Publications by Year in Descending Order

249 papers	8,158 citations	49 h-index	69 g-index
254 ext. papers	8,873 ext. citations	6.9 avg, IF	6.14 L-index

#	Paper	IF	Citations
249	Influence of Nitrogen and Sulfur Doping of Carbon Xerogels on the Performance and Stability of Counter Electrodes in Dye Sensitized Solar Cells. *Catalysts*, **2022**, 12, 264	4	
248	Mesoporous CeFeNi nanocomposites encapsulated in carbon-nanofibers: Synthesis, characterization and catalytic behavior in oxygen evolution reaction. *Carbon*, **2022**, 196, 186-202	10.4	1
247	Recent progress on bimetallic NiCo and CoFe based electrocatalysts for alkaline oxygen evolution reaction: A review. *Journal of Energy Chemistry*, **2021**, 67, 101-101	12	15
246	Electrochemical Performance and Alkaline Stability of Cross-linked Quaternized Polyepichlorohydrin/PvDF Blends for Anion-Exchange Membrane Fuel Cells. *Journal of Physical Chemistry C*, **2021**, 125, 5494-5504	3.8	3
245	Effect of 1-octanethiol as an electrolyte additive on the performance of the iron-air battery electrodes. *Journal of Solid State Electrochemistry*, **2021**, 25, 225-230	2.6	2
244	Carbon-Based Composites as Electrocatalysts for Oxygen Evolution Reaction in Alkaline Media. *Materials*, **2021**, 14,	3.5	6
243	Biomass waste-derived nitrogen and iron co-doped nanoporous carbons as electrocatalysts for the oxygen reduction reaction. *Electrochimica Acta*, **2021**, 387, 138490	6.7	7
242	Carbon nanofiber-supported tantalum oxides as durable catalyst for the oxygen evolution reaction in alkaline media. *Renewable Energy*, **2021**, 178, 307-317	8.1	3
241	Capacitance Enhancement of Hydrothermally Reduced Graphene Oxide Nanofibers. *Nanomaterials*, **2020**, 10,	5.4	6
240	Insights on the Electrochemical Oxidation of Ordered Mesoporous Carbons. *Journal of the Electrochemical Society*, **2020**, 167, 024511	3.9	8
239	Non platinum-based cathode catalyst systems for direct methanol fuel cells **2020**, 289-316		2
238	CoTiO3/NrGO nanocomposites for oxygen evolution and oxygen reduction reactions: Synthesis and electrocatalytic performance. *Electrochimica Acta*, **2020**, 331, 135396	6.7	17
237	Graphene oxide nanofibers: A nanocarbon material with tuneable electrochemical properties. *Applied Surface Science*, **2020**, 509, 144774	6.7	13
236	Non-precious Melamine/Chitosan Composites for the Oxygen Reduction Reaction: Effect of the Transition Metal. *Frontiers in Materials*, **2020**, 7,	4	2
235	Optimization of the Catalytic Layer for Alkaline Fuel Cells Based on Fumatech Membranes and Ionomer. *Catalysts*, **2020**, 10, 1353	4	2
234	Ordered Mesoporous Carbon as a Support of Pd Catalysts for CO2 Electrochemical Reduction. *Catalysts*, **2020**, 10, 912	4	3
233	Synthesis and applications of carbon nanofibers: a review. *Reviews in Chemical Engineering*, **2020**, 36, 493-511	5	37

232	Titanium carbonitride–graphene composites assembled with organic linkers as electrocatalytic supports for methanol oxidation reaction. *Catalysis Today*, **2020**, 356, 101-109	5.3	3
231	Bi-functional carbon-based catalysts for unitized regenerative fuel cells. *Journal of Catalysis*, **2020**, 387, 138-144	7.3	7
230	N-doped graphene catalysts with high nitrogen concentration for the oxygen reduction reaction. *Journal of Power Sources*, **2019**, 438, 227036	8.9	42
229	Electrochemical Behavior of Pt–Ru Catalysts Supported on Graphitized Ordered Mesoporous Carbons toward CO and Methanol Oxidation. *Surfaces*, **2019**, 2, 1-15	2.9	7
228	Ni-Based Composites from Chitosan Biopolymer a One-Step Synthesis for Oxygen Evolution Reaction. *Catalysts*, **2019**, 9, 471	4	7
227	Tantalum-based electrocatalysts prepared by a microemulsion method for the oxygen reduction and evolution reactions. *Electrochimica Acta*, **2019**, 317, 261-271	6.7	9
226	Performance and stability of counter electrodes based on reduced few-layer graphene oxide sheets and reduced graphene oxide quantum dots for dye-sensitized solar cells. *Electrochimica Acta* , **2019**, 306, 396-406	6.7	23
225	Electrochemical oxidation of ordered mesoporous carbons and the influence of graphitization. *Electrochimica Acta*, **2019**, 303, 167-175	6.7	17
224	Electrocatalytic Performance of Palladium-Based Electrocatalysts Supported on Carbon Nanotubes for Formic Acid Oxidation. *ECS Transactions*, **2019**, 92, 317-324	1	1
223	Carbon supported PdM (M = Fe, Co) electrocatalysts for formic acid oxidation. Influence of the Fe and Co precursors. *International Journal of Hydrogen Energy*, **2019**, 44, 1640-1649	6.7	18
222	Carbon xerogels electrochemical oxidation and correlation with their physico-chemical properties. *Carbon*, **2019**, 144, 382-394	10.4	15
221	Crystal Growth, Structural Phase Transitions, and Optical Gap Evolution of CH3NH3Pb(Br1−xClx)3 Perovskites. *Crystal Growth and Design*, **2019**, 19, 918-924	3.5	12
220	Bifunctional N-doped graphene Ti and Co nanocomposites for the oxygen reduction and evolution reactions. *Renewable Energy*, **2018**, 125, 182-192	8.1	36
219	Pt-Rich/Sn-Rich/Pt Nanocubes As Highly Active and Stable Electrocatalysts for the Ethanol Oxidation Reaction. *Journal of the American Chemical Society*, **2018**, 140, 3791-3797	16.4	124
218	DEMS strategy for the determination of the difference in surface acidity of carbon materials. *Electrochemistry Communications*, **2018**, 90, 87-90	5.1	12
217	Electrochemical behavior of the carbon black Vulcan XC-72R: Influence of the surface chemistry. *International Journal of Hydrogen Energy*, **2018**, 43, 7911-7922	6.7	49
216	Nitrogen Doped Ordered Mesoporous Carbon as Support of PtRu Nanoparticles for Methanol Electro-Oxidation. *Energies*, **2018**, 11, 831	3.1	12
215	Methanol-Tolerant MNC Catalysts for Oxygen Reduction Reactions in Acidic Media and Their Application in Direct Methanol Fuel Cells. *Catalysts*, **2018**, 8, 650	4	25

214	Effect of oxygen and structural properties on the electrical conductivity of powders of nanostructured carbon materials. *Powder Technology*, **2018**, 340, 380-388	5.2	24
213	Influence of the Alumina Precursor on the Activity of Structured Fe□/Al2O3 Catalysts Towards the Simultaneous Removal of Soot and NOx. *Topics in Catalysis*, **2017**, 60, 355-360	2.3	
212	Strain Effects on the Oxidation of CO and HCOOH on Au□Pd Core□Shell Nanoparticles. *ACS Catalysis*, **2017**, 7, 1673-1680	13.1	39
211	Noble metal-free catalysts supported on carbon for CO 2 electrochemical reduction. *Journal of CO2 Utilization*, **2017**, 18, 41-52	7.6	16
210	Electrocatalysts for low temperature fuel cells. *Catalysis Today*, **2017**, 285, 3-12	5.3	41
209	Influence of the nature of the carbon support on the activity of Pt/C catalysts for ethanol and carbon monoxide oxidation. *Journal of Catalysis*, **2017**, 348, 22-28	7.3	34
208	Stability and catalytic properties of nanostructured carbons in electrochemical environments. *Journal of Catalysis*, **2017**, 355, 156-166	7.3	12
207	Effect of molybdophosphoric acid in iron and cobalt graphene/chitosan composites for oxygen reduction reaction. *International Journal of Hydrogen Energy*, **2017**, 42, 28093-28101	6.7	11
206	On the design of Pt-Sn efficient catalyst for carbon monoxide and ethanol oxidation in acid and alkaline media. *Applied Catalysis B: Environmental*, **2017**, 200, 246-254	21.8	93
205	N-Doped Carbon Xerogels as Pt Support for the Electro-Reduction of Oxygen. *Materials*, **2017**, 10,	3.5	19
204	Effect of the Dendrimer Generation Used in the Synthesis of Pt-Ru Nanoparticles Supported on Carbon Nanofibers on the Catalytic Activity towards Methanol Oxidation. *Energies*, **2017**, 10, 159	3.1	11
203	Analysis of the strategies for bridging the gap towards the Hydrogen Economy. *International Journal of Hydrogen Energy*, **2016**, 41, 19500-19508	6.7	108
202	Palladium□ickel materials as cathode electrocatalysts for alkaline fuel cells. *International Journal of Hydrogen Energy*, **2016**, 41, 22538-22546	6.7	17
201	Electrochemical reactors for CO 2 reduction: From acid media to gas phase. *International Journal of Hydrogen Energy*, **2016**, 41, 19756-19765	6.7	25
200	Palladium-Based Catalysts as Electrodes for Direct Methanol Fuel Cells: A Last Ten Years Review. *Catalysts*, **2016**, 6, 130	4	61
199	Spectroelectrochemical Study of Carbon Monoxide and Ethanol Oxidation on Pt/C, PtSn(3:1)/C and PtSn(1:1)/C Catalysts. *Molecules*, **2016**, 21,	4.8	20
198	Oxidation of CO and Methanol on Pd-Ni Catalysts Supported on Different Chemically-Treated Carbon Nanofibers. *Nanomaterials*, **2016**, 6,	5.4	12
197	Iron□itrogen-functionalized carbon as efficient oxygen reduction reaction electrocatalyst in microbial fuel cells. *International Journal of Hydrogen Energy*, **2016**, 41, 19637-19644	6.7	45

196	Sulfurized carbon xerogels as Pt support with enhanced activity for fuel cell applications. *Applied Catalysis B: Environmental*, **2016**, 192, 260-267	21.8	35
195	Methanol tolerant Pt 2 CrCo catalysts supported on ordered mesoporous carbon for the cathode of DMFC. *International Journal of Hydrogen Energy*, **2016**, 41, 19645-19655	6.7	12
194	Influence of thermal treatments on the stability of Pd nanoparticles supported on graphitised ordered mesoporous carbons. *International Journal of Hydrogen Energy*, **2016**, 41, 19570-19578	6.7	12
193	Iron-Based Electrocatalysts Supported on Nanostructured Carbon to Enhance Oxygen Reduction in Microbial Fuel Cells. *ECS Transactions*, **2016**, 72, 9-15	1	7
192	Ethanol Oxidation on Sn-modified Pt Single-Crystal Electrodes: New Mechanistic Insights from On-line Electrochemical Mass Spectrometry. *ChemElectroChem*, **2016**, 3, 2196-2201	4.3	19
191	Palladium□ickel catalysts supported on different chemically-treated carbon blacks for methanol oxidation in alkaline media. *International Journal of Hydrogen Energy*, **2016**, 41, 19556-19569	6.7	30
190	Tailoring carbon xerogels' properties to enhance catalytic activity of Pt catalysts towards methanol oxidation. *International Journal of Hydrogen Energy*, **2015**, 40, 14736-14745	6.7	11
189	Carbon-based catalysts: Synthesis and applications. *Comptes Rendus Chimie*, **2015**, 18, 1229-1241	2.7	29
188	The role of Sn, Ru and Ir on the ethanol electrooxidation on Pt3M/TiCN electrocatalysts. *International Journal of Hydrogen Energy*, **2015**, 40, 14519-14528	6.7	19
187	Carbon monoxide and methanol oxidations on carbon nanofibers supported Pt□u electrodes at different temperatures. *Electrochimica Acta*, **2015**, 186, 359-368	6.7	26
186	Influence of gas hourly space velocity on the activity of monolithic catalysts for the simultaneous removal of soot and NOx. *Comptes Rendus Chimie*, **2015**, 18, 1007-1012	2.7	11
185	Electrochemical oxidation of CO and methanol on Pt□u catalysts supported on carbon nanofibers: the influence of synthesis method. *Applied Catalysis B: Environmental*, **2015**, 165, 676-686	21.8	70
184	Pd catalysts supported onto nanostructured carbon materials for CO2 valorization by electrochemical reduction. *Applied Catalysis B: Environmental*, **2015**, 163, 83-95	21.8	68
183	Carbon Nanofibers as Advanced Pd Catalyst Supports for the Air Electrode of Alkaline Metal-Air Batteries. *ChemPlusChem*, **2015**, 80, 1384-1388	2.8	17
182	Carbon monoxide and ethanol oxidation on PtSn supported catalysts: Effect of the nature of the carbon support and Pt:Sn composition. *Applied Catalysis B: Environmental*, **2015**, 168-169, 33-41	21.8	58
181	Influence of the Synthesis Method for Pt Catalysts Supported on Highly Mesoporous Carbon Xerogel and Vulcan Carbon Black on the Electro-Oxidation of Methanol. *Catalysts*, **2015**, 5, 392-405	4	23
180	Hydrogen and multiwall carbon nanotubes production by catalytic decomposition of methane: Thermogravimetric analysis and scaling-up of Fe□Mo catalysts. *International Journal of Hydrogen Energy*, **2014**, 39, 3698-3709	6.7	54
179	Carbon supports for the catalytic dehydrogenation of liquid organic hydrides as hydrogen storage and delivery system. *International Journal of Hydrogen Energy*, **2014**, 39, 4109-4115	6.7	34

178	Towards new generation fuel cell electrocatalysts based on xerogel–nanofiber carbon composites. *Journal of Materials Chemistry A*, **2014**, 2, 13713	13	30
177	Oxidized carbon nanofibers supporting PtRu nanoparticles for direct methanol fuel cells. *International Journal of Hydrogen Energy*, **2014**, 39, 5414-5423	6.7	28
176	Towards an optimal synthesis route for the preparation of highly mesoporous carbon xerogel-supported Pt catalysts for the oxygen reduction reaction. *Applied Catalysis B: Environmental*, **2014**, 147, 947-957	21.8	44
175	Fuel cell performance of Pt electrocatalysts supported on carbon nanocoils. *International Journal of Hydrogen Energy*, **2014**, 39, 5371-5377	6.7	22
174	On the influence of the alumina precursor in Fe-K/Al2O3 structured catalysts for the simultaneous removal of soot and NOx: From surface properties to reaction mechanism. *Comptes Rendus Chimie*, **2014**, 17, 681-686	2.7	5
173	Influence of the surface potassium species in Fe-K/Al2O3 catalysts on the soot oxidation activity in the presence of NOx. *Applied Catalysis B: Environmental*, **2014**, 152-153, 88-98	21.8	69
172	Carbon nanofiber-based counter electrodes for low cost dye-sensitized solar cells. *Journal of Power Sources*, **2014**, 250, 242-249	8.9	61
171	The effect of carbon nanofiber properties as support for PtRu nanoparticles on the electrooxidation of alcohols. *Applied Catalysis B: Environmental*, **2013**, 132-133, 13-21	21.8	45
170	CH4 and CO2 partial pressures influence and deactivation study on the Catalytic Decomposition of Biogas over a Ni catalyst. *Fuel*, **2013**, 111, 778-783	7.1	11
169	Influence of the Alkali Promoter on the Activity and Stability of Transition Metal (Cu, Co, Fe) Based Structured Catalysts for the Simultaneous Removal of Soot and NOx. *Topics in Catalysis*, **2013**, 56, 493-498	2.3	18
168	Me (Cu, Co, V)-K/Al2O3 supported catalysts for the simultaneous removal of soot and nitrogen oxides from diesel exhausts. *Chemical Engineering Science*, **2013**, 87, 75-90	4.4	20
167	Platinum Ruthenium Catalysts Supported on Carbon Xerogel for Methanol Electro-Oxidation: Influence of the Catalyst Synthesis Method. *ChemCatChem*, **2013**, 5, 3770-3780	5.2	18
166	Methanol Oxidation at Diamond-Supported Pt Nanoparticles: Effect of the Diamond Surface Termination. *Journal of Physical Chemistry C*, **2013**, 117, 21735-21742	3.8	19
165	On the importance of the structure in the electrical conductivity of fishbone carbon nanofibers. *Journal of Materials Science*, **2013**, 48, 1423-1435	4.3	23
164	Carbon nanocoils as catalysts support for methanol electrooxidation: A Differential Electrochemical Mass Spectrometry (DEMS) study. *Journal of Power Sources*, **2013**, 239, 72-80	8.9	9
163	Optimizing the synthesis of carbon nanofiber based electrocatalysts for fuel cells. *Applied Catalysis B: Environmental*, **2013**, 132-133, 22-27	21.8	41
162	Comparative study of Pt catalysts supported on different high conductive carbon materials for methanol and ethanol oxidation. *Electrochimica Acta*, **2013**, 102, 19-27	6.7	38
161	Synthesis and application of gold-carbon hybrids as catalysts for the hydroamination of alkynes. *Applied Catalysis A: General*, **2013**, 456, 88-95	5.1	28

160	Investigation of several graphite-based electrodes for vanadium redox flow cell. *Journal of Power Sources*, **2013**, 227, 15-23	8.9	102
159	Oxygen-Functionalized Highly Mesoporous Carbon Xerogel Based Catalysts for Direct Methanol Fuel Cell Anodes. *Journal of Physical Chemistry C*, **2013**, 117, 13045-13058	3.8	39
158	Preparation of polymer composites using nanostructured carbon produced at large scale by catalytic decomposition of methane. *Materials Chemistry and Physics*, **2013**, 137, 859-865	4.4	5
157	PtRu Nanoparticles Deposited by the Sulfite Complex Method on Highly Porous Carbon Xerogels: Effect of the Thermal Treatment. *Catalysts*, **2013**, 3, 744-756	4	8
156	Nanostructured Carbon Materials as Supports in the Preparation of Direct Methanol Fuel Cell Electrocatalysts. *Catalysts*, **2013**, 3, 671-682	4	13
155	A case of late-stage lymphogranuloma venereum in a woman in Europe. *Sexually Transmitted Diseases*, **2013**, 40, 792-3	2.4	4
154	Cesium as Alkali Promoter in Me-Cs (Me = Cu, Co, Fe)/ Al₂O₃ Structured Catalysts for the Simultaneous Removal of Soot and NO_x. *Modern Research in Catalysis*, **2013**, 02, 57-62	0.6	2
153	Metallic and carbonaceous-based catalysts performance in the solar catalytic decomposition of methane for hydrogen and carbon production. *International Journal of Hydrogen Energy*, **2012**, 37, 9645-9655	6.7	25
152	Graphitized carbon nanofibers for use as anodes in lithium-ion batteries: Importance of textural and structural properties. *Journal of Power Sources*, **2012**, 198, 303-307	8.9	24
151	Catalytic filters for the simultaneous removal of soot and NOx: Influence of the alumina precursor on monolith washcoating and catalytic activity. *Catalysis Today*, **2012**, 191, 96-105	5.3	31
150	Highly dispersed encapsulated AuPd nanoparticles on ordered mesoporous carbons for the direct synthesis of H2O2 from molecular oxygen and hydrogen. *Chemical Communications*, **2012**, 48, 5316-8	5.8	29
149	Electrocatalytic Properties of Strained Pd Nanoshells at Au Nanostructures: CO and HCOOH Oxidation. *Journal of Physical Chemistry C*, **2012**, 116, 692-699	3.8	30
148	Effect of Carbon Supports on Electrocatalytic Reactivity of AuPd Core-Shell Nanoparticles. *Journal of Physical Chemistry C*, **2012**, 116, 6275-6282	3.8	32
147	Hydrogen production by catalytic decomposition of methane using a Fe-based catalyst in a fluidized bed reactor. *Journal of Natural Gas Chemistry*, **2012**, 21, 367-373		38
146	Response to the comments on "Metallic and carbonaceous-based catalysts performance in the solar catalytic decomposition of methane for hydrogen and carbon production" by A. Rollinson. *International Journal of Hydrogen Energy*, **2012**, 37, 14716-14717	6.7	2
145	Influence of the inherent metal species on the graphitization of methane-based carbon nanofibers. *Carbon*, **2012**, 50, 5387-5394	10.4	18
144	Carbon Nanocoils as Unusual Electrode Materials for Supercapacitors. *Journal of the Electrochemical Society*, **2012**, 159, A464-A469	3.9	15
143	The influence of carbon nanofiber support properties on the oxygen reduction behavior in proton conducting electrolyte-based direct methanol fuel cells. *International Journal of Hydrogen Energy*, **2012**, 37, 6253-6260	6.7	28

142	Electrochemical performance of low temperature PEMFC with surface tailored carbon nanofibers as catalyst support. *International Journal of Hydrogen Energy*, **2012**, 37, 393-404	6.7	43
141	Catalytic decomposition of biogas to produce H2-rich fuel gas and carbon nanofibers. Parametric study and characterization. *International Journal of Hydrogen Energy*, **2012**, 37, 7067-7076	6.7	24
140	Influence of supports oxygen functionalization on the activity of Pt/carbon xerogels catalysts for methanol electro-oxidation. *International Journal of Hydrogen Energy*, **2012**, 37, 7180-7191	6.7	36
139	Gas diffusion electrodes for methanol electrooxidation studied by a new DEMS configuration: Influence of the diffusion layer. *International Journal of Hydrogen Energy*, **2012**, 37, 7141-7151	6.7	26
138	Electrochemical performance of Pd and AuPd core shell nanoparticles on surface tailored carbon black as catalyst support. *International Journal of Hydrogen Energy*, **2012**, 37, 7152-7160	6.7	39
137	PtRu catalysts supported on carbon xerogels for PEM fuel cells. *International Journal of Hydrogen Energy*, **2012**, 37, 7200-7211	6.7	42
136	Enhanced oxygen reduction activity and durability of Pt catalysts supported on carbon nanofibers. *Applied Catalysis B: Environmental*, **2012**, 115-116, 269-275	21.8	105
135	Influence of Synthesis pH on Textural Properties of Carbon Xerogels as Supports for Pt/CXs Catalysts for Direct Methanol Fuel Cells. *International Journal of Electrochemistry*, **2012**, 2012, 1-9	2.4	1
134	Tailoring Synthesis Conditions of Carbon Xerogels towards Their Utilization as Pt-Catalyst Supports for Oxygen Reduction Reaction (ORR). *Catalysts*, **2012**, 2, 466-489	4	27
133	Influence of the support on the physicochemical properties of Pt electrocatalysts: Comparison of catalysts supported on different carbon materials. *Materials Chemistry and Physics*, **2011**, 127, 335-341	4.4	49
132	Synthesis and performance of platinum supported on ordered mesoporous carbons as catalyst for PEM fuel cells: Effect of the surface chemistry of the support. *International Journal of Hydrogen Energy*, **2011**, 36, 9805-9814	6.7	61
131	Soot oxidation in the presence of NO over alumina-supported bimetallic catalysts KMe (Me=Cu, Co, V). *Catalysis Today*, **2011**, 176, 361-364	5.3	11
130	Catalytic filters for the simultaneous removal of soot and NOx: Effect of CO2 and steam on the exhaust gas of diesel engines. *Catalysis Today*, **2011**, 176, 134-138	5.3	7
129	Pt and PtRu electrocatalysts supported on carbon xerogels for direct methanol fuel cells. *Journal of Power Sources*, **2011**, 196, 4226-4235	8.9	55
128	Insulating diamond particles as substrate for Pd electrocatalysts. *Chemical Communications*, **2011**, 47, 7656-8	5.8	20
127	Catalytic decomposition of methane for the simultaneous co-production of CO2-free hydrogen and carbon nanofibre based polymers. *Fuel*, **2011**, 90, 430-432	7.1	17
126	Catalytic decomposition of methane and methane/CO2 mixtures to produce synthesis gas and nanostructured carbonaceous material. *Fuel*, **2011**, 90, 2245-2253	7.1	28
125	Ni- and Fe-based catalysts for hydrogen and carbon nanofilament production by catalytic decomposition of methane in a rotary bed reactor. *Fuel Processing Technology*, **2011**, 92, 1480-1488	7.2	58

124	High temperature iron-based catalysts for hydrogen and nanostructured carbon production by methane decomposition. *International Journal of Hydrogen Energy*, **2011**, 36, 7832-7843	6.7	89
123	Modification of the properties of carbon nanocoils by different treatments in liquid phase. *Microporous and Mesoporous Materials*, **2011**, 142, 55-61	5.3	14
122	Formation of hydrogen and filamentous carbon over a NiCuAl2O3 catalyst through ethane decomposition. *Applied Catalysis A: General*, **2011**, 394, 220-227	5.1	8
121	Influence of the synthesis method on the properties of Pt catalysts supported on carbon nanocoils for ethanol oxidation. *Journal of Power Sources*, **2011**, 196, 4236-4241	8.9	23
120	Carbon-Supported Fe Catalysts forCO2Electroreduction to High-Added Value Products: A DEMS Study: Effect of the Functionalization of the Support. *International Journal of Electrochemistry*, **2011**, 2011, 1-13	2.4	16
119	Use of Dendrimers during the Synthesis of Pt-Ru Electrocatalysts for PEM Fuel Cells: Effects on the Physical and Electrochemical Properties. *International Journal of Electrochemistry*, **2011**, 2011, 1-7	2.4	3
118	Study of the Synthesis Conditions of Carbon Nanocoils for Energetic Applications *Energy & Fuels*, **2010**, 24, 3361-3365	4.1	23
117	H2CH4 Mixtures Produced by Carbon-Catalyzed Methane Decomposition as a Fuel for Internal Combustion Engines *Energy & Fuels*, **2010**, 24, 3340-3345	4.1	15
116	Vanadium loaded carbon-based monoliths for the on-board no reduction: Influence of temperature and period of the oxidation treatment. *Chemical Engineering Journal*, **2010**, 160, 623-633	14.7	11
115	Technical electrodes catalyzed with PtRu on mesoporous ordered carbons for liquid direct methanol fuel cells. *Journal of Solid State Electrochemistry*, **2010**, 14, 1027-1034	2.6	29
114	Low-cost carbon-based briquettes for the reduction of NO emissions: Optimal preparation procedure and influence in operating conditions. *Journal of Analytical and Applied Pyrolysis*, **2010**, 88, 80-90	6	9
113	PtRu electrocatalysts supported on ordered mesoporous carbon for direct methanol fuel cell. *Journal of Power Sources*, **2010**, 195, 4022-4029	8.9	122
112	The graphitization of carbon nanofibers produced by catalytic decomposition of methane: Synergetic effect of the inherent Ni and Si. *Fuel*, **2010**, 89, 2160-2162	7.1	20
111	Parametric study of the decomposition of methane using a NiCu/Al2O3 catalyst in a fluidized bed reactor. *International Journal of Hydrogen Energy*, **2010**, 35, 9801-9809	6.7	60
110	Influence of carbon nanofiber properties as electrocatalyst support on the electrochemical performance for PEM fuel cells. *International Journal of Hydrogen Energy*, **2010**, 35, 9934-9942	6.7	92
109	Characterization of nanofibrous carbon produced at pilot-scale in a fluidized bed reactor by methane decomposition. *Chemical Engineering Journal*, **2010**, 156, 170-176	14.7	15
108	The effect of the functionalization of carbon nanofibers on their electronic conductivity. *Carbon*, **2010**, 48, 4421-4431	10.4	97
107	Study of the surface chemistry of modified carbon nanofibers by oxidation treatments in liquid phase. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 4164-9	1.3	25

106	Cherry stones as precursor of activated carbons for supercapacitors. *Materials Chemistry and Physics*, **2009**, 114, 323-327	4.4	157
105	Modification of the surface chemistry of mesoporous carbons obtained through colloidal silica templates. *Materials Chemistry and Physics*, **2009**, 118, 249-253	4.4	7
104	Effect of the support properties on the preparation and performance of platinum catalysts supported on carbon nanofibers. *Journal of Power Sources*, **2009**, 192, 144-150	8.9	61
103	Pt supported on carbon nanofibers as electrocatalyst for low temperature polymer electrolyte membrane fuel cells. *Electrochemistry Communications*, **2009**, 11, 1081-1084	5.1	36
102	A novel rotary reactor configuration for simultaneous production of hydrogen and carbon nanofibers. *International Journal of Hydrogen Energy*, **2009**, 34, 8016-8022	6.7	28
101	CO tolerant PtRuMoOx nanoparticles supported on carbon nanofibers for direct methanol fuel cells. *Journal of Power Sources*, **2009**, 186, 299-304	8.9	50
100	Carbon nanofibers as electrocatalyst support for fuel cells: Effect of hydrogen on their properties in CH4 decomposition. *Journal of Power Sources*, **2009**, 192, 51-56	8.9	33
99	Effects of reaction conditions on hydrogen production and carbon nanofiber properties generated by methane decomposition in a fixed bed reactor using a NiCuAl catalyst. *Journal of Power Sources*, **2009**, 192, 35-42	8.9	52
98	Influence on hydrogen production of the minor components of natural gas during its decomposition using carbonaceous catalysts. *Journal of Power Sources*, **2009**, 192, 100-106	8.9	28
97	A comparative study of V2O5/AC and V2O5/Al2O3 catalysts for the selective catalytic reduction of NO by NH3. *Chemical Engineering Journal*, **2009**, 149, 173-182	14.7	55
96	Vanadium loaded carbon-based monoliths for the on-board No reduction: Influence of vanadia and tungsten loadings. *Chemical Engineering Journal*, **2009**, 155, 68-75	14.7	10
95	Influence of nickel crystal domain size on the behaviour of Ni and NiCu catalysts for the methane decomposition reaction. *Applied Catalysis A: General*, **2009**, 363, 199-207	5.1	47
94	The graphitization of carbon nanofibers produced by the catalytic decomposition of natural gas. *Carbon*, **2009**, 47, 2563-2570	10.4	35
93	Carbon nanofiber growth optimization for their use as electrocatalyst support in proton exchange membrane (PEM) fuel cells. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 4353-9	1.3	14
92	Characterization of carbon nanofibers grown over Ni and Ni-cu catalysts. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 4170-9	1.3	2
91	Carbon monoxide and methanol oxidation at platinum catalysts supported on ordered mesoporous carbon: the influence of functionalization of the support. *Physical Chemistry Chemical Physics*, **2008**, 10, 6796-806	3.6	52
90	Kinetic study of the thermal decomposition of methane using carbonaceous catalysts. *Chemical Engineering Journal*, **2008**, 138, 301-306	14.7	68
89	Carbonaceous materials as catalysts for decomposition of methane. *Chemical Engineering Journal*, **2008**, 140, 432-438	14.7	73

88	Hydrogen storage by decalin dehydrogenation/naphthalene hydrogenation pair over platinum catalysts supported on activated carbon. *International Journal of Hydrogen Energy*, **2008**, 33, 1329-1334	6.7	62
87	Activity of NiCuAl catalyst in methane decomposition studied using a thermobalance and the structural changes in the Ni and the deposited carbon. *International Journal of Hydrogen Energy*, **2008**, 33, 2515-2524	6.7	48
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