Maria Jesus Lazaro

List of Publications by Year
in descending order

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251 papers	9,734 citations	30047 54 h-index	69214 77 g-index
255 all docs	255 docs citations	255 times ranked	8122 citing authors

#	Article	IF	Citations
1	Recent progress on bimetallic NiCo and CoFe based electrocatalysts for alkaline oxygen evolution reaction: A review. Journal of Energy Chemistry, 2022, 67, 101-137.	7.1	109
2	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.	1.6	8
3	Mesoporous Ceâ€"Feâ€"Ni nanocomposites encapsulated in carbon-nanofibers: Synthesis, characterization and catalytic behavior in oxygen evolution reaction. Carbon, 2022, 196, 186-202.	5.4	7
4	Transformation of CoFe2O4 spinel structure into active and robust CoFe alloy/N-doped carbon electrocatalyst for oxygen evolution reaction. Journal of Colloid and Interface Science, 2022, 625, 70-82.	5.0	14
5	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.	1.2	5
6	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.	1.5	14
7	Carbon-Based Composites as Electrocatalysts for Oxygen Evolution Reaction in Alkaline Media. Materials, 2021, 14, 4984.	1.3	23
8	Biomass waste-derived nitrogen and iron co-doped nanoporous carbons as electrocatalysts for the oxygen reduction reaction. Electrochimica Acta, 2021, 387, 138490.	2.6	23
9	Carbon nanofiber-supported tantalum oxides as durable catalyst for the oxygen evolution reaction in alkaline media. Renewable Energy, 2021, 178, 307-317.	4.3	13
10	Titanium Dioxide/N-Doped Graphene Composites as Non-Noble Bifunctional Oxygen Electrocatalysts. Industrial & Engineering Chemistry Research, 2021, 60, 18817-18830.	1.8	8
11	Synthesis and applications of carbon nanofibers: a review. Reviews in Chemical Engineering, 2020, 36, 493-511.	2.3	85
12	Titanium carbonitrideâ€"graphene composites assembled with organic linkers as electrocatalytic supports for methanol oxidation reaction. Catalysis Today, 2020, 356, 101-109.	2.2	4
13	CoTiO3/NrGO nanocomposites for oxygen evolution and oxygen reduction reactions: Synthesis and electrocatalytic performance. Electrochimica Acta, 2020, 331, 135396.	2.6	30
14	Graphene oxide nanofibers: A nanocarbon material with tuneable electrochemical properties. Applied Surface Science, 2020, 509, 144774.	3.1	14
15	Non-precious Melamine/Chitosan Composites for the Oxygen Reduction Reaction: Effect of the Transition Metal. Frontiers in Materials, 2020, 7, .	1.2	4
16	Optimization of the Catalytic Layer for Alkaline Fuel Cells Based on Fumatech Membranes and Ionomer. Catalysts, 2020, 10, 1353.	1.6	14
17	Ordered Mesoporous Carbon as a Support of Pd Catalysts for CO2 Electrochemical Reduction. Catalysts, 2020, 10, 912.	1.6	4
18	Capacitance Enhancement of Hydrothermally Reduced Graphene Oxide Nanofibers. Nanomaterials, 2020, 10, 1056.	1.9	13

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19	Insights on the Electrochemical Oxidation of Ordered Mesoporous Carbons. Journal of the Electrochemical Society, 2020, 167, 024511.	1.3	8
20	Non platinum-based cathode catalyst systems for direct methanol fuel cells. , 2020, , 289-316.		2
21	Bi-functional carbon-based catalysts for unitized regenerative fuel cells. Journal of Catalysis, 2020, 387, 138-144.	3.1	14
22	N-doped graphene catalysts with high nitrogen concentration for the oxygen reduction reaction. Journal of Power Sources, 2019, 438, 227036.	4.0	77
23	Electrochemical Behavior of Ptâ€“Ru Catalysts Supported on Graphitized Ordered Mesoporous Carbons toward CO and Methanol Oxidation. Surfaces, 2019, 2, 1-15.	1.0	7
24	Ni-Based Composites from Chitosan Biopolymer a One-Step Synthesis for Oxygen Evolution Reaction. Catalysts, 2019, 9, 471.	1.6	10
25	Tantalum-based electrocatalysts prepared by a microemulsion method for the oxygen reduction and evolution reactions. Electrochimica Acta, 2019, 317, 261-271.	2.6	18
26	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.	2.6	27
27	Electrochemical oxidation of ordered mesoporous carbons and the influence of graphitization. Electrochimica Acta, 2019, 303, 167-175.	2.6	26
28	Electrocatalytic Performance of Palladium-Based Electrocatalysts Supported on Carbon Nanotubes for Formic Acid Oxidation. ECS Transactions, 2019, 92, 317-324.	0.3	1
29	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.	3.8	33
30	Carbon xerogels electrochemical oxidation and correlation with their physico-chemical properties. Carbon, 2019, 144, 382-394.	5.4	21
31	Crystal Growth, Structural Phase Transitions, and Optical Gap Evolution of CH₃NH₃Pb(Br_{1â€“x}Cl_x)₃ Perovskites. Crystal Growth and Design, 2019, 19, 918-924.	1.4	22
32	Bifunctional N-doped graphene Ti and Co nanocomposites for the oxygen reduction and evolution reactions. Renewable Energy, 2018, 125, 182-192.	4.3	51
33	Pt-Rich_{core}/Sn-Rich_{subsurface}/Pt_{skin} Nanocubes As Highly Active and Stable Electrocatalysts for the Ethanol Oxidation Reaction. Journal of the American Chemical Society, 2018, 140, 3791-3797.	6.6	166
34	DEMS strategy for the determination of the difference in surface acidity of carbon materials. Electrochemistry Communications, 2018, 90, 87-90.	2.3	14
35	Electrochemical behavior of the carbon black Vulcan XC-72R: Influence of the surface chemistry. International Journal of Hydrogen Energy, 2018, 43, 7911-7922.	3.8	79
36	Methanol-Tolerant Mâ€“Nâ€“C Catalysts for Oxygen Reduction Reactions in Acidic Media and Their Application in Direct Methanol Fuel Cells. Catalysts, 2018, 8, 650.	1.6	36

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37	Effect of oxygen and structural properties on the electrical conductivity of powders of nanostructured carbon materials. Powder Technology, 2018, 340, 380-388.	2.1	30
38	Nitrogen Doped Ordered Mesoporous Carbon as Support of PtRu Nanoparticles for Methanol Electro-Oxidation. Energies, 2018, 11, 831.	1.6	17
39	Influence of the Alumina Precursor on the Activity of Structured Feâ€"K/Al2O3 Catalysts Towards the Simultaneous Removal of Soot and NOx. Topics in Catalysis, 2017, 60, 355-360.	1.3	0
40	Strain Effects on the Oxidation of CO and HCOOH on Auâ€"Pd Coreâ€"Shell Nanoparticles. ACS Catalysis, 2017, 7, 1673-1680.	5.5	51
41	Noble metal-free catalysts supported on carbon for CO 2 electrochemical reduction. Journal of CO2 Utilization, 2017, 18, 41-52.	3.3	21
42	Electrocatalysts for low temperature fuel cells. Catalysis Today, 2017, 285, 3-12.	2.2	50
43	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.	3.1	45
44	Stability and catalytic properties of nanostructured carbons in electrochemical environments. Journal of Catalysis, 2017, 355, 156-166.	3.1	13
45	Effect of molybdophosphoric acid in iron and cobalt graphene/chitosan composites for oxygen reduction reaction. International Journal of Hydrogen Energy, 2017, 42, 28093-28101.	3.8	12
46	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.	10.8	110
47	N-Doped Carbon Xerogels as Pt Support for the Electro-Reduction of Oxygen. Materials, 2017, 10, 1092.	1.3	31
48	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.	1.6	12
49	Palladium-Based Catalysts as Electrodes for Direct Methanol Fuel Cells: A Last Ten Years Review. Catalysts, 2016, 6, 130.	1.6	75
50	Spectroelectrochemical Study of Carbon Monoxide and Ethanol Oxidation on Pt/C, PtSn(3:1)/C and PtSn(1:1)/C Catalysts. Molecules, 2016, 21, 1225.	1.7	25
51	Oxidation of CO and Methanol on Pd-Ni Catalysts Supported on Different Chemically-Treated Carbon Nanofibers. Nanomaterials, 2016, 6, 187.	1.9	15
52	Ironâ€"nitrogen-functionalized carbon as efficient oxygen reduction reaction electrocatalyst in microbial fuel cells. International Journal of Hydrogen Energy, 2016, 41, 19637-19644.	3.8	47
53	Sulfurized carbon xerogels as Pt support with enhanced activity for fuel cell applications. Applied Catalysis B: Environmental, 2016, 192, 260-267.	10.8	46
54	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.	3.8	16

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55	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.	3.8	15
56	Iron-Based Electrocatalysts Supported on Nanostructured Carbon to Enhance Oxygen Reduction in Microbial Fuel Cells. ECS Transactions, 2016, 72, 9-15.	0.3	8
57	Ethanol Oxidation on Snâ€modified Pt Singleâ€Crystal Electrodes: New Mechanistic Insights from Onâ€line Electrochemical Mass Spectrometry. ChemElectroChem, 2016, 3, 2196-2201.	1.7	21
58	Palladiumâ€"nickel catalysts supported on different chemically-treated carbon blacks for methanol oxidation in alkaline media. International Journal of Hydrogen Energy, 2016, 41, 19556-19569.	3.8	35
59	Analysis of the strategies for bridging the gap towards the Hydrogen Economy. International Journal of Hydrogen Energy, 2016, 41, 19500-19508.	3.8	148
60	Palladiumâ€"nickel materials as cathode electrocatalysts for alkaline fuel cells. International Journal of Hydrogen Energy, 2016, 41, 22538-22546.	3.8	18
61	Electrochemical reactors for CO 2 reduction: From acid media to gas phase. International Journal of Hydrogen Energy, 2016, 41, 19756-19765.	3.8	30
62	A preface to the special issue on â€œThe 5th Iberian Symposium on Hydrogen, Fuel Cells and Advanced Batteries (HYCELTEC 2015), 5â€"8 July 2015, Tenerife, Spainâ€• International Journal of Hydrogen Energy, 2016, 41, 19499.	3.8	0
63	Carbon Nanofibers as Advanced Pd Catalyst Supports for the Air Electrode of Alkaline Metalâ€"Air Batteries. ChemPlusChem, 2015, 80, 1384-1388.	1.3	20
64	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.	10.8	63
65	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.	1.6	27
66	Tailoring carbon xerogels' properties to enhance catalytic activity of Pt catalysts towards methanol oxidation. International Journal of Hydrogen Energy, 2015, 40, 14736-14745.	3.8	15
67	Carbon-based catalysts: Synthesis and applications. Comptes Rendus Chimie, 2015, 18, 1229-1241.	0.2	44
68	The role of Sn, Ru and Ir on the ethanol electrooxidation on Pt3M/TiCN electrocatalysts. International Journal of Hydrogen Energy, 2015, 40, 14519-14528.	3.8	20
69	Carbon monoxide and methanol oxidations on carbon nanofibers supported Ptâ€"Ru electrodes at different temperatures. Electrochimica Acta, 2015, 186, 359-368.	2.6	31
70	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.	0.2	16
71	Electrochemical oxidation of CO and methanol on Ptâ€"Ru catalysts supported on carbon nanofibers: the influence of synthesis method. Applied Catalysis B: Environmental, 2015, 165, 676-686.	10.8	80
72	Pd catalysts supported onto nanostructured carbon materials for CO2 valorization by electrochemical reduction. Applied Catalysis B: Environmental, 2015, 163, 83-95.	10.8	84

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73	Influence of the surface potassium species in Feâ€"K/Al2O3 catalysts on the soot oxidation activity in the presence of NOx. Applied Catalysis B: Environmental, 2014, 152-153, 88-98.	10.8	82
74	Carbon nanofiber-based counter electrodes for low cost dye-sensitized solar cells. Journal of Power Sources, 2014, 250, 242-249.	4.0	65
75	Hydrogen and multiwall carbon nanotubes production by catalytic decomposition of methane: Thermogravimetric analysis and scaling-up of Feâ€"Mo catalysts. International Journal of Hydrogen Energy, 2014, 39, 3698-3709.	3.8	77
76	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.	3.8	37
77	Towards new generation fuel cell electrocatalysts based on xerogelâ€"nanofiber carbon composites. Journal of Materials Chemistry A, 2014, 2, 13713.	5.2	33
78	Oxidized carbon nanofibers supporting PtRu nanoparticles for direct methanol fuel cells. International Journal of Hydrogen Energy, 2014, 39, 5414-5423.	3.8	33
79	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.	10.8	48
80	Fuel cell performance of Pt electrocatalysts supported on carbon nanocoils. International Journal of Hydrogen Energy, 2014, 39, 5371-5377.	3.8	31
81	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.	0.2	6
82	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.	10.8	51
83	CH4 and CO2 partial pressures influence and deactivation study on the Catalytic Decomposition of Biogas over a Ni catalyst. Fuel, 2013, 111, 778-783.	3.4	13
84	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.	1.3	20
85	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.	1.9	22
86	Platinum Ruthenium Catalysts Supported on Carbon Xerogel for Methanol Electroâ€Oxidation: Influence of the Catalyst Synthesis Method. ChemCatChem, 2013, 5, 3770-3780.	1.8	20
87	Methanol Oxidation at Diamond-Supported Pt Nanoparticles: Effect of the Diamond Surface Termination. Journal of Physical Chemistry C, 2013, 117, 21735-21742.	1.5	24
88	On the importance of the structure in the electrical conductivity of fishbone carbon nanofibers. Journal of Materials Science, 2013, 48, 1423-1435.	1.7	29
89	Carbon nanocoils as catalysts support for methanol electrooxidation: AÂDifferential Electrochemical Mass Spectrometry (DEMS) study. Journal of Power Sources, 2013, 239, 72-80.	4.0	12
90	Optimizing the synthesis of carbon nanofiber based electrocatalysts for fuel cells. Applied Catalysis B: Environmental, 2013, 132-133, 22-27.	10.8	45

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91	Comparative study of Pt catalysts supported on different high conductive carbon materials for methanol and ethanol oxidation. Electrochimica Acta, 2013, 102, 19-27.	2.6	41
92	Synthesis and application of gold-carbon hybrids as catalysts for the hydroamination of alkynes. Applied Catalysis A: General, 2013, 456, 88-95.	2.2	34
93	Investigation of several graphite-based electrodes for vanadium redox flow cell. Journal of Power Sources, 2013, 227, 15-23.	4.0	131
94	Oxygen-Functionalized Highly Mesoporous Carbon Xerogel Based Catalysts for Direct Methanol Fuel Cell Anodes. Journal of Physical Chemistry C, 2013, 117, 13045-13058.	1.5	43
95	Preparation of polymer composites using nanostructured carbon produced at large scale by catalytic decomposition of methane. Materials Chemistry and Physics, 2013, 137, 859-865.	2.0	6
96	PtRu Nanoparticles Deposited by the Sulfite Complex Method on Highly Porous Carbon Xerogels: Effect of the Thermal Treatment. Catalysts, 2013, 3, 744-756.	1.6	11
97	Nanostructured Carbon Materials as Supports in the Preparation of Direct Methanol Fuel Cell Electrocatalysts. Catalysts, 2013, 3, 671-682.	1.6	15
98	A Case of Late-Stage Lymphogranuloma Venereum in a Woman in Europe. Sexually Transmitted Diseases, 2013, 40, 792-793.	0.8	5
99	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.	1.2	2
100	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
101	Tailoring Synthesis Conditions of Carbon Xerogels towards Their Utilization as Pt-Catalyst Supports for Oxygen Reduction Reaction (ORR). Catalysts, 2012, 2, 466-489.	1.6	33
102	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.	2.2	32
103	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.	2.2	32
104	Electrocatalytic Properties of Strained Pd Nanoshells at Au Nanostructures: CO and HCOOH Oxidation. Journal of Physical Chemistry C, 2012, 116, 692-699.	1.5	31
105	Effect of Carbon Supports on Electrocatalytic Reactivity of Auâ€"Pd Coreâ€"Shell Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 6275-6282.	1.5	34
106	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.	1.8	60
107	Response to the comments on â€œMetallic and carbonaceous-based catalysts performance in the solar catalytic decomposition of methane for hydrogen and carbon productionâ€•by A. Rollinson. International Journal of Hydrogen Energy, 2012, 37, 14716-14717.	3.8	2
108	Influence of the inherent metal species on the graphitization of methane-based carbon nanofibers. Carbon, 2012, 50, 5387-5394.	5.4	19

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109	Carbon Nanocoils as Unusual Electrode Materials for Supercapacitors. Journal of the Electrochemical Society, 2012, 159, A464-A469.	1.3	17
110	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.	3.8	33
111	Electrochemical performance of low temperature PEMFC with surface tailored carbon nanofibers as catalyst support. International Journal of Hydrogen Energy, 2012, 37, 393-404.	3.8	49
112	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.	3.8	25
113	Influence of supportâ€™s oxygen functionalization on the activity of Pt/carbon xerogels catalysts for methanol electro-oxidation. International Journal of Hydrogen Energy, 2012, 37, 7180-7191.	3.8	44
114	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.	3.8	29
115	Electrochemical performance of Pd and Auâ€“Pd coreâ€“shell nanoparticles on surface tailored carbon black as catalyst support. International Journal of Hydrogen Energy, 2012, 37, 7152-7160.	3.8	42
116	Ptâ€“Ru catalysts supported on carbon xerogels for PEM fuel cells. International Journal of Hydrogen Energy, 2012, 37, 7200-7211.	3.8	44
117	Enhanced oxygen reduction activity and durability of Pt catalysts supported on carbon nanofibers. Applied Catalysis B: Environmental, 2012, 115-116, 269-275.	10.8	109
118	Metallic and carbonaceous â€“based catalysts performance in the solar catalytic decomposition of methane for hydrogen and carbon production. International Journal of Hydrogen Energy, 2012, 37, 9645-9655.	3.8	34
119	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.	4.0	25
120	Insulating diamond particles as substrate for Pd electrocatalysts. Chemical Communications, 2011, 47, 7656.	2.2	23
121	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.	2.0	53
122	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.	3.8	66
123	Soot oxidation in the presence of NO over alumina-supported bimetallic catalysts Kâ€“Me (Me=Cu, Co,) Tj ETQq1 1 0.784314 rgBT /Ove	2.2	11
124	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.	2.2	7
125	Pt and PtRu electrocatalysts supported on carbon xerogels for direct methanol fuel cells. Journal of Power Sources, 2011, 196, 4226-4235.	4.0	59
126	Catalytic decomposition of methane for the simultaneous co-production of CO2-free hydrogen and carbon nanofibre based polymers. Fuel, 2011, 90, 430-432.	3.4	22

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127	Catalytic decomposition of methane and methane/CO2 mixtures to produce synthesis gas and nanostructured carbonaceous material. Fuel, 2011, 90, 2245-2253.	3.4	33
128	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.	3.7	77
129	High temperature iron-based catalysts for hydrogen and nanostructured carbon production by methane decomposition. International Journal of Hydrogen Energy, 2011, 36, 7832-7843.	3.8	111
130	Modification of the properties of carbon nanocoils by different treatments in liquid phase. Microporous and Mesoporous Materials, 2011, 142, 55-61.	2.2	16
131	Formation of hydrogen and filamentous carbon over a Niâ€"Cuâ€"Al2O3 catalyst through ethane decomposition. Applied Catalysis A: General, 2011, 394, 220-227.	2.2	10
132	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.	4.0	26
133	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	18
134	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
135	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.	6.6	17
136	Technical electrodes catalyzed with PtRu on mesoporous ordered carbons for liquid direct methanol fuel cells. Journal of Solid State Electrochemistry, 2010, 14, 1027-1034.	1.2	32
137	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.	2.6	11
138	Ptâ€"Ru electrocatalysts supported on ordered mesoporous carbon for direct methanol fuel cell. Journal of Power Sources, 2010, 195, 4022-4029.	4.0	132
139	The graphitization of carbon nanofibers produced by catalytic decomposition of methane: Synergetic effect of the inherent Ni and Si. Fuel, 2010, 89, 2160-2162.	3.4	22
140	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.	3.8	69
141	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.	3.8	102
142	Characterization of nanofibrous carbon produced at pilot-scale in a fluidized bed reactor by methane decomposition. Chemical Engineering Journal, 2010, 156, 170-176.	6.6	19
143	The effect of the functionalization of carbon nanofibers on their electronic conductivity. Carbon, 2010, 48, 4421-4431.	5.4	115
144	Study of the Synthesis Conditions of Carbon Nanocoils for Energetic Applications. Energy & Fuels, 2010, 24, 3361-3365.	2.5	23

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145	H₂â^'CH₄ Mixtures Produced by Carbon-Catalyzed Methane Decomposition as a Fuel for Internal Combustion Engines. Energy & Fuels, 2010, 24, 3340-3345.	2.5	19
146	Study of the Surface Chemistry of Modified Carbon Nanofibers by Oxidation Treatments in Liquid Phase. Journal of Nanoscience and Nanotechnology, 2009, 9, 4164-4169.	0.9	25
147	Cherry stones as precursor of activated carbons for supercapacitors. Materials Chemistry and Physics, 2009, 114, 323-327.	2.0	180
148	Modification of the surface chemistry of mesoporous carbons obtained through colloidal silica templates. Materials Chemistry and Physics, 2009, 118, 249-253.	2.0	7
149	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.	4.0	67
150	Pt supported on carbon nanofibers as electrocatalyst for low temperature polymer electrolyte membrane fuel cells. Electrochemistry Communications, 2009, 11, 1081-1084.	2.3	37
151	A novel rotary reactor configuration for simultaneous production of hydrogen and carbon nanofibers. International Journal of Hydrogen Energy, 2009, 34, 8016-8022.	3.8	33
152	CO tolerant PtRuâ€"MoOx nanoparticles supported on carbon nanofibers for direct methanol fuel cells. Journal of Power Sources, 2009, 186, 299-304.	4.0	55
153	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.	4.0	34
154	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.	4.0	64
155	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.	4.0	35
156	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.	6.6	58
157	Vanadium loaded carbon-based monoliths for the on-board No reduction: Influence of vanadia and tungsten loadings. Chemical Engineering Journal, 2009, 155, 68-75.	6.6	14
158	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.	2.2	52
159	The graphitization of carbon nanofibers produced by the catalytic decomposition of natural gas. Carbon, 2009, 47, 2563-2570.	5.4	39
160	Carbon Nanofiber Growth Optimization for Their Use as Electrocatalyst Support in Proton Exchange Membrane (PEM) Fuel Cells. Journal of Nanoscience and Nanotechnology, 2009, 9, 4353-4359.	0.9	16
161	Characterization of Carbon Nanofibers Grown Over Ni and Ni-Cu Catalysts. Journal of Nanoscience and Nanotechnology, 2009, 9, 4170-4179.	0.9	2
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