M Carmen RomÃ¡n-MartÃ-nez

List of Publications by Year
in descending order

74	2,708	26	51
papers	citations	h-index	g-index
		218677	182427

74	74	74	3098
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ni, Co and bimetallic Niâ€“Co catalysts for the dry reforming of methane. Applied Catalysis A: General, 2009, 371, 54-59.	4.3	379
2	Effect of potassium content in the activity of K-promoted Ni/Al2O3 catalysts for the dry reforming of methane. Applied Catalysis A: General, 2006, 301, 9-15.	4.3	208
3	Metal-support interaction in Pt/C catalysts. Influence of the support surface chemistry and the metal precursor. Carbon, 1995, 33, 3-13.	10.3	191
4	Tpd and TPR characterization of carbonaceous supports and Pt/C catalysts. Carbon, 1993, 31, 895-902.	10.3	149
5	Nickel catalyst activation in the carbon dioxide reforming of methane. Applied Catalysis A: General, 2009, 355, 27-32.	4.3	135
6	Catalytic activity and characterization of Ni/Al2O3 and NiK/Al2O3 catalysts for CO2 methane reforming. Applied Catalysis A: General, 2004, 264, 169-174.	4.3	116
7	States of Pt in Pt/C catalyst precursors after impregnation, drying and reduction steps. Applied Catalysis A: General, 1998, 170, 93-103.	4.3	92
8	Low metal content Co and Ni alumina supported catalysts for the CO2 reforming of methane. International Journal of Hydrogen Energy, 2013, 38, 2230-2239.	7.1	84
9	The effects of hydrogen on thermal desorption of oxygen surface complexes. Carbon, 1997, 35, 543-554.	10.3	81
10	Characterization of Bimetallic PtSn Catalysts Supported on Purified and H2O2-Functionalized Carbons Used for Hydrogenation Reactions. Journal of Catalysis, 1999, 184, 514-525.	6.2	72
11	Influence of Pt addition to Ni catalysts on the catalytic performance for long term dry reforming of methane. Applied Catalysis A: General, 2012, 435-436, 10-18.	4.3	71
12	One step hydrothermal synthesis of TiO2 with variable HCl concentration: Detailed characterization and photocatalytic activity in propene oxidation. Applied Catalysis B: Environmental, 2018, 220, 645-653.	20.2	61
13	Catalytic properties of a Rhâ€“diamine complex anchored on activated carbon: Effect of different surface oxygen groups. Applied Catalysis A: General, 2007, 331, 26-33.	4.3	48
14	K and Sr promoted Co alumina supported catalysts for the CO2 reforming of methane. Catalysis Today, 2011, 176, 187-190.	4.4	47
15	Selective porosity development by calcium-catalyzed carbon gasification. Carbon, 1996, 34, 869-878.	10.3	42
16	Rhodium-diphosphine complex bound to activated carbon. Journal of Molecular Catalysis A, 2004, 213, 177-182.	4.8	42
17	Insight into the immobilization of ionic liquids on porous carbons. Carbon, 2014, 77, 947-957.	10.3	40
18	Effect of the Preparation Method (Sol-Gel or Hydrothermal) and Conditions on the TiO2 Properties and Activity for Propene Oxidation. Materials, 2018, 11, 2227.	2.9	40

#	Article	IF	Citations
19	Effects of compression on the textural properties of porous solids. Microporous and Mesoporous Materials, 2009, 126, 291-301.	4.4	37
20	Chiral rhodium complexes covalently anchored on carbon nanotubes for enantioselective hydrogenation. Dalton Transactions, 2014, 43, 7455.	3.3	37
21	[PdCl2(NH2(CH2)12CH3)2] supported on an active carbon: effect of the carbon properties on the catalytic activity of cyclohexene hydrogenation. Journal of Molecular Catalysis A, 2000, 153, 243-256.	4.8	36
22	Design of carbon supports for metal-catalyzed acetylene hydrochlorination. Nature Communications, 2021, 12, 4016.	12.8	35
23	XAFS Study of Dried and Reduced PtSn/C Catalysts: Nature and Structure of the Catalytically Active Phase. Langmuir, 2000, 16, 1123-1131.	3.5	32
24	Effect of the support in Pt and PtSn catalysts used for selective hydrogenation of carvone. Catalysis Today, 2001, 66, 289-295.	4.4	30
25	State of Pt in Dried and Reduced PtIn and PtSn Catalysts Supported on Carbon. Journal of Physical Chemistry C, 2007, 111, 4710-4716.	3.1	30
26	Structural study of a phenolformaldehyde char. Carbon, 1996, 34, 719-727.	10.3	28
27	Cu/TiO 2 photocatalysts for the conversion of acetic acid into biogas and hydrogen. Catalysis Today, 2017, 287, 78-84.	4.4	26
28	Effects of confinement in hybrid diamine-Rh complex-carbon catalysts used for hydrogenation reactions. Microporous and Mesoporous Materials, 2008, 109, 305-316.	4.4	25
29	[Rh(Î¼-Cl)(COD)] 2 supported on activated carbons for the hydroformylation of 1-octene: effects of support surface chemistry and solvent. Journal of Molecular Catalysis A, 2001, 170, 81-93.	4.8	23
30	Carbon dioxide hydrogenation catalyzed by alkaline earth- and platinum-based catalysts supported on carbon. Applied Catalysis A: General, 1994, 116, 187-204.	4.3	21
31	TiO2 Modification with Transition Metallic Species (Cr, Co, Ni, and Cu) for Photocatalytic Abatement of Acetic Acid in Liquid Phase and Propene in Gas Phase. Materials, 2019, 12, 40.	2.9	21
32	Structure Sensitivity of CO2Hydrogenation Reaction Catalyzed by Pt/Carbon Catalysts. Langmuir, 1996, 12, 379-385.	3.5	20
33	Exploiting the surface â€"OH groups on activated carbons and carbon nanotubes for the immobilization of a Rh complex. Carbon, 2006, 44, 605-608.	10.3	20
34	Comparison of hydrogen adsorption abilities of platinum-loaded carbon fibers prepared using two different methods. Carbon, 2000, 38, 778-780.	10.3	19
35	Carbon-Black-Supported Ru Catalysts for the Valorization of Cellulose through Hydrolytic Hydrogenation. Catalysts, 2018, 8, 572.	3.5	19
36	Chemical Activation of Lignocellulosic Precursors and Residues: What Else to Consider?. Molecules, 2022, 27, 1630.	3.8	19

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37	Activated-Carbon-Heterogenized [PdCl2(NH2(CH2)12CH3)2] for the Selective Hydrogenation of 1-Heptyne. Catalysis Letters, 2003, 87, 97-101.	2.6	18
38	Upper limit of hydrogen adsorption on activated carbons at room temperature: A thermodynamic approach to understand the hydrogen adsorption on microporous carbons. Microporous and Mesoporous Materials, 2008, 112, 510-520.	4.4	18
39	Preparation of platinum loaded carbon fiber by using a polymer blend. Carbon, 1997, 35, 1676-1677.	10.3	17
40	Hybrid Rh catalysts prepared with carbon nanotubes of different inner diameter. Microporous and Mesoporous Materials, 2011, 139, 164-172.	4.4	17
41	CO2 hydrogenation under pressure on catalysts Ptî—¸Ca/C. Applied Catalysis A: General, 1996, 134, 159-167.	4.3	16
42	Immobilization of a Rh complex derived from the Wilkinson's catalyst on activated carbon and carbon nanotubes. Applied Catalysis A: General, 2011, 402, 132-138.	4.3	16
43	Ligand adsorption on different activated carbon materials for catalyst anchorage. Carbon, 2004, 42, 1357-1361.	10.3	15
44	A TEOM-MS study on the interaction of N2O with a hydrotalcite-derived multimetallic mixed oxide catalyst. Applied Catalysis A: General, 2002, 225, 87-100.	4.3	14
45	Hybrid Catalysts Based on Carbon Nanotubes and Nanofibres. Journal of Nanoscience and Nanotechnology, 2009, 9, 6034-6041.	0.9	14
46	Heterogenization of Homogeneous Catalysts on Carbon Materials. , 2013, , 55-78.		13
47	Cellulose hydrolysis catalysed by mesoporous activated carbons functionalized under mild conditions. SN Applied Sciences, 2019, 1, 1.	2.9	12
48	Strategies for the heterogenization of rhodium complexes on activated carbon. Studies in Surface Science and Catalysis, 2000, 143, 295-304.	1.5	10
49	Support effects in a Rh diamine complex heterogenized on carbon materials. ChemCatChem, 2013, 5, 1587-1597.	3.7	10
50	Structured carbons as supports for hydrogenation hybrid catalysts prepared by the immobilization of a Rh diamine complex. Chemical Engineering Journal, 2016, 291, 47-54.	12.7	10
51	Effect of counteranion of ammonium salts on the synthesis of porous nanoparticles (NH4)3[PMo12O40]. Solid State Sciences, 2011, 13, 30-37.	3.2	9
52	Ru Catalysts Supported on Commercial and Biomass-Derived Activated Carbons for the Transformation of Levulinic Acid into Î³-Valerolactone under Mild Conditions. Catalysts, 2021, 11, 559.	3.5	9
53	New hybrid materials based on the grafting of Pd(<scp>ii</scp>)-amino complexes on the graphitic surface of AC: preparation, structures and catalytic properties. RSC Advances, 2016, 6, 58247-58259.	3.6	8
54	Photocatalytic Oxidation of Propane Using Hydrothermally Prepared Anatase-Brookite-Rutile TiO2 Samples. An In Situ DRIFTS Study. Nanomaterials, 2020, 10, 1314.	4.1	8

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55	Long-Chain-Amine Metal Complexes as Hydrogenation Catalysts. Heterogenisation on Activated Carbon. Catalysis Letters, 2001, 77, 41-46.	2.6	7
56	Carbon-supported PtSn Catalysts: Characterization and Catalytic Properties. Journal of the Japan Petroleum Institute, 2004, 47, 164-178.	0.6	7
57	Non-covalent immobilization of RhDuphos on carbon nanotubes and carbon xerogels. Applied Catalysis A: General, 2014, 478, 194-203.	4.3	7
58	Mesoporous Activated Carbon Supported Ru Catalysts to Efficiently Convert Cellulose into Sorbitol by Hydrolytic Hydrogenation. Energies, 2020, 13, 4394.	3.1	7
59	Highly Active Catalyst from [PdCl2(NH2(CH2)12CH3)2] on NH4ZSM-5. Catalysis Letters, 2001, 76, 41-43.	2.6	6
60	Immobilization of homogeneous catalysts in nanostructured carbon xerogels. Studies in Surface Science and Catalysis, 2010, , 647-651.	1.5	6
61	Enhancement of the hydrogenation activity of a Pd-tridecilamine (TDA) complex by confinement in carbon nanotubes. Microporous and Mesoporous Materials, 2016, 225, 378-384.	4.4	6
62	Enhancement of the TiO2 photoactivity for propene oxidation by carbon incorporation using saccharose in hydrothermal synthesis. Journal of Environmental Chemical Engineering, 2021, 9, 104941.	6.7	6
63	Comparison of particulate matter emission and soluble matter collected from combustion cigarettes and heated tobacco products using a setup designed to simulate puffing regimes. Chemical Engineering Journal Advances, 2021, 8, 100144.	5.2	6
64	Fundamentals of vapors adsorption onto activated carbon fibers assessed by the comparative analysis of N2 and CO2 adsorption. Separation and Purification Technology, 2012, 85, 83-89.	7.9	5
65	Support effects on SILP hybrid catalysts prepared with carbon materials and the RhCOD complex. RSC Advances, 2016, 6, 100976-100983.	3.6	5
66	TiO2 and TiO2-Carbon Hybrid Photocatalysts for Diuron Removal from Water. Catalysts, 2021, 11, 457.	3.5	5
67	Impact of TiO2 Surface Defects on the Mechanism of Acetaldehyde Decomposition under Irradiation of a Fluorescent Lamp. Catalysts, 2021, 11, 1281.	3.5	5
68	Significant porosity effects in carbon based SILP chiral catalysts. Molecular Catalysis, 2018, 453, 31-38.	2.0	4
69	Advantages of the Incorporation of Luffa-Based Activated Carbon to Titania for Improving the Removal of Methylene Blue from Aqueous Solution. Applied Sciences (Switzerland), 2021, 11, 7607.	2.5	4
70	Ligand Tethering by Ion-Exchange for the Immobilization of Homogeneous Catalysts. Current Catalysis, 2012, 1, 100-106.	0.5	4
71	Solid matter and soluble compounds collected from cigarette smoke and heated tobacco product aerosol using a laboratory designed puffing setup. Environmental Research, 2022, 206, 112619.	7.5	3
72	Unraveling Toluene Conversion during the Liquid Phase Hydrogenation of Cyclohexene (in Toluene) with Rh Hybrid Catalysts. Catalysts, 2019, 9, 973.	3.5	2

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73	Heterogenization of a Chiral Molecular Catalyst on a Carbon Support using Tryptophan as Anchor Molecule. European Journal of Inorganic Chemistry, 2021, 2021, 223-225.	2.0	2
74	N2O decomposition on hydrotalcite based catalysts. A mechanistic approach. , 1999, , 343-348.		1