Inmaculada Rodriguez-Ramos

List of Publications by Year
in descending order

264 papers	8,401 citations	46918 47 h-index	74018 75 g-index
273 all docs	273 docs citations	273 times ranked	8321 citing authors

#	Article	IF	Citations
1	Interaction of Carbon Dioxide with the Surface of Zirconia Polymorphs. Langmuir, 1998, 14, 3556-3564.	1.6	286
2	Comparative study at low and medium reaction temperatures of syngas production by methane reforming with carbon dioxide over silica and alumina supported catalysts. Applied Catalysis A: General, 1998, 170, 177-187.	2.2	207
3	Mechanistic aspects of the dry reforming of methane over ruthenium catalysts. Applied Catalysis A: General, 2000, 202, 183-196.	2.2	204
4	Characterization of carbon nanotubes and carbon nanofibers prepared by catalytic decomposition of acetylene in a fluidized bed reactor. Journal of Catalysis, 2003, 215, 305-316.	3.1	189
5	Hydrogenase-Coated Carbon Nanotubes for Efficient H2 Oxidation. Nano Letters, 2007, 7, 1603-1608.	4.5	177
6	Study of some factors affecting the Ru and Pt dispersions over high surface area graphite-supported catalysts. Applied Catalysis A: General, 1998, 173, 313-321.	2.2	155
7	The use of carbon nanotubes with and without nitrogen doping as support for ruthenium catalysts in the ammonia decomposition reaction. Carbon, 2010, 48, 267-276.	5.4	144
8	Platinum catalysts supported on activated carbons I. Preparation and characterization. Journal of Catalysis, 1986, 99, 171-183.	3.1	135
9	Methane combustion over supported palladium catalysts. Applied Catalysis B: Environmental, 2000, 28, 223-233.	10.8	134
10	Role of B5-Type Sites in Ru Catalysts used for the NH3 Decomposition Reaction. Topics in Catalysis, 2009, 52, 758-764.	1.3	132
11	Thermodynamic and experimental study of combined dry and steam reforming of methane on Ru/ZrO2-La2O3 catalyst at low temperature. International Journal of Hydrogen Energy, 2011, 36, 15212-15220.	3.8	129
12	Transient studies of low-temperature dry reforming of methane over Ni-CaO/ZrO2-La2O3. Applied Catalysis B: Environmental, 2013, 129, 450-459.	10.8	120
13	Surface chemical modifications induced on high surface area graphite and carbon nanofibers using different oxidation and functionalization treatments. Journal of Colloid and Interface Science, 2011, 355, 179-189.	5.0	110
14	Catalytic wet air oxidation of phenol and acrylic acid over Ru/C and Ruâ€"CeO2/C catalysts. Applied Catalysis B: Environmental, 2000, 25, 267-275.	10.8	101
15	Growing mechanism of CNTs: a kinetic approach. Journal of Catalysis, 2004, 224, 197-205.	3.1	99
16	Novel electrochemical sensor based on N-doped carbon nanotubes and Fe3O4 nanoparticles: Simultaneous voltammetric determination of ascorbic acid, dopamine and uric acid. Journal of Colloid and Interface Science, 2014, 432, 207-213.	5.0	99
17	A Transient Kinetic Study of the Carbon Dioxide Reforming of Methane over Supported Ru Catalysts. Journal of Catalysis, 1999, 184, 202-212.	3.1	96
18	Palladium sulphide â€" A highly selective catalyst for the gas phase hydrogenation of alkynes to alkenes. Journal of Catalysis, 2016, 340, 10-16.	3.1	96

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19	Selective Reduction of NOxwith Propene under Oxidative Conditions:Â Nature of the Active Sites on Copper-Based Catalysts. Journal of the American Chemical Society, 1997, 119, 2905-2914.	6.6	93
20	High purity hydrogen production by low temperature catalytic ammonia decomposition in a multifunctional membrane reactor. Catalysis Communications, 2008, 9, 482-486.	1.6	92
21	Adsorption of emerging pollutants on functionalized multiwall carbon nanotubes. Chemosphere, 2015, 136, 174-180.	4.2	88
22	Influence of Si/Zr ratio on the formation of surface acidity in silica-zirconia aerogels. Journal of Catalysis, 2000, 192, 344-354.	3.1	83
23	Hydrogenation of Citral on Activated Carbon and High-Surface-Area Graphite-Supported Ruthenium Catalysts Modified with Iron. Journal of Catalysis, 2001, 204, 450-459.	3.1	83
24	MnFe2O4@CNT-N as novel electrochemical nanosensor for determination of caffeine, acetaminophen and ascorbic acid. Sensors and Actuators B: Chemical, 2015, 218, 128-136.	4.0	83
25	Dehydrogenation of methanol to methyl formate over supported copper catalysts. Applied Catalysis, 1991, 72, 119-137.	1.1	82
26	Carbon monoxide hydrogenation over carbon supported cobalt or ruthenium catalysts. promoting effects of magnesium, vanadium and cerium oxides. Applied Catalysis A: General, 1994, 120, 71-83.	2.2	81
27	Methane interaction with silica and alumina supported metal catalysts. Applied Catalysis A: General, 1997, 148, 343-356.	2.2	76
28	Effect of carbon nanofiber functionalization on the adsorption properties of volatile organic compounds. Journal of Chromatography A, 2008, 1188, 264-273.	1.8	76
29	Influence of Mg and Ce addition to ruthenium based catalysts used in the selective hydrogenation of Î±,Î²-unsaturated aldehydes. Applied Catalysis A: General, 2001, 205, 227-237.	2.2	75
30	Reduction of NOx in C3H6/air mixtures over Cu/Al2O3 catalysts. Applied Catalysis B: Environmental, 1997, 14, 189-202.	10.8	68
31	Effect of surface area and physicalâ€“chemical properties of graphite and graphene-based materials on their adsorption capacity towards metronidazole and trimethoprim antibiotics in aqueous solution. Chemical Engineering Journal, 2020, 402, 126155.	6.6	67
32	Oxydehydrogenation of ethylbenzene to styrene catalyzed by graphites and activated carbons. Carbon, 1994, 32, 23-29.	5.4	63
33	Comparative study of the hydrogenolysis of glycerol over Ru-based catalysts supported on activated carbon, graphite, carbon nanotubes and KL-zeolite. Chemical Engineering Journal, 2015, 262, 326-333.	6.6	59
34	Role of the residual chlorides in platinum and ruthenium catalysts for the hydrogenation of Î±,Î²-unsaturated aldehydes. Applied Catalysis A: General, 2000, 192, 289-297.	2.2	58
35	Modification of the adsorption properties of high surface area graphites by oxygen functional groups. Carbon, 2008, 46, 2096-2106.	5.4	58
36	Selective hydrogenation of mixed alkyne/alkene streams at elevated pressure over a palladium sulfide catalyst. Journal of Catalysis, 2017, 355, 40-52.	3.1	56

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37	Tracking Down the Reduction Behavior of Copper-on-Alumina Catalysts. Journal of Catalysis, 1998, 178, 253-263.	3.1	54
38	Development of highly efficient Cu versus Pd catalysts supported on graphitic carbon materials for the reduction of 4-nitrophenol to 4-aminophenol at room temperature. Carbon, 2017, 111, 150-161.	5.4	54
39	Synthesis and characterization of carbon black supported Ptâ€“Ru alloy as a model catalyst for fuel cells. Catalysis Today, 2004, 93-95, 619-626.	2.2	52
40	Modification of catalytic properties over carbon supported Ruâ€“Cu and Niâ€“Cu bimetallics. Applied Catalysis A: General, 2006, 300, 120-129.	2.2	51
41	Evaluation of the Role of the Metalâ€“Support Interfacial Centers in the Dry Reforming of Methane on Alumina-Supported Rhodium Catalysts. Journal of Catalysis, 2000, 190, 296-308.	3.1	50
42	Selective Deposition of Gold Nanoparticles on or Inside Carbon Nanotubes and Their Catalytic Activity for Preferential Oxidation of CO. European Journal of Inorganic Chemistry, 2010, 2010, 5096-5102.	1.0	50
43	Effect of the functional groups of carbon on the surface and catalytic properties of Ru/C catalysts for hydrogenolysis of glycerol. Applied Surface Science, 2013, 287, 108-116.	3.1	50
44	The effect of Cu loading on Ni/carbon nanotubes catalysts for hydrodeoxygenation of guaiacol. RSC Advances, 2016, 6, 26658-26667.	1.7	50
45	On the applicability of membrane technology to the catalysed dry reforming of methane. Applied Catalysis A: General, 2002, 237, 239-252.	2.2	49
46	Dehydrogenation of methanol to methyl formate over copper-containing perovskite-type oxides. Applied Catalysis, 1991, 68, 217-228.	1.1	48
47	Comparative Study by Infrared Spectroscopy and Microcalorimetry of the CO Adsorption over Supported Palladium Catalysts. Langmuir, 2000, 16, 8100-8106.	1.6	48
48	Removal of no over carbon-supported copper catalysts. I. Reactivity of no with graphite and activated carbon. Carbon, 1996, 34, 339-346.	5.4	46
49	TAP studies of ammonia decomposition over Ru and Ir catalysts. Physical Chemistry Chemical Physics, 2011, 13, 12892.	1.3	46
50	Optimization of ruthenium based catalysts for the aqueous phase hydrogenation of furfural to furfuryl alcohol. Applied Catalysis A: General, 2018, 563, 177-184.	2.2	45
51	Further insights into the Ru nanoparticlesâ€“carbon interactions and their role in the catalytic properties. Carbon, 2005, 43, 2711-2722.	5.4	44
52	Dry reforming of methane using Pd-based membrane reactors fabricated from different substrates. Journal of Membrane Science, 2013, 435, 218-225.	4.1	44
53	Reactions of propene on supported molybdenum and tungsten oxides. Journal of Molecular Catalysis A, 1995, 95, 147-154.	4.8	43
54	Isotopic tracing experiments in syngas production from methane on Ru/Al2O3 and Ru/SiO2. Catalysis Today, 1998, 46, 99-105.	2.2	43

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55	Chemoselective hydrogenation of cinnamaldehyde: A comparison of the immobilization of Ruâ€“phosphine complex on graphite oxide and on graphitic surfaces. Journal of Catalysis, 2011, 282, 299-309.	3.1	43
56	Porous carbon as support for iron and ruthenium catalysts. Fuel, 1984, 63, 1089-1094.	3.4	42
57	Modifications of the citral hydrogenation selectivities over Ru/KL-zeolite catalysts induced by the metal precursors. Catalysis Today, 2005, 107-108, 302-309.	2.2	42
58	Polyoxotungstate@Carbon Nanocomposites As Oxygen Reduction Reaction (ORR) Electrocatalysts. Langmuir, 2018, 34, 6376-6387.	1.6	41
59	Carbon nanostrutured materials as direct catalysts for phenol oxidation in aqueous phase. Applied Catalysis B: Environmental, 2011, 104, 101-109.	10.8	40
60	The role of alpha-iron and cementite phases in the growing mechanism of carbon nanotubes: a 57Fe MÃ¶ssbauer spectroscopy study. Physical Chemistry Chemical Physics, 2006, 8, 1230.	1.3	39
61	Preparation of nitrogen-containing carbon nanotubes and study of their performance as basic catalysts. Applied Catalysis A: General, 2013, 458, 155-161.	2.2	39
62	Design of surface sites for the selective hydrogenation of 1,3-butadiene on Pd nanoparticles: Cu bimetallic formation and sulfur poisoning. Catalysis Science and Technology, 2014, 4, 1446-1455.	2.1	39
63	Comparative study of three heteropolyacids supported on carbon materials as catalysts for ethylene production from bioethanol. Catalysis Science and Technology, 2017, 7, 1892-1901.	2.1	39
64	Cooperative action of heteropolyacids and carbon supported Ru catalysts for the conversion of cellulose. Catalysis Today, 2018, 301, 65-71.	2.2	39
65	Detecting the Genesis of a High-Performance Carbon-Supported Pd Sulfide Nanophase and Its Evolution in the Hydrogenation of Butadiene. ACS Catalysis, 2015, 5, 5235-5241.	5.5	38
66	The role of nitrogen and oxygen surface groups in the behavior of carbon-supported iron and ruthenium catalysts. Carbon, 1988, 26, 417-423.	5.4	37
67	On the Performance of Porous Vycor Membranes for Conversion Enhancement in the Dehydrogenation of Methylcyclohexane to Toluene. Journal of Catalysis, 2002, 212, 182-192.	3.1	37
68	Ruthenium-supported catalysts for the stereoselective hydrogenation of paracetamol to 4--acetamidocyclohexanol: effect of support, metal precursor, and solvent. Journal of Catalysis, 2005, 229, 439-445.	3.1	37
69	Nitrate reduction over a Pd-Cu/MWCNT catalyst: application to a polluted groundwater. Environmental Technology (United Kingdom), 2012, 33, 2353-2358.	1.2	37
70	Well-dispersed Rh nanoparticles with high activity for the dry reforming of methane. International Journal of Hydrogen Energy, 2017, 42, 16127-16138.	3.8	37
71	Platinum catalysts supported on activated carbons II. Isomerization and hydrogenolysis of n-butane. Journal of Catalysis, 1987, 107, 1-7.	3.1	35
72	Sulfur-resistant carbon-supported iridium catalysts: Cyclohexane dehydrogenation and benzene hydrogenation. Journal of Catalysis, 1992, 135, 458-466.	3.1	35

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73	Effect of the metal precursor on the surface site distribution of Al2O3-supported Ru catalysts: catalytic effects on the n-butane/H2 test. Applied Catalysis A: General, 2005, 283, 23-32.	2.2	35
74	Adsorption capacity of different types of carbon nanotubes towards metronidazole and dimetridazole antibiotics from aqueous solutions: effect of morphology and surface chemistry. Environmental Science and Pollution Research, 2020, 27, 17123-17137.	2.7	35
75	Bifunctional pathways in the carbon dioxide reforming of methane over MgO-promoted Ru/C catalysts. Catalysis Letters, 2000, 66, 33-37.	1.4	34
76	The promoter effect of potassium in CuO/CeO₂ systems supported on carbon nanotubes and graphene for the CO-PROX reaction. Catalysis Science and Technology, 2016, 6, 6118-6127.	2.1	34
77	Nature Of Surface Sites In The Selective Oxide Hydrogenation Of Propane Over V-Mg-O Catalysts. Studies in Surface Science and Catalysis, 1992, , 203-212.	1.5	33
78	Spectroscopic studies of surface copper spinels. Influence of pretreatments on chemical state of copper. Surface and Interface Analysis, 1993, 20, 1067-1074.	0.8	33
79	Study of CO chemisorption on graphite-supported Ruâ€"Cu and Niâ€"Cu bimetallic catalysts. Thermochimica Acta, 2005, 434, 113-118.	1.2	33
80	Cooperative action of cobalt and MgO for the catalysed reforming of CH4 with CO2. Catalysis Today, 1994, 21, 545-550.	2.2	32
81	Title is missing!. Topics in Catalysis, 2002, 19, 303-311.	1.3	32
82	Influence of the nature of support on Ru-supported catalysts for selective hydrogenation of citral. Chemical Engineering Journal, 2012, 204-206, 169-178.	6.6	32
83	Efficient hydrogen production from glycerol by steam reforming with carbon supported ruthenium catalysts. Carbon, 2016, 96, 578-587.	5.4	32
84	Efficient and stable Niâ€"Ce glycerol reforming catalysts: Chemical imaging using X-ray electron and scanning transmission microscopy. Applied Catalysis B: Environmental, 2015, 165, 139-148.	10.8	31
85	Ruthenium particle size and cesium promotion effects in Fischerâ€"Tropsch synthesis over high-surface-area graphite supported catalysts. Catalysis Science and Technology, 2017, 7, 1235-1244.	2.1	31
86	Cu and Pd nanoparticles supported on a graphitic carbon material as bifunctional HER/ORR electrocatalysts. Catalysis Today, 2020, 357, 279-290.	2.2	31
87	Ru nanoparticles supported on N-doped reduced graphene oxide as valuable catalyst for the selective aerobic oxidation of benzyl alcohol. Catalysis Today, 2020, 357, 8-14.	2.2	30
88	Carbon supported bimetallic catalysts containing iron. Applied Catalysis A: General, 1992, 81, 81-100.	2.2	29
89	Simultaneous hydrodesulfurization of thiophene and hydrogenation of cyclohexene over dimolybdenum nitride catalysts. Applied Catalysis A: General, 1999, 180, 237-245.	2.2	29
90	Effect of the carbon support nano-structures on the performance of Ru catalysts in the hydrogenation of paracetamol. Carbon, 2008, 46, 1046-1052.	5.4	29

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91	Study of the surface species formed from the interaction of NO and CO with copper ions in ZSM-5 and Y zeolites. Applied Surface Science, 1994, 78, 477-484.	3.1	28
92	Removal of NO over carbon supported copper catalysts: II. Evaluation of catalytic properties under different reaction conditions. Carbon, 1996, 34, 1509-1514.	5.4	28
93	In situ study of carbon nanotube formation by C2H2 decomposition on an iron-based catalyst. Carbon, 2000, 38, 2003-2006.	5.4	28
94	Comparative study of Cu, Ag and Ag-Cu catalysts over graphite in the ethanol dehydrogenation reaction: Catalytic activity, deactivation and regeneration. Applied Catalysis A: General, 2019, 576, 54-64.	2.2	28
95	Tunable selectivity of Ni catalysts in the hydrogenation reaction of 5-hydroxymethylfurfural in aqueous media: Role of the carbon supports. Carbon, 2021, 182, 265-275.	5.4	28
96	New Insights on the Mechanism of the NO Reduction with CO over Alumina-Supported Copper Catalysts. The Journal of Physical Chemistry, 1995, 99, 16380-16382.	2.9	27
97	Hydrogen adsorbed species at the metal/support interface on a Pt/Al2O3catalyst. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 3563-3567.	1.7	27
98	Specific Interactions between Aromatic Electrons of Organic Compounds and Graphite Surfaces As Detected by Immersion Calorimetry. Langmuir, 2004, 20, 1013-1015.	1.6	27
99	High nitrogen doped graphenes and their applicability as basic catalysts. Diamond and Related Materials, 2014, 44, 26-32.	1.8	27
100	Effect of electrolytes nature and concentration on the morphology and structure of MoS2 nanomaterials prepared using one-pot solvothermal method. Applied Surface Science, 2014, 307, 319-326.	3.1	27
101	Carbon-supported bimetallic catalysts containing iron. Applied Catalysis A: General, 1992, 81, 101-112.	2.2	26
102	Preparation, Characterization, and Activity forn-Hexane Reactions of Alumina-Supported Rhodiumâ€œCopper Catalysts. Journal of Catalysis, 1997, 171, 374-382.	3.1	26
103	Oxidative dehydrogenation of isobutane over magnesium molybdate catalysts. Catalysis Today, 2000, 61, 377-382.	2.2	26
104	Pure hydrogen production from methylcyclohexane using a new high performance membrane reactor. Chemical Communications, 2002, , 2082-2083.	2.2	26
105	Effect of nickel precursor and the copper addition on the surface properties of Ni/KL-supported catalysts for selective hydrogenation of citral. Applied Catalysis A: General, 2008, 348, 241-250.	2.2	26
106	Improved performance of carbon nanofiber-supported palladium particles in the selective 1,3-butadiene hydrogenation: Influence of carbon nanostructure, support functionalization treatment and metal precursor. Catalysis Today, 2015, 249, 63-71.	2.2	26
107	Multifunctional mixed valence N-doped CNT@MFe₂O₄ hybrid nanomaterials: from engineered one-pot coprecipitation to application in energy storage paper supercapacitors. Nanoscale, 2018, 10, 12820-12840.	2.8	26
108	Adsorption capacity of Saran carbons at high temperatures and under dynamic conditions. Carbon, 1984, 22, 301-304.	5.4	25

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109	Modification of the stereoselectivity in the citral hydrogenation by application of carbon nanotubes as support of the Pt particles. Carbon, 2006, 44, 804-806.	5.4	25
110	Comparative study of support effects in ruthenium catalysts applied for wet air oxidation of aromatic compounds. Catalysis Today, 2009, 143, 355-363.	2.2	25
111	Hydrogenolysis of n-butane and hydrogenation of carbon monoxide on Ni and Co catalysts supported on saran carbons. Applied Catalysis, 1985, 14, 159-172.	1.1	24
112	Hydrogenation of CO on carbon-supported iron catalysts prepared from iron penta-carbonyl. Applied Catalysis, 1986, 21, 251-261.	1.1	24
113	Catalytic activity of layered Î±-(tin or zirconium) phosphates and chromia-pillared derivatives for isopropyl alcohol decomposition. Applied Catalysis A: General, 1992, 92, 81-92.	2.2	24
114	Mechanism of hydrogen spillover over carbon supported metal catalysts. Studies in Surface Science and Catalysis, 1997, 112, 241-250.	1.5	24
115	Catalytic properties of carbon-supported ruthenium catalysts for n-hexane conversion. Applied Catalysis A: General, 1998, 173, 231-238.	2.2	24
116	Syntheses of CNTs over several iron-supported catalysts: influence of the metallic precursors. Catalysis Today, 2004, 93-95, 681-687.	2.2	24
117	Surface and structural effects in the hydrogenation of citral over RuCu/KL catalysts. Microporous and Mesoporous Materials, 2006, 97, 122-131.	2.2	24
118	Selective hydrogenation of citral over Pt/KL type catalysts doped with Sr, La, Nd and Sm. Applied Catalysis A: General, 2011, 401, 56-64.	2.2	24
119	Promotional effect of Cu on the structure and chloronitrobenzene hydrogenation performance of carbon nanotube and activated carbon supported Pt catalysts. Applied Catalysis A: General, 2013, 464-465, 28-34.	2.2	24
120	Direct sulfation of a Zr-based metal-organic framework to attain strong acid catalysts. Microporous and Mesoporous Materials, 2019, 290, 109686.	2.2	24
121	Decomposition of NO on Cu-loaded zeolites. Catalysis Today, 1993, 17, 167-174.	2.2	23
122	Surface study of graphite-supported Ruâ€“Co and Ruâ€“Ni bimetallic catalysts. Applied Catalysis A: General, 2004, 275, 257-269.	2.2	23
123	Efficient catalytic wet oxidation of phenol using iron acetylacetonate complexes anchored on carbon nanofibres. Carbon, 2009, 47, 2095-2102.	5.4	23
124	Time-Resolved XAS Investigation of the Local Environment and Evolution of Oxidation States of a Fischerâ€“Tropsch Ruâ€“Cs/C Catalyst. ACS Catalysis, 2016, 6, 1437-1445.	5.5	23
125	The effect of inorganic constituents of the support on the characteristics of carbon-supported platinum catalysts. Applied Catalysis, 1985, 15, 293-300.	1.1	22
126	Surface Characterization of Zirconia-Coated Alumina and Silica Carriers. Journal of Colloid and Interface Science, 1993, 159, 454-459.	5.0	22

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127	A study of carbon nanotube formation by C2H2 decomposition on an iron based catalyst using a pulsed method. Carbon, 2003, 41, 2509-2517.	5.4	22
128	Catalytic activity of gold supported on ZnO tetrapods for the preferential oxidation of carbon monoxide under hydrogen rich conditions. Nanoscale, 2011, 3, 929-932.	2.8	22
129	Deposition of gold nanoparticles on ZnO and their catalytic activity for hydrogenation applications. Catalysis Communications, 2012, 22, 79-82.	1.6	22
130	Effect of lanthanum promoter on the catalytic performance of levulinic acid hydrogenation over Ru/carbon fiber catalyst. Applied Catalysis A: General, 2017, 540, 21-30.	2.2	22
131	Selective hydrogen production from formic acid decomposition over Mo carbides supported on carbon materials. Catalysis Science and Technology, 2020, 10, 6790-6799.	2.1	22
132	Effects of functionalized carbon nanotubes in peroxide crosslinking of diene elastomers. European Polymer Journal, 2009, 45, 1017-1023.	2.6	21
133	Surface changes in Ru/KL supported catalysts induced by the preparation method and their effect on the selective hydrogenation of citral. Applied Catalysis A: General, 2009, 366, 114-121.	2.2	21
134	Structural and surface modifications of carbon nanotubes when submitted to high temperature annealing treatments. Journal of Alloys and Compounds, 2012, 536, S460-S463.	2.8	21
135	Microcalorimetric Study of H2Adsorption on Molybdenum Nitride Catalysts. Langmuir, 1999, 15, 4927-4929.	1.6	20
136	Genesis of Surface and Bulk Phases in Rhodiumâ˜Copper Catalysts. Langmuir, 1999, 15, 5295-5302.	1.6	20
137	The effect of growth temperature and iron precursor on the synthesis of high purity carbon nanotubes. Diamond and Related Materials, 2007, 16, 542-549.	1.8	20
138	Catalytic steam reforming of methane under conditions of applicability with Pd membranes over supported Ru catalysts. Catalysis Today, 2011, 171, 126-131.	2.2	20
139	When the nature of surface functionalities on modified carbon dominates the dispersion of palladium hydrogenation catalysts. Catalysis Today, 2018, 301, 248-257.	2.2	20
140	Upgrading the Properties of Reduced Graphene Oxide and Nitrogen-Doped Reduced Graphene Oxide Produced by Thermal Reduction toward Efficient ORR Electrocatalysts. Nanomaterials, 2019, 9, 1761.	1.9	20
141	Temperature dependence of the pseudomorphic transformation of MoO3 TO Î³-Mo2N. Materials Research Bulletin, 1999, 34, 145-156.	2.7	19
142	Stereoselective hydrogenation of Paracetamol to trans-4-acetamidocyclohexanol on carbon-supported Ruî—,M (M = Co, Ni) bimetallic catalysts. Catalysis Today, 2004, 93-95, 395-403.	2.2	19
143	An immersion calorimetry study of the interaction of organic compounds with carbon nanotube surfaces. Carbon, 2012, 50, 2731-2740.	5.4	19
144	Naturally-Occurring Silicates as Carriers for Copper Catalysts Used in Methanol Conversion. Clays and Clay Minerals, 1992, 40, 167-174.	0.6	18

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145	Title is missing!. Catalysis Letters, 1997, 49, 163-167.	1.4	18
146	Infiltrated glassy carbon membranes in Î³-Al2O3 supports. Journal of Membrane Science, 2006, 281, 500-507.	4.1	18
147	Following the Evolution of Ru/Activated Carbon Catalysts during the Decompositionâ€"Reduction of the Ru(NO)(NO₃)₃ Precursor. ChemCatChem, 2013, 5, 2446-2452.	1.8	18
148	Effect of Cu and Cs in the Î²-Mo2C System for CO2 Hydrogenation to Methanol. Catalysts, 2020, 10, 1213.	1.6	18
149	Effect of N-doping and carbon nanostructures on NiCu particles for hydrogen production from formic acid. Applied Catalysis B: Environmental, 2021, 298, 120604.	10.8	18
150	Efficient nickel and copper-based catalysts supported on modified graphite materials for the hydrogen production from formic acid decomposition. Applied Catalysis A: General, 2022, 629, 118419.	2.2	18
151	Role of Exposed Surfaces on Zinc Oxide Nanostructures in the Catalytic Ethanol Transformation. ChemSusChem, 2015, 8, 2223-2230.	3.6	17
152	Selective 1,3-butadiene hydrogenation by gold nanoparticles on novel nano-carbon materials. Catalysis Today, 2015, 249, 117-126.	2.2	17
153	Promoter effect of alkalis on CuO/CeO 2 /carbon nanotubes systems for the PROx reaction. Catalysis Today, 2018, 301, 141-146.	2.2	17
154	Comparison of Pd and Pd4S based catalysts for partial hydrogenation of external and internal butynes. Journal of Catalysis, 2020, 383, 51-59.	3.1	17
155	Effect of oxide promoters on the surface characteristics of carbon-supported Co and Ru catalysts. Applied Surface Science, 1989, 40, 239-247.	3.1	16
156	FTIR study of CO and NO adsorbed on nitrided CoMo/Al2O3 catalysts. Physical Chemistry Chemical Physics, 2000, 2, 3313-3317.	1.3	16
157	Changes in the selective hydrogenation of citral induced by copper addition to Ru/KL catalysts. Microporous and Mesoporous Materials, 2008, 110, 186-196.	2.2	16
158	Low Solvothermal Synthesis and Characterization of Hollow Nanospheres Molybdenum Sulfide. Journal of Nanoscience and Nanotechnology, 2012, 12, 6679-6685.	0.9	16
159	Graphite oxide as support for the immobilization of Ru-BINAP: Application in the enantioselective hydrogenation of methylacetoacetate. Catalysis Communications, 2012, 26, 149-154.	1.6	16
160	Effects of the reduction temperature over ex-chloride Ru Fischerâ€"Tropsch catalysts supported on high surface area graphite and promoted by potassium. Applied Catalysis A: General, 2014, 480, 86-92.	2.2	16
161	Preparation, Characterization, and Testing of a Carbon-Supported Catalyst Obtained by Slow Pyrolysis of Nickel Salt Impregnated Vegetal Material. Industrial & Engineering Chemistry Research, 2016, 55, 1491-1502.	1.8	16
162	PMo11V@N-CNT electrochemical properties and its application as electrochemical sensor for determination of acetaminophen. Journal of Solid State Electrochemistry, 2017, 21, 1059-1068.	1.2	16

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163	Effect of hydrogen reduction on the surface characteristics of carbon-supported iron and ruthenium catalysts. Applied Catalysis, 1986, 23, 299-307.	1.1	15
164	Effect of the basic function in Co, MgO/C catalysts on the selective oxidation of methane by carbon dioxide. Journal of the Chemical Society Chemical Communications, 1993, , 487-488.	2.0	15
165	Determination of the surface states of metallic clusters supported on alumina using microcalorimetry of CO adsorption. Thermochimica Acta, 2001, 379, 195-199.	1.2	15
166	Surface study of rhodium nanoparticles supported on alumina. Catalysis Today, 2004, 93-95, 567-574.	2.2	15
167	Kinetic analysis of the Ru/SiO2-catalyzed low temperature methane steam reforming. Applied Catalysis A: General, 2012, 413-414, 366-374.	2.2	15
168	Microwave-assisted silylation of graphite oxide and iron(III) porphyrin intercalation. Polyhedron, 2014, 81, 475-484.	1.0	15
169	Understanding the role of oxygen surface groups: The key for a smart ruthenium-based carbon-supported heterogeneous catalyst design and synthesis. Applied Catalysis A: General, 2017, 544, 66-76.	2.2	15
170	Title is missing!. Catalysis Letters, 1997, 45, 113-118.	1.4	14
171	Title is missing!. Catalysis Letters, 2003, 89, 63-67.	1.4	14
172	Effect of the reductionâ€“preparation method on the surface states and catalytic properties of supported-nickel particles. Journal of Molecular Catalysis A, 2006, 258, 221-230.	4.8	14
173	Support effects on Ruâ€“HPA bifunctional catalysts: Surface characterization and catalytic performance. Applied Catalysis A: General, 2007, 333, 281-289.	2.2	14
174	Direct catalytic effect of nitrogen functional groups exposed on graphenic materials when acting cooperatively with Ru nanoparticles. RSC Advances, 2017, 7, 44568-44577.	1.7	14
175	Continuous Gasâ€Phase Condensation of Bioethanol to 1â€Butanol over Bifunctional Pd/Mg and Pd/Mgâ€“Carbon Catalysts. ChemSusChem, 2018, 11, 3502-3511.	3.6	14
176	Improving the synthesis of high purity carbon nanotubes in a catalytic fluidized bed reactor and their comparative test for hydrogen adsorption capacity. Catalysis Today, 2008, 133-135, 815-821.	2.2	13
177	Phenol adsorption from water solutions over microporous andÂmesoporous carbon surfaces: a real time kinetic study. Adsorption, 2011, 17, 483-488.	1.4	13
178	Selective 1,3-butadiene hydrogenation by gold nanoparticles deposited & precipitated onto nano-carbon materials. RSC Advances, 2015, 5, 81583-81598.	1.7	13
179	H2/D2 isotopic exchange: A tool to characterize complex hydrogen interaction with carbon-supported ruthenium catalysts. Catalysis Today, 2016, 259, 9-18.	2.2	13
180	Optimization of Cu-Ni-Mn-catalysts for the conversion of ethanol to butanol. Catalysis Today, 2020, 357, 132-142.	2.2	13

#	Article	IF	Citations
181	Transformations of n-heptane over Pt/activated carbon catalysts. Applied Catalysis A: General, 1994, 119, 271-278.	2.2	12
182	Catalytic behaviour of carbon-supported FeM (M = Ru, Pt) in pyridine hydrodenitrogenation. Fuel, 1995, 74, 279-283.	3.4	12
183	Structural properties of alumina- and silica-supported Iridium catalysts and their behavior in the enantioselective hydrogenation of ethyl pyruvate. Applied Catalysis A: General, 2013, 451, 14-20.	2.2	12
184	Hydrocarbons adsorption on metal trimesate MOFs: Inverse gas chromatography and immersion calorimetry studies. Thermochimica Acta, 2015, 602, 36-42.	1.2	12
185	Surface properties of amphiphilic carbon nanotubes and study of their applicability as basic catalysts. RSC Advances, 2016, 6, 54293-54298.	1.7	12
186	Hydrogen Production by Formic Acid Decomposition over Ca Promoted Ni/SiO2 Catalysts: Effect of the Calcium Content. Nanomaterials, 2019, 9, 1516.	1.9	12
187	Continuous Catalytic Condensation of Ethanol into 1-Butanol: The Role of Metallic Oxides (M = MgO,) Tj ETQq1 1 0.784314 rgBT /Ov 59, 16626-16636.	1.8	12
188	Hydrogenation of CO2 on carbon-supported nickel and cobalt. Reaction Kinetics and Catalysis Letters, 1985, 29, 93-99.	0.6	11
189	A mechanistic study of the oxygen insertion into MoO3 crystals as revealed by SIMS and TPSR techniques. Journal of Catalysis, 1992, 137, 429-436.	3.1	11
190	Description of active sites on molybdenum oxide as detected by isotope exchange between C18O2 and Mo16O3. Catalysis Today, 1996, 32, 223-227.	2.2	11
191	Hydrogenation of crotonaldehyde over carbonâ€supported molybdenum nitrides. Catalysis Letters, 1998, 55, 165-168.	1.4	11
192	13C MAS-NMR study of carbon nanotubes grown by catalytic decomposition of acetylene on Feâ€"silica catalysts. Carbon, 2005, 43, 2631-2634.	5.4	11
193	Surface properties of Ru particles supported on carbon materials: A microcalorimetric study of the effects over the CO chemisorptions of residual anionic species. Thermochimica Acta, 2013, 567, 112-117.	1.2	11
194	Reductive degradation of 2,4-dichlorophenoxyacetic acid using Pd/carbon with bifunctional mechanism. Catalysis Today, 2020, 357, 361-367.	2.2	11
195	Diastereoselective hydrogenation of o-toluic acid coupled with (S)-proline and (S)-pyroglutamic acid methyl esters on ruthenium catalysts. Journal of Molecular Catalysis A, 2000, 164, 147-155.	4.8	10
196	Modifications of porous stainless steel previous to the synthesis of Pd membranes. Studies in Surface Science and Catalysis, 2010, 175, 779-783.	1.5	10
197	Fructose Transformations in Ethanol using Carbon Supported Polyoxometalate Acidic Solids for 5â€Ethoxymethylfurfural Production. ChemCatChem, 2018, 10, 3746-3753.	1.8	10
198	Comparative Study of Different Acidic Surface Structures in Solid Catalysts Applied for the Isobutene Dimerization Reaction. Nanomaterials, 2020, 10, 1235.	1.9	10

#	Article	IF	Citations
199	Metal dispersion effects on CO hydrogenatio over Ru/graphitized carbon black catalysts. Journal of the Chemical Society Chemical Communications, 1984, , 1681-1682.	2.0	9
200	Ceramic hollow fibres catalytic enhanced reactors for glycerol steam reforming. Catalysis Today, 2014, 233, 21-30.	2.2	9
201	Effect of particle size on the desorption and dissociation of CO from carbon-supported iron catalysts. Reaction Kinetics and Catalysis Letters, 1985, 28, 419-424.	0.6	8
202	Joint use of XPS and Auger techniques for the identification of chemical state of copper in spent catalysts. Surface and Interface Analysis, 1992, 19, 548-552.	0.8	8
203	Mechanistic Aspects of The Selective Oxidation of Methane to C1-Oxygenates Over MoO3/SiO2 Catalysts in A Single Catalytic Step. Studies in Surface Science and Catalysis, 1993, 75, 1131-1144.	1.5	8
204	Surface sites on carbon-supported Ru, Co and Ni nanoparticles as determined by microcalorimetry of CO adsorption. Thermochimica Acta, 2005, 434, 100-106.	1.2	8
205	Catalytic Activity and Characterization of Oxygen Mobility on Pt/Ce0.75Zr0.25O2 Catalyst by Isotopic Exchange with 18O. Chinese Journal of Catalysis, 2006, 27, 109-114.	6.9	8
206	Hydrogenation of CO and CO₂ on carbon blackâ€supported Ru catalysts. Journal of Chemical Technology and Biotechnology, 1986, 36, 67-73.	1.6	8
207	Nano-sized mesoporous carbon particles with bimodal pore system and semi-crystalline porous walls. Materials Letters, 2008, 62, 2935-2938.	1.3	8
208	Thiophene as Internal Promoter of Selectivity for the Liquid Phase Hydrogenation of Citral Over Ru/KL Catalysts. Catalysis Letters, 2009, 129, 376-382.	1.4	8
209	Effect of different promoter precursors in a model Ru-Cs/graphite system on the catalytic selectivity for Fischer-Tropsch reaction. Applied Surface Science, 2018, 447, 307-314.	3.1	8
210	Bioethanol Transformations Over Active Surface Sites Generated on Carbon Nanotubes or Carbon Nanofibers Materials. Open Catalysis Journal, 2014, 7, 1-7.	0.9	8
211	Oxidative dehydrogenation of ethane over chromia-pillared montmorillonite catalysts. Studies in Surface Science and Catalysis, 1994, 82, 103-111.	1.5	7
212	Carbothermally generated copperâ€“molybdenum carbide supported on graphite for the CO₂ hydrogenation to methanol. Catalysis Science and Technology, 2021, 11, 4051-4059.	2.1	7
213	Hydrogenation of CO2 on Fe/carbon catalysts. Reaction Kinetics and Catalysis Letters, 1986, 31, 349-354.	0.6	6
214	Hydrodesulfurization and hydrogenation activities of carbon supported bimetallic catalysts. Reaction Kinetics and Catalysis Letters, 1990, 41, 167-173.	0.6	6
215	Relationship between surface properties of PtSn-SiO2 catalysts and their catalytic performance for the CO2 and propylene reaction to yield hydroxybutanoic acid. Applied Organometallic Chemistry, 2000, 14, 783-788.	1.7	6
216	Modification of catalytic properties over carbon supported Ruâ€“Cu and Niâ€“Cu bimetallics. Applied Catalysis A: General, 2006, 303, 88-95.	2.2	6

#	Article	IF	Citations
217	Influence of modifiers on the performance of Ru-supported catalysts on the stereoselective hydrogenation of 4-acetamidophenol. Applied Surface Science, 2007, 253, 4805-4813.	3.1	6
218	Comparative study of bioethanol transformation catalyzed by Ru or Pt nanoparticles supported on KL zeolite. Catalysis Science and Technology, 2016, 6, 521-529.	2.1	6
219	Effect of Mo promotion on the activity and selectivity of Ru/Graphite catalysts for Fischer-Tropsch synthesis. Catalysis Today, 2020, 357, 185-192.	2.2	6
220	Promotion of Ru or Ni on Alumina Catalysts with a Basic Metal for CO2 Hydrogenation: Effect of the Type of Metal (Na, K, Ba). Nanomaterials, 2022, 12, 1052.	1.9	6
221	Influence of the particle size of metal in the hydrogenolysis of n-butane on carbon supported iron catalysts. Reaction Kinetics and Catalysis Letters, 1985, 27, 283-286.	0.6	5
222	Microcalorimetric and IR spectroscopic studies of CO adsorption on molybdenum nitride catalysts. Physical Chemistry Chemical Physics, 2003, 5, 1703-1707.	1.3	5
223	Taking advantage of sulfur impurities present in commercial carbon nanofibers to generate selective palladium catalysts. Carbon, 2020, 157, 120-129.	5.4	5
224	Characterization of Carbon-Supported Iron Catalysts Prepared from Fe(CO)₅. Adsorption Science and Technology, 1986, 3, 33-40.	1.5	4
225	Interaction of CO2 with ZnO Powders of Different Microcrystalline Surfaces. ACS Symposium Series, 1996, , 347-356.	0.5	4
226	Utilization of CO2 in the reforming of natural gas on carbon supported ruthenium catalysts. Influence of MgO addition. Studies in Surface Science and Catalysis, 1998, 114, 399-402.	1.5	4
227	Interactions between toluene and aniline and graphite surfaces. Carbon, 2006, 44, 3130-3133.	5.4	4
228	Structural changes on RuCu/KL bimetallic catalysts as evidenced by n-hexane reforming. Catalysis Today, 2008, 133-135, 793-799.	2.2	4
229	Dry reforming of methane over Ni/CeO2 catalysts prepared by three different methods. Green Processing and Synthesis, 2015, 4, .	1.3	4
230	Selective hydrogenation of paracetamol to acetamidocyclohexanone with silylated SiO₂ supported Pd-based catalysts. RSC Advances, 2016, 6, 41572-41579.	1.7	4
231	Effect of the metal precursor on the catalytic performance of the Ru/KL system for the ethanol transformation reactions. Applied Catalysis A: General, 2017, 535, 61-68.	2.2	4
232	Effect of surfactant concentration on the morphology of Mo_xS_y nanoparticles prepared by a solvothermal route. Green Processing and Synthesis, 2017, 6, 161-171.	1.3	4
233	Tracking the paths for the sucrose transformations over bifunctional Ru-POM/AC catalysts. Catalysis Today, 2020, 357, 113-121.	2.2	4
234	Study of the Interaction of an Iron Phthalocyanine Complex over Surface Modified Carbon Nanotubes. Materials, 2021, 14, 4067.	1.3	4

#	Article	IF	Citations
235	Clean 3,4-Dihydropyrimidones Synthesis via Biginelli Reaction over Supported Molybdenum: Structural and Textural Characteristic of Î±MoO3. Bulletin of Chemical Reaction Engineering and Catalysis, 2020, 15, 698-713.	0.5	4
236	The adsorption of N2 and CO2 on PAN carbons. Carbon, 1988, 26, 905-906.	5.4	3
237	CO hydrogenation over potassium promoted iron, cobalt, and nickel Catalysts Prepared from Cyanide Complexes. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1990, 582, 197-210.	0.6	3
238	Oxygen exchange between C18O2 and basic metal oxides (CaO, MgO, ZrO2 ZnO). Studies in Surface Science and Catalysis, 1997, 112, 277-284.	1.5	3
239	Development of Nanostructured Catalytic Membranes for Partial Benzene Hydrogenation to Cyclohexene. Journal of Nanoscience and Nanotechnology, 2007, 7, 4391-4401.	0.9	3
240	An immersion calorimetric study of the interactions between some organic molecules and functionalized carbon nanotube surfaces. Thermochimica Acta, 2013, 567, 107-111.	1.2	3
241	New Insights in the Development of Carbon Supported Ruthenium Catalysts for Hydrogenation of Levulinic Acid. Current Catalysis, 2018, 7, 129-137.	0.5	3
242	Cu-based N-doped/undoped graphene nanocomposites as electrocatalysts for the oxygen reduction. Journal of Applied Electrochemistry, 2019, 49, 693-703.	1.5	3
243	Tandem catalysts for the selective hydrogenation of butadiene with hydrogen generated from the decomposition of formic acid. Chemical Communications, 2021, 57, 6479-6482.	2.2	3
244	Effect of the Carbon Support and Conditions on the Carbothermal Synthesis of Cu-Molybdenum Carbide and Its Application on CO2 Hydrogenation to Methanol. Nanomaterials, 2022, 12, 1048.	1.9	3
245	An attempt to correlate selectivity in CO hydrogenation and morphology of iron catalysts. Catalysis Letters, 1989, 2, 273-278.	1.4	2
246	Study of the activation process and catalytic behaviour of a supported iron ammonia synthesis catalyst. Applied Surface Science, 1993, 72, 103-111.	3.1	2
247	Hydrocarbons from synthesis gas: selectivity changes induced by the zeolite matrix on the metallic function in Rh/Y catalysts. Applied Catalysis A: General, 1993, 107, 59-71.	2.2	2
248	Novel strategy for the synthesis of vertically orientated carbon nanofibers. Materials Research Bulletin, 2008, 43, 1737-1742.	2.7	2
249	Catalytic Removal of Water-Solved Aromatic Compounds by Carbon-Based Materials. , 2012, , 499-520.		2
250	Exploring the insertion of ethylenediamine and bis(3-aminopropyl)amine into graphite oxide. Nanoscience Methods, 2014, 3, 28-39.	1.0	2
251	177. The use of activated carbons as supports for platinum catalysts. Carbon, 1984, 22, 224.	5.4	1
252	Reduction of no with carbons using copper based catalysts. Coal Science and Technology, 1995, 24, 1795-1798.	0.0	1

#	Article	IF	Citations
253	Comparative determination of surface and lattice oxygen mobility on vanadium phosphorus oxides by isotopic exchange with C18O2. Studies in Surface Science and Catalysis, 2001, , 379-386.	1.5	1
254	Adsorption and microcalorimetric measurements on activated carbons prepared from Polyethylene Terephtalate. Studies in Surface Science and Catalysis, 2007, , 185-192.	1.5	1
255	Detection of specific electronic interactions at the interface aromatic hydrocarbon-graphite by immersion calorimetry. Studies in Surface Science and Catalysis, 2007, 160, 689-696.	1.5	1
256	Preparation of gold catalysts supported on SiO2-TiO2 for the CO PROX reaction. Studies in Surface Science and Catalysis, 2010, , 719-722.	1.5	1
257	Nitromethane-water competitive adsorption over modified activated carbon. Adsorption, 2011, 17, 595-602.	1.4	1
258	Building up Multiwall Carbon Nanotubes Nanostructures inside Millimetric Channels of Ceramic Monoliths. Journal of Nano Research, 2012, 18-19, 271-279.	0.8	1
259	Preparation, Characterization, and Activity of Pd/PSS-Modified Membranes in the Low Temperature Dry Reforming of Methane with and without Addition of Extra Steam. Membranes, 2021, 11, 518.	1.4	1
260	160. Changes in the adsorption capacity of Saran carbons for some hydrocarbons by gas chromatography. Carbon, 1984, 22, 222.	5.4	0
261	Surface reorganization of carbon supported cobalt catalysts during CO chemisorption. Reaction Kinetics and Catalysis Letters, 1990, 42, 113-120.	0.6	0
262	An Easy Methodology for the Incorporation of Carbon Nanotubes on Surfaces of Components Applied as Electronic Devices. Journal of Nano Research, 2012, 18-19, 157-163.	0.8	0
263	Facile solvothermal synthesis of bimetallic CoMoS2 and NiMoS2 nanospheres. Green Processing and Synthesis, 2015, 4, .	1.3	0
264	Application of New Nanoparticle Structures as Catalysts. Nanomaterials, 2020, 10, 1686.	1.9	0