

# Antonio Guerrero-Ruiz

## List of Publications by Citations

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#	Paper	IF	Citations
288	Interaction of Carbon Dioxide with the Surface of Zirconia Polymorphs. <i>Langmuir</i> , <b>1998</b> , 14, 3556-3564	4	221
287	Interaction of aqueous solutions of phenol with commercial activated carbons: an adsorption and kinetic study. <i>Carbon</i> , <b>1999</b> , 37, 1065-1074	10.4	187
286	Characterization of carbon nanotubes and carbon nanofibers prepared by catalytic decomposition of acetylene in a fluidized bed reactor. <i>Journal of Catalysis</i> , <b>2003</b> , 215, 305-316	7.3	174
285	Comparative study at low and medium reaction temperatures of syngas production by methane reforming with carbon dioxide over silica and alumina supported catalysts. <i>Applied Catalysis A: General</i> , <b>1998</b> , 170, 177-187	5.1	160
284	Mechanistic aspects of the dry reforming of methane over ruthenium catalysts. <i>Applied Catalysis A: General</i> , <b>2000</b> , 202, 183-196	5.1	153
283	Study of some factors affecting the Ru and Pt dispersions over high surface area graphite-supported catalysts. <i>Applied Catalysis A: General</i> , <b>1998</b> , 173, 313-321	5.1	137
282	The use of carbon nanotubes with and without nitrogen doping as support for ruthenium catalysts in the ammonia decomposition reaction. <i>Carbon</i> , <b>2010</b> , 48, 267-276	10.4	124
281	Platinum catalysts supported on activated carbons I. Preparation and characterization. <i>Journal of Catalysis</i> , <b>1986</b> , 99, 171-183	7.3	123
280	Methane combustion over supported palladium catalysts. <i>Applied Catalysis B: Environmental</i> , <b>2000</b> , 28, 223-233	21.8	116
279	Thermodynamic and experimental study of combined dry and steam reforming of methane on Ru/ZrO <sub>2</sub> -La <sub>2</sub> O <sub>3</sub> catalyst at low temperature. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 15212-15220	6.7	104
278	Performance of PtSn catalysts supported on MAI <sub>2</sub> O <sub>4</sub> (M: Mg or Zn) in n-butane dehydrogenation: characterization of the metallic phase. <i>Applied Catalysis A: General</i> , <b>2004</b> , 277, 11-22	5.1	100
277	Surface chemical modifications induced on high surface area graphite and carbon nanofibers using different oxidation and functionalization treatments. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 355, 179-89	9.3	95
276	Role of B5-Type Sites in Ru Catalysts used for the NH <sub>3</sub> Decomposition Reaction. <i>Topics in Catalysis</i> , <b>2009</b> , 52, 758-764	2.3	94
275	Transient studies of low-temperature dry reforming of methane over Ni-CaO/ZrO <sub>2</sub> -La <sub>2</sub> O <sub>3</sub> . <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 129, 450-459	21.8	93
274	Catalytic wet air oxidation of phenol and acrylic acid over Ru/C and RuTeO <sub>2</sub> /C catalysts. <i>Applied Catalysis B: Environmental</i> , <b>2000</b> , 25, 267-275	21.8	89
273	Growing mechanism of CNTs: a kinetic approach. <i>Journal of Catalysis</i> , <b>2004</b> , 224, 197-205	7.3	87
272	A Transient Kinetic Study of the Carbon Dioxide Reforming of Methane over Supported Ru Catalysts. <i>Journal of Catalysis</i> , <b>1999</b> , 184, 202-212	7.3	81

271	Selective Reduction of NO <sub>x</sub> with Propene under Oxidative Conditions: Nature of the Active Sites on Copper-Based Catalysts. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 2905-2914	16.4	79
270	Carbon monoxide hydrogenation over carbon supported cobalt or ruthenium catalysts. promoting effects of magnesium, vanadium and cerium oxides. <i>Applied Catalysis A: General</i> , <b>1994</b> , 120, 71-83	5.1	77
269	Palladium sulphide [A highly selective catalyst for the gas phase hydrogenation of alkynes to alkenes. <i>Journal of Catalysis</i> , <b>2016</b> , 340, 10-16	7.3	77
268	Novel electrochemical sensor based on N-doped carbon nanotubes and Fe <sub>3</sub> O <sub>4</sub> nanoparticles: simultaneous voltammetric determination of ascorbic acid, dopamine and uric acid. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 432, 207-13	9.3	76
267	High purity hydrogen production by low temperature catalytic ammonia decomposition in a multifunctional membrane reactor. <i>Catalysis Communications</i> , <b>2008</b> , 9, 482-486	3.2	76
266	Dehydrogenation of methanol to methyl formate over supported copper catalysts. <i>Applied Catalysis</i> , <b>1991</b> , 72, 119-137		76
265	Structural, Morphological, and Oxygen Handling Properties of Nanosized Cerium/Terbium Mixed Oxides Prepared by Microemulsion. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 4309-4316	9.6	75
264	Effects of the surface chemistry of carbon materials on the adsorption of phenol/aniline mixtures from water. <i>Carbon</i> , <b>2004</b> , 42, 653-665	10.4	72
263	Adsorption of emerging pollutants on functionalized multiwall carbon nanotubes. <i>Chemosphere</i> , <b>2015</b> , 136, 174-80	8.4	70
262	MnFe <sub>2</sub> O <sub>4</sub> @CNT-N as novel electrochemical nanosensor for determination of caffeine, acetaminophen and ascorbic acid. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 218, 128-136	8.5	69
261	Hydrogenation of Citral on Activated Carbon and High-Surface-Area Graphite-Supported Ruthenium Catalysts Modified with Iron. <i>Journal of Catalysis</i> , <b>2001</b> , 204, 450-459	7.3	69
260	Influence of Si/Zr ratio on the formation of surface acidity in silica-zirconia aerogels. <i>Journal of Catalysis</i> , <b>2000</b> , 192, 344-354	7.3	69
259	Adsorption of aromatic compounds from water by treated carbon materials. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 5786-96	10.3	67
258	Influence of Mg and Ce addition to ruthenium based catalysts used in the selective hydrogenation of $\alpha$ -unsaturated aldehydes. <i>Applied Catalysis A: General</i> , <b>2001</b> , 205, 227-237	5.1	63
257	Methane interaction with silica and alumina supported metal catalysts. <i>Applied Catalysis A: General</i> , <b>1997</b> , 148, 343-356	5.1	60
256	Adsorption of Polyoxyethylene Nonionic and Anionic Surfactants from Aqueous Solution: Effects Induced by the Addition of NaCl and CaCl <sub>2</sub> . <i>Journal of Colloid and Interface Science</i> , <b>1998</b> , 205, 97-105	9.3	59
255	Oxydehydrogenation of ethylbenzene to styrene catalyzed by graphites and activated carbons. <i>Carbon</i> , <b>1994</b> , 32, 23-29	10.4	58
254	Reduction of NO <sub>x</sub> in C <sub>3</sub> H <sub>6</sub> /air mixtures over Cu/Al <sub>2</sub> O <sub>3</sub> catalysts. <i>Applied Catalysis B: Environmental</i> , <b>1997</b> , 14, 189-202	21.8	51

253	Comparative study of the hydrogenolysis of glycerol over Ru-based catalysts supported on activated carbon, graphite, carbon nanotubes and KL-zeolite. <i>Chemical Engineering Journal</i> , <b>2015</b> , 262, 326-333	14.7	50
252	Role of the residual chlorides in platinum and ruthenium catalysts for the hydrogenation of $\alpha$ -unsaturated aldehydes. <i>Applied Catalysis A: General</i> , <b>2000</b> , 192, 289-297	5.1	50
251	Comparative Study of the Adsorption from Aqueous Solutions and the Desorption of Phenol and Nonylphenol Substrates on Activated Carbons. <i>Journal of Colloid and Interface Science</i> , <b>2001</b> , 234, 316-321	9.3	49
250	Ce $\gamma$ Zr $\delta$ Ca Ternary Mixed Oxides: Structural Characteristics and Oxygen Handling Properties. <i>Journal of Catalysis</i> , <b>2002</b> , 211, 326-334	7.3	49
249	Selective Deposition of Gold Nanoparticles on or Inside Carbon Nanotubes and Their Catalytic Activity for Preferential Oxidation of CO. <i>European Journal of Inorganic Chemistry</i> , <b>2010</b> , 2010, 5096-5102	2.3	48
248	Tracking Down the Reduction Behavior of Copper-on-Alumina Catalysts. <i>Journal of Catalysis</i> , <b>1998</b> , 178, 253-263	7.3	46
247	Promoter Effect of Cesium on C $\equiv$ C Bond Formation during Alcohol Synthesis from CO/H $_2$ over Cu/ZnO/Cr $_2$ O $_3$ Catalysts. <i>Journal of Catalysis</i> , <b>1996</b> , 163, 418-428	7.3	46
246	Evaluation of the Role of the Metal-Support Interfacial Centers in the Dry Reforming of Methane on Alumina-Supported Rhodium Catalysts. <i>Journal of Catalysis</i> , <b>2000</b> , 190, 296-308	7.3	45
245	Effect of the functional groups of carbon on the surface and catalytic properties of Ru/C catalysts for hydrogenolysis of glycerol. <i>Applied Surface Science</i> , <b>2013</b> , 287, 108-116	6.7	44
244	Synthesis and characterization of carbon black supported PtRu alloy as a model catalyst for fuel cells. <i>Catalysis Today</i> , <b>2004</b> , 93-95, 619-626	5.3	44
243	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. <i>Carbon</i> , <b>2017</b> , 111, 150-161	10.4	43
242	Modification of catalytic properties over carbon supported RuCu and NiCu bimetallics: I. Functional selectivities in citral and cinnamaldehyde hydrogenation. <i>Applied Catalysis A: General</i> , <b>2006</b> , 300, 120-129	5.1	43
241	Influence of the preparation method on the behaviour of Fe-Mo catalysts for the oxidation of methanol. <i>Journal of Materials Science</i> , <b>1995</b> , 30, 496-503	4.3	43
240	Removal of no over carbon-supported copper catalysts. I. Reactivity of no with graphite and activated carbon. <i>Carbon</i> , <b>1996</b> , 34, 339-346	10.4	43
239	Comparative Study by Infrared Spectroscopy and Microcalorimetry of the CO Adsorption over Supported Palladium Catalysts. <i>Langmuir</i> , <b>2000</b> , 16, 8100-8106	4	42
238	Chemoselective hydrogenation of cinnamaldehyde: A comparison of the immobilization of Ru $\pi$ -phosphine complex on graphite oxide and on graphitic surfaces. <i>Journal of Catalysis</i> , <b>2011</b> , 282, 299-309	7.3	41
237	Further insights into the Ru nanoparticles-carbon interactions and their role in the catalytic properties. <i>Carbon</i> , <b>2005</b> , 43, 2711-2722	10.4	41
236	Selective hydrogenation of mixed alkyne/alkene streams at elevated pressure over a palladium sulfide catalyst. <i>Journal of Catalysis</i> , <b>2017</b> , 355, 40-52	7.3	40

235	Modifications of the citral hydrogenation selectivities over Ru/KL-zeolite catalysts induced by the metal precursors. <i>Catalysis Today</i> , <b>2005</b> , 107-108, 302-309	5.3	40
234	Dehydrogenation of methanol to methyl formate over copper-containing perovskite-type oxides. <i>Applied Catalysis</i> , <b>1991</b> , 68, 217-228		40
233	Porous carbon as support for iron and ruthenium catalysts. <i>Fuel</i> , <b>1984</b> , 63, 1089-1094	7.1	40
232	On the applicability of membrane technology to the catalysed dry reforming of methane. <i>Applied Catalysis A: General</i> , <b>2002</b> , 237, 239-252	5.1	39
231	Reactions of propene on supported molybdenum and tungsten oxides. <i>Journal of Molecular Catalysis A</i> , <b>1995</b> , 95, 147-154		38
230	Adsorption of Polyoxyethylenic Surfactants on Quartz, Kaolin, and Dolomite: A Correlation between Surfactant Structure and Solid Surface Nature. <i>Journal of Colloid and Interface Science</i> , <b>1996</b> , 181, 571-580	9.3	38
229	Catalytic and redox properties of bimetallic CuNi systems combined with CeO <sub>2</sub> or Gd-doped CeO <sub>2</sub> for methane oxidation and decomposition. <i>Applied Catalysis B: Environmental</i> , <b>2012</b> , 111-112, 96-105	21.8	36
228	The role of alpha-iron and cementite phases in the growing mechanism of carbon nanotubes: a <sup>57</sup> Fe Mössbauer spectroscopy study. <i>Physical Chemistry Chemical Physics</i> , <b>2006</b> , 8, 1230-5	3.6	36
227	Effect of the metal precursor on the surface site distribution of Al <sub>2</sub> O <sub>3</sub> -supported Ru catalysts: catalytic effects on the n-butane/H <sub>2</sub> test. <i>Applied Catalysis A: General</i> , <b>2005</b> , 283, 23-32	5.1	35
226	Selective catalytic reduction of NO with NH <sub>3</sub> over Cr-ZSM-5 catalysts: General characterization and catalysts screening. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 134-135, 367-380	21.8	34
225	Dry reforming of methane using Pd-based membrane reactors fabricated from different substrates. <i>Journal of Membrane Science</i> , <b>2013</b> , 435, 218-225	9.6	34
224	Carbon nanostructured materials as direct catalysts for phenol oxidation in aqueous phase. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 104, 101-109	21.8	34
223	Isotopic tracing experiments in syngas production from methane on Ru/Al <sub>2</sub> O <sub>3</sub> and Ru/SiO <sub>2</sub> . <i>Catalysis Today</i> , <b>1998</b> , 46, 99-105	5.3	33
222	Ruthenium-supported catalysts for the stereoselective hydrogenation of paracetamol to 4-acetamidocyclohexanol: effect of support, metal precursor, and solvent. <i>Journal of Catalysis</i> , <b>2005</b> , 229, 439-445	7.3	33
221	Preparation of nitrogen-containing carbon nanotubes and study of their performance as basic catalysts. <i>Applied Catalysis A: General</i> , <b>2013</b> , 458, 155-161	5.1	32
220	Adsorption of non-ionic surfactants on hydrophobic and hydrophilic carbon surfaces. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 343, 194-9	9.3	32
219	On the Performance of Porous Vycor Membranes for Conversion Enhancement in the Dehydrogenation of Methylcyclohexane to Toluene. <i>Journal of Catalysis</i> , <b>2002</b> , 212, 182-192	7.3	32
218	Bioethanol dehydrogenation over copper supported on functionalized graphene materials and a high surface area graphite. <i>Carbon</i> , <b>2016</b> , 102, 426-436	10.4	31

217	Design of surface sites for the selective hydrogenation of 1,3-butadiene on Pd nanoparticles: Cu bimetallic formation and sulfur poisoning. <i>Catalysis Science and Technology</i> , <b>2014</b> , 4, 1446-1455	5.5	31
216	TAP studies of ammonia decomposition over Ru and Ir catalysts. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 12892-9	3.6	31
215	The promoter effect of potassium in CuO/CeO <sub>2</sub> systems supported on carbon nanotubes and graphene for the CO-PROX reaction. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 6118-6127	5.5	31
214	Cooperative action of heteropolyacids and carbon supported Ru catalysts for the conversion of cellulose. <i>Catalysis Today</i> , <b>2018</b> , 301, 65-71	5.3	30
213	Optimization of ruthenium based catalysts for the aqueous phase hydrogenation of furfural to furfuryl alcohol. <i>Applied Catalysis A: General</i> , <b>2018</b> , 563, 177-184	5.1	30
212	Effect of the chromium precursor nature on the physicochemical and catalytic properties of Cr $\gamma$ SM-5 catalysts: Application to the ammoxidation of ethylene. <i>Journal of Molecular Catalysis A</i> , <b>2011</b> , 339, 8-16		30
211	The role of nitrogen and oxygen surface groups in the behavior of carbon-supported iron and ruthenium catalysts. <i>Carbon</i> , <b>1988</b> , 26, 417-423	10.4	30
210	Detecting the Genesis of a High-Performance Carbon-Supported Pd Sulfide Nanophase and Its Evolution in the Hydrogenation of Butadiene. <i>ACS Catalysis</i> , <b>2015</b> , 5, 5235-5241	13.1	29
209	Efficient and stable NiTe glycerol reforming catalysts: Chemical imaging using X-ray electron and scanning transmission microscopy. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 165, 139-148	21.8	29
208	Cooperative action of cobalt and MgO for the catalysed reforming of CH <sub>4</sub> with CO <sub>2</sub> . <i>Catalysis Today</i> , <b>1994</b> , 21, 545-550	5.3	29
207	Sulfur-resistant carbon-supported iridium catalysts: Cyclohexane dehydrogenation and benzene hydrogenation. <i>Journal of Catalysis</i> , <b>1992</b> , 135, 458-466	7.3	29
206	Spectroscopic studies of surface copper spinels. Influence of pretreatments on chemical state of copper. <i>Surface and Interface Analysis</i> , <b>1993</b> , 20, 1067-1074	1.5	29
205	Platinum catalysts supported on activated carbons II. Isomerization and hydrogenolysis of n-butane. <i>Journal of Catalysis</i> , <b>1987</b> , 107, 1-7	7.3	29
204	Influence of the nature of support on Ru-supported catalysts for selective hydrogenation of citral. <i>Chemical Engineering Journal</i> , <b>2012</b> , 204-206, 169-178	14.7	28
203	Surface Properties of Supported Metallic Clusters as Determined by Microcalorimetry of CO Chemisorption. <i>Topics in Catalysis</i> , <b>2002</b> , 19, 303-311	2.3	28
202	Removal of NO over carbon supported copper catalysts: II. Evaluation of catalytic properties under different reaction conditions. <i>Carbon</i> , <b>1996</b> , 34, 1509-1514	10.4	28
201	Efficient hydrogen production from glycerol by steam reforming with carbon supported ruthenium catalysts. <i>Carbon</i> , <b>2016</b> , 96, 578-587	10.4	27
200	Comparative study of three heteropolyacids supported on carbon materials as catalysts for ethylene production from bioethanol. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 1892-1901	5.5	27

199	Characterization and Catalytic Performance of PtSn Catalysts Supported on Al <sub>2</sub> O <sub>3</sub> and Na-doped Al <sub>2</sub> O <sub>3</sub> in n-butane Dehydrogenation. <i>Catalysis Letters</i> , <b>2007</b> , 119, 5-15	2.8	27
198	Polyoxotungstate@Carbon Nanocomposites As Oxygen Reduction Reaction (ORR) Electrocatalysts. <i>Langmuir</i> , <b>2018</b> , 34, 6376-6387	4	27
197	Characteristics of the metallic phase of Pt/Al <sub>2</sub> O <sub>3</sub> and Na-doped Pt/Al <sub>2</sub> O <sub>3</sub> catalysts for light paraffins dehydrogenation. <i>Chemical Engineering Journal</i> , <b>2006</b> , 118, 161-166	14.7	26
196	Specific interactions between aromatic electrons of organic compounds and graphite surfaces as detected by immersion calorimetry. <i>Langmuir</i> , <b>2004</b> , 20, 1013-5	4	26
195	Bifunctional pathways in the carbon dioxide reforming of methane over MgO-promoted Ru/C catalysts. <i>Catalysis Letters</i> , <b>2000</b> , 66, 33-37	2.8	26
194	Carbon supported bimetallic catalysts containing iron: I. Preparation and characterization. <i>Applied Catalysis A: General</i> , <b>1992</b> , 81, 81-100	5.1	26
193	High nitrogen doped graphenes and their applicability as basic catalysts. <i>Diamond and Related Materials</i> , <b>2014</b> , 44, 26-32	3.5	25
192	Hydrogen adsorbed species at the metal/support interface on a Pt/Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1997</b> , 93, 3563-3567		25
191	On the interactions of phenol, aniline and p-nitrophenol on activated carbon surfaces as detected by TPD. <i>Carbon</i> , <b>2008</b> , 46, 870-875	10.4	25
190	Study of CO chemisorption on graphite-supported RuRu and NiRu bimetallic catalysts. <i>Thermochimica Acta</i> , <b>2005</b> , 434, 113-118	2.9	25
189	Oxidative dehydrogenation of isobutane over magnesium molybdate catalysts. <i>Catalysis Today</i> , <b>2000</b> , 61, 377-382	5.3	25
188	Nature Of Surface Sites In The Selective Oxide Hydrogenation Of Propane Over V-Mg-O Catalysts. <i>Studies in Surface Science and Catalysis</i> , <b>1992</b> , 203-212	1.8	25
187	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. <i>Catalysis Today</i> , <b>2015</b> , 249, 63-71	5.3	24
186	Comparative study of support effects in ruthenium catalysts applied for wet air oxidation of aromatic compounds. <i>Catalysis Today</i> , <b>2009</b> , 143, 355-363	5.3	24
185	Mechanism of hydrogen spillover over carbon supported metal catalysts. <i>Studies in Surface Science and Catalysis</i> , <b>1997</b> , 112, 241-250	1.8	24
184	Modification of the stereoselectivity in the citral hydrogenation by application of carbon nanotubes as support of the Pt particles. <i>Carbon</i> , <b>2006</b> , 44, 804-806	10.4	24
183	Pure hydrogen production from methylcyclohexane using a new high performance membrane reactor. <i>Chemical Communications</i> , <b>2002</b> , 2082-3	5.8	24
182	In situ study of carbon nanotube formation by C <sub>2</sub> H <sub>2</sub> decomposition on an iron-based catalyst. <i>Carbon</i> , <b>2000</b> , 38, 2003-2006	10.4	24

- 181 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 24
- 180 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 6.7 24
- 179 Effect of the carbon support nano-structures on the performance of Ru catalysts in the hydrogenation of paracetamol. *Carbon*, **2008**, 46, 1046-1052 10.4 23
- 178 Syntheses of CNTs over several iron-supported catalysts: influence of the metallic precursors. *Catalysis Today*, **2004**, 93-95, 681-687 5.3 23
- 177 Carbon-supported bimetallic catalysts containing iron: II. Catalytic behaviour in benzene hydrogenation and thiophene hydrodesulphurization. *Applied Catalysis A: General*, **1992**, 81, 101-112 5.1 23
- 176 Adsorption capacity of Saran carbons at high temperatures and under dynamic conditions. *Carbon*, **1984**, 22, 301-304 10.4 23
- 175 Hydrogenation of CO on carbon-supported iron catalysts prepared from iron penta-carbonyl. *Applied Catalysis*, **1986**, 21, 251-261 23
- 174 Efficient catalytic wet oxidation of phenol using iron acetylacetonate complexes anchored on carbon nanofibres. *Carbon*, **2009**, 47, 2095-2102 10.4 22
- 173 Ammoxidation of ethylene over low and over-exchanged Cr/ZSM-5 catalysts. *Applied Catalysis A: General*, **2012**, 415-416, 132-140 5.1 21
- 172 Catalytic activity of gold supported on ZnO tetrapods for the preferential oxidation of carbon monoxide under hydrogen rich conditions. *Nanoscale*, **2011**, 3, 929-32 7.7 21
- 171 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 5.1 21
- 170 Surface study of graphite-supported Ru<sub>10</sub> and Ru<sub>1</sub>Ni bimetallic catalysts. *Applied Catalysis A: General*, **2004**, 275, 257-269 5.1 21
- 169 Simultaneous hydrodesulfurization of thiophene and hydrogenation of cyclohexene over dimolybdenum nitride catalysts. *Applied Catalysis A: General*, **1999**, 180, 237-245 5.1 21
- 168 The effect of inorganic constituents of the support on the characteristics of carbon-supported platinum catalysts. *Applied Catalysis*, **1985**, 15, 293-300 21
- 167 Effect of electrolytes nature and concentration on the morphology and structure of MoS<sub>2</sub> nanomaterials prepared using one-pot solvothermal method. *Applied Surface Science*, **2014**, 307, 319-326 6.7 20
- 166 Influence of the parent zeolite structure on chromium speciation and catalytic properties of Cr-zeolite catalysts in the ethylene ammoxidation. *Applied Catalysis A: General*, **2012**, 439-440, 88-100 5.1 20
- 165 Deposition of gold nanoparticles on ZnO and their catalytic activity for hydrogenation applications. *Catalysis Communications*, **2012**, 22, 79-82 3.2 20
- 164 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 5.1 20



163	Selective hydrogenation of citral over Pt/KL type catalysts doped with Sr, La, Nd and Sm. <i>Applied Catalysis A: General</i> , <b>2011</b> , 401, 56-64	5.1	20
162	Catalytic properties of carbon-supported ruthenium catalysts for n-hexane conversion. <i>Applied Catalysis A: General</i> , <b>1998</b> , 173, 231-238	5.1	20
161	Surface and structural effects in the hydrogenation of citral over RuCu/KL catalysts. <i>Microporous and Mesoporous Materials</i> , <b>2006</b> , 97, 122-131	5.3	20
160	Genesis of Surface and Bulk Phases in Rhodium-Copper Catalysts. <i>Langmuir</i> , <b>1999</b> , 15, 5295-5302	4	20
159	Surface Characterization of Zirconia-Coated Alumina and Silica Carriers. <i>Journal of Colloid and Interface Science</i> , <b>1993</b> , 159, 454-459	9.3	20
158	Structural and surface modifications of carbon nanotubes when submitted to high temperature annealing treatments. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 536, S460-S463	5.7	19
157	The effect of growth temperature and iron precursor on the synthesis of high purity carbon nanotubes. <i>Diamond and Related Materials</i> , <b>2007</b> , 16, 542-549	3.5	19
156	Stereoselective hydrogenation of Paracetamol to trans-4-acetamidocyclohexanol on carbon-supported Ru?M (M = Co, Ni) bimetallic catalysts. <i>Catalysis Today</i> , <b>2004</b> , 93-95, 395-403	5.3	19
155	Catalytic activity of layered H(tin or zirconium) phosphates and chromia-pillared derivatives for isopropyl alcohol decomposition. <i>Applied Catalysis A: General</i> , <b>1992</b> , 92, 81-92	5.1	19
154	High efficiency of the cylindrical mesopores of MWCNTs for the catalytic wet peroxide oxidation of C.I. Reactive Red 241 dissolved in water. <i>Applied Catalysis B: Environmental</i> , <b>2012</b> , 121-122, 182-189	21.8	18
153	Preparation, Characterization, and Activity for n-Hexane Reactions of Alumina-Supported Rhodium-Copper Catalysts. <i>Journal of Catalysis</i> , <b>1997</b> , 171, 374-382	7.3	18
152	A study of carbon nanotube formation by C <sub>2</sub> H <sub>2</sub> decomposition on an iron based catalyst using a pulsed method. <i>Carbon</i> , <b>2003</b> , 41, 2509-2517	10.4	18
151	Decomposition of NO on Cu-loaded zeolites. <i>Catalysis Today</i> , <b>1993</b> , 17, 167-174	5.3	18
150	Hydrogenolysis of n-butane and hydrogenation of carbon monoxide on Ni and Co catalysts supported on carbon carbons. <i>Applied Catalysis</i> , <b>1985</b> , 14, 159-172		18
149	Time-Resolved XAS Investigation of the Local Environment and Evolution of Oxidation States of a Fischer-Tropsch Ru/C Catalyst. <i>ACS Catalysis</i> , <b>2016</b> , 6, 1437-1445	13.1	17
148	An immersion calorimetry study of the interaction of organic compounds with carbon nanotube surfaces. <i>Carbon</i> , <b>2012</b> , 50, 2731-2740	10.4	17
147	Catalytic steam reforming of methane under conditions of applicability with Pd membranes over supported Ru catalysts. <i>Catalysis Today</i> , <b>2011</b> , 171, 126-131	5.3	17
146	Effects of functionalized carbon nanotubes in peroxide crosslinking of diene elastomers. <i>European Polymer Journal</i> , <b>2009</b> , 45, 1017-1023	5.2	17

145	CeZrO Ternary Mixed Oxides: Structural Characteristics and Oxygen Handling Properties. <i>Journal of Catalysis</i> , <b>2002</b> , 211, 326-334	7.3	17
144	Microcalorimetric Study of H <sub>2</sub> Adsorption on Molybdenum Nitride Catalysts. <i>Langmuir</i> , <b>1999</b> , 15, 4927-4929	4.2	17
143	Interaction of triton X-100 on silica: A relationship between surface characteristics and adsorption isotherms. <i>Journal of Chemical Technology and Biotechnology</i> , <b>1995</b> , 63, 249-256	3.5	17
142	Promoter effect of alkalis on CuO/CeO <sub>2</sub> /carbon nanotubes systems for the PROx reaction. <i>Catalysis Today</i> , <b>2018</b> , 301, 141-146	5.3	16
141	Multifunctional mixed valence N-doped CNT@MFeO hybrid nanomaterials: from engineered one-pot coprecipitation to application in energy storage paper supercapacitors. <i>Nanoscale</i> , <b>2018</b> , 10, 12820-12840	7.7	16
140	Direct sulfation of a Zr-based metal-organic framework to attain strong acid catalysts. <i>Microporous and Mesoporous Materials</i> , <b>2019</b> , 290, 109686	5.3	16
139	Correlation between metal oxidation state and catalytic activity: hydrogenation of crotonaldehyde over Rh catalysts. <i>Catalysis Letters</i> , <b>1997</b> , 49, 163-167	2.8	16
138	Surface properties of activated carbons in relation to their ability to adsorb nonylphenol aqueous contaminant. <i>Physical Chemistry Chemical Physics</i> , <b>2001</b> , 3, 463-468	3.6	16
137	Naturally-Occurring Silicates as Carriers for Copper Catalysts used in Methanol Conversion. <i>Clays and Clay Minerals</i> , <b>1992</b> , 40, 167-174	2.1	16
136	Effect of oxide promoters on the surface characteristics of carbon-supported Co and Ru catalysts. <i>Applied Surface Science</i> , <b>1989</b> , 40, 239-247	6.7	16
135	Ammoxidation of C <sub>2</sub> hydrocarbons over Mo/zeolite catalysts prepared by solid-state ion exchange: Nature of molybdenum species. <i>Microporous and Mesoporous Materials</i> , <b>2016</b> , 219, 77-86	5.3	15
134	Comparative study of Cu, Ag and Ag-Cu catalysts over graphite in the ethanol dehydrogenation reaction: Catalytic activity, deactivation and regeneration. <i>Applied Catalysis A: General</i> , <b>2019</b> , 576, 54-64	5.1	15
133	Effect of surface, structural and textural properties of graphenic materials over cooperative and synergetic adsorptions of two chloroaromatic compounds from aqueous solution. <i>Catalysis Today</i> , <b>2018</b> , 301, 104-111	5.3	15
132	When the nature of surface functionalities on modified carbon dominates the dispersion of palladium hydrogenation catalysts. <i>Catalysis Today</i> , <b>2018</b> , 301, 248-257	5.3	15
131	Following the Evolution of Ru/Activated Carbon Catalysts during the Decomposition/Reduction of the Ru(NO)(NO <sub>3</sub> ) <sub>3</sub> Precursor. <i>ChemCatChem</i> , <b>2013</b> , 5, 2446-2452	5.2	15
130	Selective 1,3-butadiene hydrogenation by gold nanoparticles on novel nano-carbon materials. <i>Catalysis Today</i> , <b>2015</b> , 249, 117-126	5.3	15
129	Infiltrated glassy carbon membranes in Al <sub>2</sub> O <sub>3</sub> supports. <i>Journal of Membrane Science</i> , <b>2006</b> , 281, 500-507	3.6	15
128	Surface study of rhodium nanoparticles supported on alumina. <i>Catalysis Today</i> , <b>2004</b> , 93-95, 567-574	5.3	15

127	Effect of the basic function in Co, MgO/C catalysts on the selective oxidation of methane by carbon dioxide. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1993</b> , 487-488		15
126	Role of Exposed Surfaces on Zinc Oxide Nanostructures in the Catalytic Ethanol Transformation. <i>ChemSusChem</i> , <b>2015</b> , 8, 2223-30	8.3	14
125	Graphite oxide as support for the immobilization of Ru-BINAP: Application in the enantioselective hydrogenation of methylacetoacetate. <i>Catalysis Communications</i> , <b>2012</b> , 26, 149-154	3.2	14
124	Changes of copper location in CuY zeolites induced by preparation methods. <i>Catalysis Letters</i> , <b>1996</b> , 41, 55-61	2.8	14
123	Upgrading the Properties of Reduced Graphene Oxide and Nitrogen-Doped Reduced Graphene Oxide Produced by Thermal Reduction toward Efficient ORR Electrocatalysts. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	14
122	Support effects on RuBPA bifunctional catalysts: Surface characterization and catalytic performance. <i>Applied Catalysis A: General</i> , <b>2007</b> , 333, 281-289	5.1	13
121	Changes in the selective hydrogenation of citral induced by copper addition to Ru/KL catalysts. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 110, 186-196	5.3	13
120	Determination of the surface states of metallic clusters supported on alumina using microcalorimetry of CO adsorption. <i>Thermochimica Acta</i> , <b>2001</b> , 379, 195-199	2.9	13
119	Calorimetric study of the coadsorption of hydrogen and carbon monoxide over ruthenium graphitized carbon black catalysts. <i>Applied Catalysis</i> , <b>1989</b> , 55, 21-31		13
118	Effect of hydrogen reduction on the surface characteristics of carbon-supported iron and ruthenium catalysts. <i>Applied Catalysis</i> , <b>1986</b> , 23, 299-307		13
117	Ru nanoparticles supported on N-doped reduced graphene oxide as valuable catalyst for the selective aerobic oxidation of benzyl alcohol. <i>Catalysis Today</i> , <b>2020</b> , 357, 8-14	5.3	13
116	Light hydrocarbons ammoxidation into acetonitrile over Mo $\gamma$ SM-5 catalysts: Effect of molybdenum precursor. <i>Microporous and Mesoporous Materials</i> , <b>2017</b> , 241, 246-257	5.3	12
115	Selective 1,3-butadiene hydrogenation by gold nanoparticles deposited & precipitated onto nano-carbon materials. <i>RSC Advances</i> , <b>2015</b> , 5, 81583-81598	3.7	12
114	Effects of the reduction temperature over ex-chloride Ru Fischer-Tropsch catalysts supported on high surface area graphite and promoted by potassium. <i>Applied Catalysis A: General</i> , <b>2014</b> , 480, 86-92	5.1	12
113	Microwave-assisted silylation of graphite oxide and iron(III) porphyrin intercalation. <i>Polyhedron</i> , <b>2014</b> , 81, 475-484	2.7	12
112	PMo11V@N-CNT electrochemical properties and its application as electrochemical sensor for determination of acetaminophen. <i>Journal of Solid State Electrochemistry</i> , <b>2017</b> , 21, 1059-1068	2.6	12
111	Kinetic analysis of the Ru/SiO <sub>2</sub> -catalyzed low temperature methane steam reforming. <i>Applied Catalysis A: General</i> , <b>2012</b> , 413-414, 366-374	5.1	12
110	Cr $\gamma$ SM-5 catalysts for ethylene ammoxidation: Effects of precursor nature and Cr/Al molar ratio on the physicochemical and catalytic properties. <i>Microporous and Mesoporous Materials</i> , <b>2013</b> , 171, 166-178	5.3	12

109	Improving the synthesis of high purity carbon nanotubes in a catalytic fluidized bed reactor and their comparative test for hydrogen adsorption capacity. <i>Catalysis Today</i> , <b>2008</b> , 133-135, 815-821	5.3	12
108	Designing New High Oxygen Mobility Supports to Improve the Stability of Ru Catalysts Under Dry Reforming of Methane. <i>Catalysis Letters</i> , <b>2003</b> , 89, 63-67	2.8	12
107	Oxygen handling properties of Ce-Ca mixed oxides solutions. <i>Studies in Surface Science and Catalysis</i> , <b>2001</b> , 347-354	1.8	12
106	FTIR study of CO and NO adsorbed on nitrated CoMo/Al <sub>2</sub> O <sub>3</sub> catalysts. <i>Physical Chemistry Chemical Physics</i> , <b>2000</b> , 2, 3313-3317	3.6	12
105	Comparison of Pd and Pd <sub>4</sub> S based catalysts for partial hydrogenation of external and internal butynes. <i>Journal of Catalysis</i> , <b>2020</b> , 383, 51-59	7.3	11
104	Structural properties of alumina- and silica-supported Iridium catalysts and their behavior in the enantioselective hydrogenation of ethyl pyruvate. <i>Applied Catalysis A: General</i> , <b>2013</b> , 451, 14-20	5.1	11
103	Surface properties of Ru particles supported on carbon materials: A microcalorimetric study of the effects over the CO chemisorptions of residual anionic species. <i>Thermochimica Acta</i> , <b>2013</b> , 567, 112-117	2.9	11
102	Direct catalytic effect of nitrogen functional groups exposed on graphenic materials when acting cooperatively with Ru nanoparticles. <i>RSC Advances</i> , <b>2017</b> , 7, 44568-44577	3.7	11
101	Study of surface and lattice oxygen atoms over magnesium vanadate phases by isotopic exchange with C <sup>18</sup> O <sub>2</sub> . <i>Catalysis Letters</i> , <b>1997</b> , 45, 113-118	2.8	11
100	Effect of the reduction preparation method on the surface states and catalytic properties of supported-nickel particles. <i>Journal of Molecular Catalysis A</i> , <b>2006</b> , 258, 221-230		11
99	Influence of dispersion on the energies of adsorption: H <sub>2</sub> , CO, propylene and propyne on supported Pd or Pt. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , <b>1989</b> , 12, 583-586		11
98	Hydrogenation of CO <sub>2</sub> on carbon-supported nickel and cobalt. <i>Reaction Kinetics and Catalysis Letters</i> , <b>1985</b> , 29, 93-99		11
97	Selective hydrogen production from formic acid decomposition over Mo carbides supported on carbon materials. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 6790-6799	5.5	11
96	Cu and Pd nanoparticles supported on a graphitic carbon material as bifunctional HER/ORR electrocatalysts. <i>Catalysis Today</i> , <b>2020</b> , 357, 279-290	5.3	11
95	H <sub>2</sub> /D <sub>2</sub> isotopic exchange: A tool to characterize complex hydrogen interaction with carbon-supported ruthenium catalysts. <i>Catalysis Today</i> , <b>2016</b> , 259, 9-18	5.3	10
94	Continuous Gas-Phase Condensation of Bioethanol to 1-Butanol over Bifunctional Pd/Mg and Pd/Mg-Carbon Catalysts. <i>ChemSusChem</i> , <b>2018</b> , 11, 3502-3511	8.3	10
93	Phenol adsorption from water solutions over microporous and mesoporous carbon surfaces: a real time kinetic study. <i>Adsorption</i> , <b>2011</b> , 17, 483-488	2.6	10
92	Hydrogenation of crotonaldehyde over carbon-supported molybdenum nitrides. <i>Catalysis Letters</i> , <b>1998</b> , 55, 165-168	2.8	10

91	<sup>13</sup> C MAS-NMR study of carbon nanotubes grown by catalytic decomposition of acetylene on Fe <sub>3</sub> O <sub>4</sub> catalysts. <i>Carbon</i> , <b>2005</b> , 43, 2631-2634	10.4	10
90	Description of active sites on molybdenum oxide as detected by isotope exchange between C <sup>18</sup> O <sub>2</sub> and Mo <sup>16</sup> O <sub>3</sub> . <i>Catalysis Today</i> , <b>1996</b> , 32, 223-227	5.3	10
89	Transformations of n-heptane over Pt/activated carbon catalysts. <i>Applied Catalysis A: General</i> , <b>1994</b> , 119, 271-278	5.1	10
88	Hydrocarbons adsorption on metal trimesate MOFs: Inverse gas chromatography and immersion calorimetry studies. <i>Thermochimica Acta</i> , <b>2015</b> , 602, 36-42	2.9	9
87	Surface properties of amphiphilic carbon nanotubes and study of their applicability as basic catalysts. <i>RSC Advances</i> , <b>2016</b> , 6, 54293-54298	3.7	9
86	Ceramic hollow fibres catalytic enhanced reactors for glycerol steam reforming. <i>Catalysis Today</i> , <b>2014</b> , 233, 21-30	5.3	9
85	Preparation and surface functionalization of MWCNTs: study of the composite materials produced by the interaction with an iron phthalocyanine complex. <i>Nanoscale Research Letters</i> , <b>2011</b> , 6, 353	5	9
84	Temperature dependence of the pseudomorphic transformation of MoO <sub>3</sub> TO FeMo <sub>2</sub> N. <i>Materials Research Bulletin</i> , <b>1999</b> , 34, 145-156	5.1	9
83	Catalytic behaviour of carbon-supported FeM (M = Ru, Pt) in pyridine hydrodenitrogenation. <i>Fuel</i> , <b>1995</b> , 74, 279-283	7.1	9
82	Metal dispersion effects on CO hydrogenation over Ru/graphitized carbon black catalysts. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1984</b> , 1681-1682		9
81	Solid-state ion exchange of molybdenum (VI) acetylacetonate into ZSM-5 zeolite. <i>Thermochimica Acta</i> , <b>2017</b> , 652, 150-159	2.9	8
80	Understanding the role of oxygen surface groups: The key for a smart ruthenium-based carbon-supported heterogeneous catalyst design and synthesis. <i>Applied Catalysis A: General</i> , <b>2017</b> , 544, 66-76	5.1	8
79	Thiophene as Internal Promoter of Selectivity for the Liquid Phase Hydrogenation of Citral Over Ru/KL Catalysts. <i>Catalysis Letters</i> , <b>2009</b> , 129, 376-382	2.8	8
78	Low solvothermal synthesis and characterization of hollow nanospheres molybdenum sulfide. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 6679-85	1.3	8
77	Hydrogenation of CO and CO <sub>2</sub> on carbon black-supported Ru catalysts. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2007</b> , 36, 67-73	3.5	8
76	Diastereoselective hydrogenation of o-toluic acid coupled with (S)-proline and (S)-pyroglutamic acid methyl esters on ruthenium catalysts. <i>Journal of Molecular Catalysis A</i> , <b>2000</b> , 164, 147-155		8
75	Mechanistic Aspects of The Selective Oxidation of Methane to C <sub>1</sub> -Oxygenates Over MoO <sub>3</sub> /SiO <sub>2</sub> Catalysts in A Single Catalytic Step. <i>Studies in Surface Science and Catalysis</i> , <b>1993</b> , 75, 1131-1144	1.8	8
74	A mechanistic study of the oxygen insertion into MoO <sub>3</sub> crystals as revealed by SIMS and TPSR techniques. <i>Journal of Catalysis</i> , <b>1992</b> , 137, 429-436	7.3	8

73	Bioethanol Transformations Over Active Surface Sites Generated on Carbon Nanotubes or Carbon Nanofibers Materials. <i>Open Catalysis Journal</i> , <b>2014</b> , 7, 1-7		8
72	Comparative Study of Different Acidic Surface Structures in Solid Catalysts Applied for the Isobutene Dimerization Reaction. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	8
71	Tunable selectivity of Ni catalysts in the hydrogenation reaction of 5-hydroxymethylfurfural in aqueous media: Role of the carbon supports. <i>Carbon</i> , <b>2021</b> , 182, 265-275	10.4	8
70	Difference in the deactivation of Au catalysts during ethanol transformation when supported on ZnO and on TiO <sub>2</sub> . <i>RSC Advances</i> , <b>2018</b> , 8, 7473-7485	3.7	7
69	Ammoxidation of ethylene to acetonitrile over vanadium and molybdenum supported zeolite catalysts prepared by solid-state ion exchange. <i>Journal of Molecular Catalysis A</i> , <b>2016</b> , 416, 127-139		7
68	Modifications of porous stainless steel previous to the synthesis of Pd membranes. <i>Studies in Surface Science and Catalysis</i> , <b>2010</b> , 175, 779-783	1.8	7
67	Catalytic Activity and Characterization of Oxygen Mobility on Pt/Ce <sub>0.75</sub> Zr <sub>0.25</sub> O <sub>2</sub> Catalyst by Isotopic Exchange with <sup>18</sup> O. <i>Chinese Journal of Catalysis</i> , <b>2006</b> , 27, 109-114	11.3	7
66	Surface sites on carbon-supported Ru, Co and Ni nanoparticles as determined by microcalorimetry of CO adsorption. <i>Thermochimica Acta</i> , <b>2005</b> , 434, 100-106	2.9	7
65	Effect of Cu and Cs in the [Mo <sub>2</sub> C] System for CO <sub>2</sub> Hydrogenation to Methanol. <i>Catalysts</i> , <b>2020</b> , 10, 1213	4	7
64	Continuous Catalytic Condensation of Ethanol into 1-Butanol: The Role of Metallic Oxides (M = MgO, BaO, ZnO, and MnO) in Cu-M/Graphite Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 16626-16636	3.9	7
63	Fructose Transformations in Ethanol using Carbon Supported Polyoxometalate Acidic Solids for 5-Ethoxymethylfurfural Production. <i>ChemCatChem</i> , <b>2018</b> , 10, 3746-3753	5.2	7
62	MgAl <sub>2</sub> O <sub>4</sub> spinel prepared by mechanochemical synthesis used as a support of multimetallic catalysts for paraffin dehydrogenation. <i>Catalysis in Industry</i> , <b>2013</b> , 5, 61-73	0.8	6
61	Influence of modifiers on the performance of Ru-supported catalysts on the stereoselective hydrogenation of 4-acetamidophenol. <i>Applied Surface Science</i> , <b>2007</b> , 253, 4805-4813	6.7	6
60	Modification of catalytic properties over carbon supported Ru <sub>2</sub> Cu and Ni <sub>2</sub> Cu bimetallics: II. Paracetamol hydrogenation and n-hexane conversion. <i>Applied Catalysis A: General</i> , <b>2006</b> , 303, 88-95	5.1	6
59	Pretreatment effects and NO <sub>x</sub> decomposition on alumina supported Rh/MoO <sub>3</sub> catalysts. <i>Topics in Catalysis</i> , <b>1994</b> , 1, 123-136	2.3	6
58	Joint use of XPS and Auger techniques for the identification of chemical state of copper in spent catalysts. <i>Surface and Interface Analysis</i> , <b>1992</b> , 19, 548-552	1.5	6
57	Optimization of Cu-Ni-Mn-catalysts for the conversion of ethanol to butanol. <i>Catalysis Today</i> , <b>2020</b> , 357, 132-142	5.3	6
56	Comparative study of bioethanol transformation catalyzed by Ru or Pt nanoparticles supported on KL zeolite. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 521-529	5.5	5

55	Effect of different promoter precursors in a model Ru-Cs/graphite system on the catalytic selectivity for Fischer-Tropsch reaction. <i>Applied Surface Science</i> , <b>2018</b> , 447, 307-314	6.7	5
54	Microcalorimetric and IR spectroscopic studies of CO adsorption on molybdenum nitride catalysts. <i>Physical Chemistry Chemical Physics</i> , <b>2003</b> , 5, 1703-1707	3.6	5
53	Relationship between surface properties of PtSnBiO <sub>2</sub> catalysts and their catalytic performance for the CO <sub>2</sub> and propylene reaction to yield hydroxybutanoic acid. <i>Applied Organometallic Chemistry</i> , <b>2000</b> , 14, 783-788	3.1	5
52	Oxidative dehydrogenation of ethane over chromia-pillared montmorillonite catalysts. <i>Studies in Surface Science and Catalysis</i> , <b>1994</b> , 82, 103-111	1.8	5
51	Hydrodesulfurization and hydrogenation activities of carbon supported bimetallic catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , <b>1990</b> , 41, 167-173		5
50	Hydrogenation of CO <sub>2</sub> on Fe/carbon catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , <b>1986</b> , 31, 349-354		5
49	Influence of surface structure on the interaction of allyl iodide with MoO <sub>3</sub> catalysts. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1987</b> , 1031		5
48	Effect of particle size on the desorption and dissociation of CO from carbon-supported iron catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , <b>1985</b> , 28, 419-424		5
47	Influence of the particle size of metal in the hydrogenolysis of n-butane on carbon supported iron catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , <b>1985</b> , 27, 283-286		5
46	Effect of the metal precursor on the catalytic performance of the Ru/KL system for the ethanol transformation reactions. <i>Applied Catalysis A: General</i> , <b>2017</b> , 535, 61-68	5.1	4
45	Solid-state ion exchange of ammonium heptamolybdate tetrahydrate into ZSM-5 zeolite. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2018</b> , 131, 1295-1306	4.1	4
44	Elucidation of the solid-state ion exchange mechanism of MoCl <sub>5</sub> into ZSM-5 zeolite. <i>Thermochimica Acta</i> , <b>2017</b> , 655, 269-277	2.9	4
43	Structural changes on RuCu/KL bimetallic catalysts as evidenced by n-hexane reforming. <i>Catalysis Today</i> , <b>2008</b> , 133-135, 793-799	5.3	4
42	Interactions between toluene and aniline and graphite surfaces. <i>Carbon</i> , <b>2006</b> , 44, 3130-3133	10.4	4
41	Interaction of CO <sub>2</sub> with ZnO Powders of Different Microcrystalline Surfaces. <i>ACS Symposium Series</i> , <b>1996</b> , 347-356	0.4	4
40	Characterization of Carbon-Supported Iron Catalysts Prepared from Fe(CO) <sub>5</sub> . <i>Adsorption Science and Technology</i> , <b>1986</b> , 3, 33-40	3.6	4
39	Effect of Mo promotion on the activity and selectivity of Ru/Graphite catalysts for Fischer-Tropsch synthesis. <i>Catalysis Today</i> , <b>2020</b> , 357, 185-192	5.3	4
38	Taking advantage of sulfur impurities present in commercial carbon nanofibers to generate selective palladium catalysts. <i>Carbon</i> , <b>2020</b> , 157, 120-129	10.4	4

37	Reductive degradation of 2,4-dichlorophenoxyacetic acid using Pd/carbon with bifunctional mechanism. <i>Catalysis Today</i> , <b>2020</b> , 357, 361-367	5.3	4
36	New Insights in the Development of Carbon Supported Ruthenium Catalysts for Hydrogenation of Levulinic Acid. <i>Current Catalysis</i> , <b>2018</b> , 7, 129-137	0.4	3
35	Alumina supported molybdenum-nickel carbides as catalysts for the dry reforming of methane. <i>Studies in Surface Science and Catalysis</i> , <b>2001</b> , 437-444	1.8	3
34	Utilization of CO <sub>2</sub> in the reforming of natural gas on carbon supported ruthenium catalysts. Influence of MgO addition. <i>Studies in Surface Science and Catalysis</i> , <b>1998</b> , 114, 399-402	1.8	3
33	CO hydrogenation over potassium promoted iron, cobalt, and nickel Catalysts Prepared from Cyanide Complexes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>1990</b> , 582, 197-210	1.3	3
32	Efficient nickel and copper-based catalysts supported on modified graphite materials for the hydrogen production from formic acid decomposition. <i>Applied Catalysis A: General</i> , <b>2021</b> , 629, 118419	5.1	3
31	Tracking the paths for the sucrose transformations over bifunctional Ru-POM/AC catalysts. <i>Catalysis Today</i> , <b>2020</b> , 357, 113-121	5.3	3
30	Effect of N-doping and carbon nanostructures on NiCu particles for hydrogen production from formic acid. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 298, 120604	21.8	3
29	Cu-based N-doped/undoped graphene nanocomposites as electrocatalysts for the oxygen reduction. <i>Journal of Applied Electrochemistry</i> , <b>2019</b> , 49, 693-703	2.6	2
28	Oxygen exchange between C <sub>18</sub> O <sub>2</sub> and basic metal oxides (CaO, MgO, ZrO <sub>2</sub> ZnO). <i>Studies in Surface Science and Catalysis</i> , <b>1997</b> , 112, 277-284	1.8	2
27	Novel strategy for the synthesis of vertically orientated carbon nanofibers. <i>Materials Research Bulletin</i> , <b>2008</b> , 43, 1737-1742	5.1	2
26	Support effect over rhodium catalysts during the reforming of methane by carbon dioxide. <i>Studies in Surface Science and Catalysis</i> , <b>2000</b> , 130, 3675-3680	1.8	2
25	Hydrocarbons from synthesis gas: selectivity changes induced by the zeolite matrix on the metallic function in Rh/Y catalysts. <i>Applied Catalysis A: General</i> , <b>1993</b> , 107, 59-71	5.1	2
24	Carbon monoxide hydrogenation over Fe/HZSM-5 catalysts. Effect of SiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> zeolite ratio. <i>Catalysis Letters</i> , <b>1993</b> , 18, 65-71	2.8	2
23	Some aspects of reversible chemisorption on supported platinum catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , <b>1993</b> , 49, 53-60		2
22	An attempt to correlate selectivity in CO hydrogenation and morphology of iron catalysts. <i>Catalysis Letters</i> , <b>1989</b> , 2, 273-278	2.8	2
21	Evaluation of graphenic and graphitic materials on the adsorption of Triton X-100 from aqueous solution. <i>Environmental Pollution</i> , <b>2021</b> , 284, 117161	9.3	2
20	Effect of surfactant concentration on the morphology of MoxSy nanoparticles prepared by a solvothermal route. <i>Green Processing and Synthesis</i> , <b>2017</b> , 6,	3.9	1



19	Exploring the insertion of ethylenediamine and bis(3-aminopropyl)amine into graphite oxide. <i>Nanoscience Methods</i> , <b>2014</b> , 3, 28-39		1
18	Catalytic Removal of Water-Solved Aromatic Compounds by Carbon-Based Materials <b>2012</b> , 499-520		1
17	An immersion calorimetric study of the interactions between some organic molecules and functionalized carbon nanotube surfaces. <i>Thermochimica Acta</i> , <b>2013</b> , 567, 107-111	2.9	1
16	Nitromethane-water competitive adsorption over modified activated carbon. <i>Adsorption</i> , <b>2011</b> , 17, 595-602		1
15	Preparation of gold catalysts supported on SiO <sub>2</sub> -TiO <sub>2</sub> for the CO PROX reaction. <i>Studies in Surface Science and Catalysis</i> , <b>2010</b> , 719-722	1.8	1
14	Adsorption and microcalorimetric measurements on activated carbons prepared from Polyethylene Terephthalate. <i>Studies in Surface Science and Catalysis</i> , <b>2007</b> , 185-192	1.8	1
13	Detection of specific electronic interactions at the interface aromatic hydrocarbon-graphite by immersion calorimetry. <i>Studies in Surface Science and Catalysis</i> , <b>2007</b> , 160, 689-696	1.8	1
12	Development of nanostructured catalytic membranes for partial benzene hydrogenation to cyclohexene. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 4391-401	1.3	1
11	Comparative determination of surface and lattice oxygen mobility on vanadium phosphorus oxides by isotopic exchange with C <sup>18</sup> O <sub>2</sub> . <i>Studies in Surface Science and Catalysis</i> , <b>2001</b> , 379-386	1.8	1
10	Propylene Selective Oxidation as Studied by Oxygen-18 Labelling on Well-Denned MoO <sub>3</sub> Catalysts. <i>Studies in Surface Science and Catalysis</i> , <b>1994</b> , 82, 67-74	1.8	1
9	Reduction of NO with carbons using copper based catalysts. <i>Coal Science and Technology</i> , <b>1995</b> , 24, 1795-1798		1
8	Study of the activation process and catalytic behaviour of a supported iron ammonia synthesis catalyst. <i>Applied Surface Science</i> , <b>1993</b> , 72, 103-111	6.7	1
7	Carbothermally generated copper-molybdenum carbide supported on graphite for the CO <sub>2</sub> hydrogenation to methanol. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 4051-4059	5.5	1
6	Study of the Interaction of an Iron Phthalocyanine Complex over Surface Modified Carbon Nanotubes. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
5	Building up Multiwall Carbon Nanotubes Nanostructures inside Millimetric Channels of Ceramic Monoliths. <i>Journal of Nano Research</i> , <b>2012</b> , 18-19, 271-279	1	0
4	Tandem catalysts for the selective hydrogenation of butadiene with hydrogen generated from the decomposition of formic acid. <i>Chemical Communications</i> , <b>2021</b> , 57, 6479-6482	5.8	0
3	An Easy Methodology for the Incorporation of Carbon Nanotubes on Surfaces of Components Applied as Electronic Devices. <i>Journal of Nano Research</i> , <b>2012</b> , 18-19, 157-163	1	
2	Design of appropriate surface sites for ruthenium-ceria catalysts supported on graphite by controlled preparation method. <i>Studies in Surface Science and Catalysis</i> , <b>2010</b> , 751-754	1.8	

- 1 Surface reorganization of carbon supported cobalt catalysts during CO chemisorption. *Reaction Kinetics and Catalysis Letters*, **1990**, 42, 113-120