

FRANCISCO CARRASCO MARÍN

Grupo de Investigación: GRUPO DE INVESTIGACIÓN EN MATERIALES DE CARBÓN (Cod.: RNM172)

Departamento: Universidad de Granada. Química Inorgánica

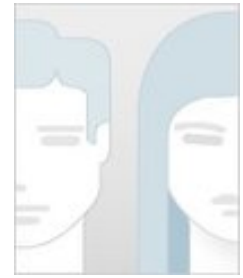
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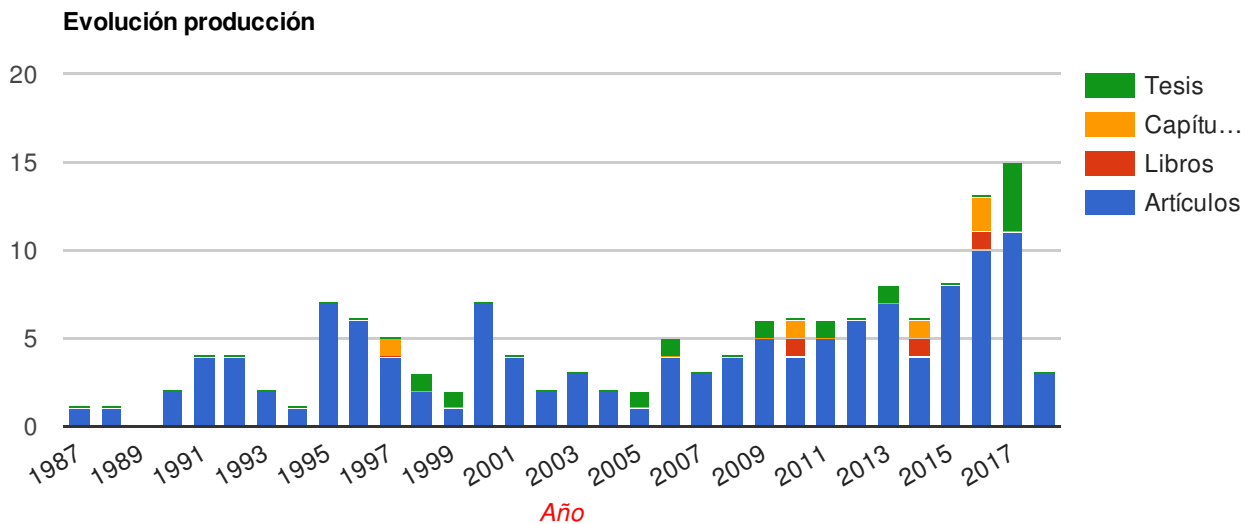
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Ficha del Directorio

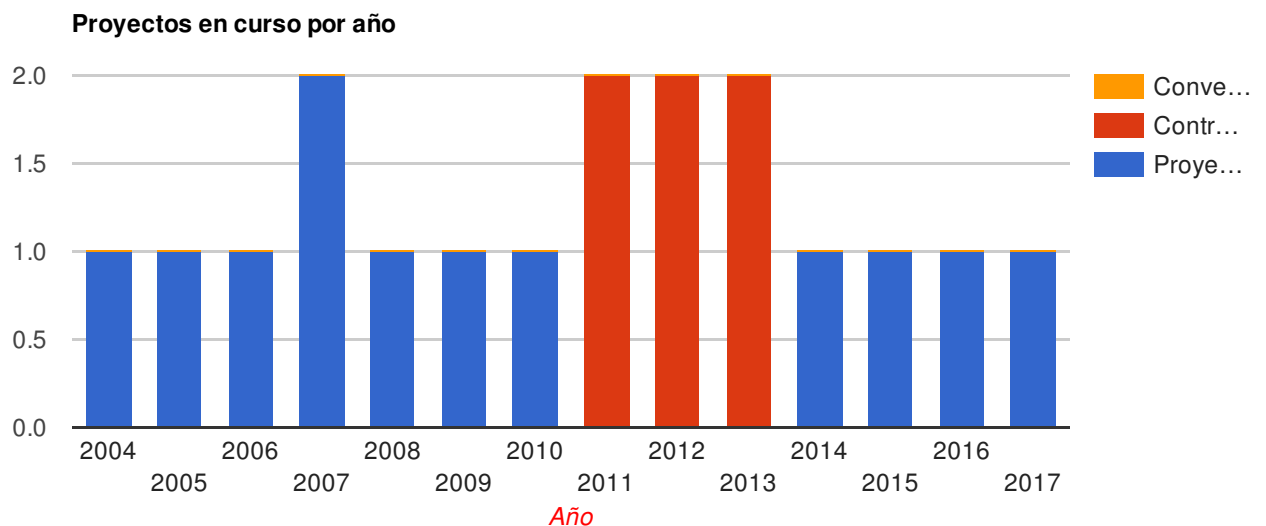
Producción 147

Artículos (128) Libros (3) Capítulos de Libros (5) Tesis dirigidas (11)



Proyectos dirigidos 5

Proyectos (3) Contratos (2) Convenios (0)



Actividades 6

Titulo publicación	Fuente	Tipo	Fecha
Activated carbons from agricultural waste solvothermally doped with sulphur as electrodes for supercapacitors	Chemical engineering journal	Articulo	2018
Carbon-tio2 composites as high-performance supercapacitor electrodes: synergistic effect between carbon and metal oxide phases	Journal of materials chemistry a	Articulo	2018
Electrochemical performances of supercapacitors from carbon-zro2 composites	Electrochimica acta	Articulo	2018
Activated carbons from koh and h3po4-activation of olive residues and its application as supercapacitor electrodes	Electrochimica acta	Articulo	2017
Biogas upgrading by selective adsorption onto co2 activated carbon from wood pellets	Journal of environmental chemical engineering	Articulo	2017
Chars from waste tire rubber by catalytic pyrolysis and the statistical analysis of the adsorption of fe in potable water	Environmental progress & sustainable energy	Articulo	2017
Cobalt-doped carbon gels as electro-catalysts for the reduction of co2 to hydrocarbons	Catalysts	Articulo	2017
Desarrollo de filtros basados en materiales de carbón nanoestructurados para separación o purificación de gases	Universidad de granada. facultad de ciencias	Tesis doctoral	2017
Development of carbon-zro2composites with high performance as visible-light photocatalysts	Applied catalysis b: environmental	Articulo	2017
Electrodos basados en carbón, obtenidos a partir de residuos agrícolas y geles de carbono, para supercondensadores y electro-reducción de oxígeno	Facultad de ciencias	Tesis doctoral	2017
Functionalized adsorbents prepared from fruit peels: equilibrium, kinetic and thermodynamic studies for copper adsorption in aqueous solution	Journal of cleaner production	Articulo	2017
Geles de carbón para electro-reducción de co2 a hidrocarburos, electro-reducción de oxígeno, y almacenamiento de energía	Universidad de granada, granada. españa	Tesis doctoral	2017
Grapefruit peels as biosorbent: characterization and use in batch and fixed bed column for cu(ii) uptake from wastewater	Journal of chemical technology and biotechnology	Articulo	2017
New carbon xerogel-tio2 composites with high performance as visible-light photocatalysts for dye mineralization	Applied catalysis b: environmental	Articulo	2017
Optimization models type box-behnken in the obtaining of biodiesel from waste frying oil using a large-acidity carbonaceous catalyst	International journal of chemical reactor engineering	Articulo	2017
Symmetric supercapacitor electrodes from koh activation of pristine, carbonized, and hydrothermally treated melia azedarach stones	Materials	Articulo	2017
Synthesis and characterization of solid polymer and carbon spheres derived from an emulsion polymerization reaction of different phenolic compounds with formaldehyde	Colloids and surfaces. a, physicochemical and engineering aspects	Articulo	2017
Síntesis, características superficiales y aplicaciones electroquímicas de esferas y monolitos de carbono y carbones activados. efecto de los precursores de carbono y del contenido en n	Universidad de granada. facultad de ciencias	Tesis doctoral	2017
Adsorption mechanism of chromium(iii) from water solution on bone char: effect of operating conditions	Adsorption	Articulo	2016
Aplicaciones de adsorbentes y catalizadores en procesos medioambientales y energéticos	Universidad internacional de andalucía	Libros	2016
Chemoselective pt-catalysts supported on carbon-tio2 composites for the direct hydrogenation of citral to unsaturated alcohols	Journal of catalysis	Articulo	2016
Controlling interpenetration for tuning porosity and luminescence properties of flexible mofs based on biphenyl-4,4'-dicarboxylic acid	Crystengcomm	Articulo	2016

dicarboxylic acid			
Effect of the addition of a second phenol on the textural properties of carbon aerogels	Adsorption	Articulo	2016
Free metal oxygen-reduction electro-catalysts obtained from biomass residue of the olive oil industry	Chemical engineering journal	Articulo	2016
Importance of the adsorption method used for obtaining the nanoparticle dosage for asphaltene-related treatments	Energy & fuels	Articulo	2016
Influence of the pt-particle size on the performance of carbon supported catalysts used in the hydrogenation of citral	Catalysis communications	Articulo	2016
Monolitos de carbón en adsorción y catálisis	Aplicaciones de adsorbentes y catalizadores en procesos medioambientales y energéticos	Capítulo de libro	2016
Organic xerogels doped with tris(2, 2'-bipyridine) ruthenium (ii) as hydroxyl radical promoters: synthesis, characterization, and photoactivity	Chemical engineering journal	Articulo	2016
Removal of fluoride from aqueous solution using acid and thermally treated bone char	Adsorption	Articulo	2016
Selective hydrogenation of citral by noble metals supported on carbon xerogels: catalytic performance and stability	Applied catalysis a: general	Articulo	2016
Uso de materiales de carbón para el almacenamiento y la producción de energía	Aplicaciones de adsorbentes y catalizadores en procesos medioambientales y energéticos	Capítulo de libro	2016
About the control of vocs emissions from blended fuels by developing specific adsorbents using agricultural residues	Journal of environmental chemical engineering	Articulo	2015
Bacteria supported on carbon films for water denitrification	Chemical engineering journal	Articulo	2015
Coupling noble metals and carbon supports in the development of combustion catalysts for the abatement of btx compounds in air streams	Catalysts	Articulo	2015
Development of carbon xerogels as alternative pt-supports for the selective hydrogenation of citral	Catalysis communications	Articulo	2015
Fitting the porosity of carbon xerogel by co2 activation to improve the tmp/n-octane separation	Microporous and mesoporous materials	Articulo	2015
Influence of the physicochemical properties of inorganic supports on the activity of immobilized bacteria for water denitrification	Journal of environmental management	Articulo	2015
Influence of the pretreatment conditions on the development and performance of active sites of pt/tio2 catalysts used for the selective citral hydrogenation	Journal of catalysis	Articulo	2015
Mesoporous carbon-xerogels films obtained by microwave assisted carbonization	Materials letters	Articulo	2015
Caracterización textural y química de materiales de carbón	Desarrollo y aplicaciones de materiales avanzados de carbón	Capítulo de libro	2014
Cooperative adsorption of bisphenol-a and chromium(iii) ions from water on activated carbons prepared from olive-mill waste	Carbon	Articulo	2014
Desarrollo y aplicaciones de materiales avanzados de carbón	Universidad internacional de andalucía	Libros	2014
Microspheres of carbon xerogel: an alternative pt-support for the selective hydrogenation of citral	Applied catalysis a: general	Articulo	2014
Removal of the surfactant sodium dodecylbenzenesulfonate from	Journal of colloid and		

water by processes based on adsorption/bioadsorption and biodegradation	Journal of Colloid and Interface Science	Artículo	2014
Tailoring the surface chemistry and porosity of activated carbons: evidence of reorganization and mobility of oxygenated surface groups	Carbon	Artículo	2014
Carbon xerogel microspheres and monoliths from resorcinol-formaldehyde mixtures with varying dilution ratios. preparation, surface characteristics, and electrochemical double-layer capacitances	Langmuir	Artículo	2013
Catalysts supported on carbon materials for the selective hydrogenation of citral	Catalysts	Artículo	2013
Electrochemical performance of cu- and ag-doped carbon aerogels	materials chemistry and physics	Artículo	2013
Enlarging an isorecticular family: 3,3',5,5'-tetramethyl-4, 4'-bipyrazolato-based porous coordination polymers	Crystal growth and design	Artículo	2013
Geles de carbón y carbones activados como electrodos de supercondensadores	Universidad pontificia bolivariana, medellín, colombia	Tesis doctoral	2013
Importance of the rheological properties of the organic sol mixtures in the preparation of cu-doped carbon xerogels	Carbon	Artículo	2013
Synthesis, surface characteristics, and electrochemical capacitance of cu-doped carbon xerogel microspheres	Carbon	Artículo	2013
Tailoring activated carbons for the development of specific adsorbents of gasoline vapors	Journal of hazardous materials	Artículo	2013
Activated carbons from koh-activation of argan (argania spinosa) seed shells as supercapacitor electrodes	Bioresource technology	Artículo	2012
Electrochemical performance of carbon gels with variable surface chemistry and physics	Carbon	Artículo	2012
On the micro- and mesoporosity of carbon aerogels and xerogels. the role of the drying conditions during the synthesis processes	Chemical engineering journal	Artículo	2012
Preparation of carbon aerogel supported platinum catalysts for the selective hydrogenation of cinnamaldehyde	Applied catalysis a: general	Artículo	2012
Structural characterization of carbon xerogels: from film to monolith	Microporous and mesoporous materials	Artículo	2012
Water sorption on silica- and zeolite-supported hygroscopic salts for cooling system applications	Energy conversion and management	Artículo	2012
Activated carbon cloth as adsorbent and oxidation catalyst for the removal of amitrole from aqueous solution	Adsorption	Artículo	2011
Comportamiento de geles de carbón con diferente física y química superficial como electrodos de supercondensadores y soportes de catalizadores de pt	Universidad de granada. química inorgánica	Tesis doctoral	2011
Heterogeneous and homogeneous fenton processes using activated carbon for the removal of the herbicide amitrole from water	Applied catalysis b: environmental	Artículo	2011
Pt catalysts supported on activated carbons for catalytic wet air oxidation of aniline: activity and stability	Applied catalysis b: environmental	Artículo	2011
Química superficial de los materiales de carbon	Boletín del grupo español del carbón	Artículo	2011
Surface characteristics and electrochemical capacitances of carbon aerogels obtained from resorcinol and pyrocatechol using boric and oxalic acids as polymerization catalysts	Carbon	Artículo	2011
Control de la contaminación química y biológica de las aguas residuales urbanas	Nuevos materiales y tecnologías para el tratamiento del agua	Capítulo de libro	2010
Design of low-temperature pt-carbon combustion catalysts for voc's	Journal of hazardous		

Design of low-temperature pt-carbon combustion catalysts for vocs treatments	Journal of hazardous materials	Articulo	2010
Nuevos materiales y tecnologías para el tratamiento del agua	Editorial universidad internacional de andalucía	Libros	2010
Textural and mechanical characteristics of carbon aerogels synthesized by polymerization of resorcinol and formaldehyde using alkaline carbonates as basification agents	Physical chemistry chemical physics	Articulo	2010
Water adsorption on zeolite 13x: comparison of the two methods based on mass spectrometry and thermogravimetry	Adsorption	Articulo	2010
Wet air oxidation of trinitrophenol with activated carbon catalysts: effect of textural properties on the mechanism of degradation	Applied catalysis b: environmental	Articulo	2010
Carbon aerogels from gallic acid-resorcinol mixtures as adsorbents of benzene, toluene and xylenes from dry and wet air under dynamic conditions	Carbon	Articulo	2009
Carbon based monoliths for the catalytic elimination of benzene, toluene and m-xylene	Applied catalysis a: general	Articulo	2009
Influence of support porosity and pt content of pt/carbon aerogel catalysts on metal dispersion and formation of self-assembled pt-carbon hybrid nanostructures	Carbon	Articulo	2009
Materiales monolíticos avanzados de carbón para la eliminación de contaminantes orgánicos mediante procesos catalíticos de oxidación en fase gaseosa y líquida	Universidad de granada. química inorgánica	Tesis doctoral	2009
Palladium and platinum catalysts supported on carbon nanofiber coated monoliths for low-temperature combustion of btx	Applied catalysis b: environmental	Articulo	2009
Surface chemistry, porous texture, and morphology of n-doped carbon xerogels	Langmuir	Articulo	2009
Carbon-based monolithic supports for palladium catalysts: the role of the porosity in the gas-phase total combustion of m-xylene	Applied catalysis b: environmental	Articulo	2008
Development of carbon coatings for cordierite foams: an alternative to cordierite honeycombs	Langmuir	Articulo	2008
Inter- and intra-primary-particle structure of monolithic carbon aerogels obtained with varying solvents	Langmuir	Articulo	2008
Iniciación a la investigación en un laboratorio integrado de química	Iniciacion a la investigacion	Articulo	2008
Adsorption of benzene, toluene, and xylenes on monolithic carbon aerogels from dry air flows	Langmuir	Articulo	2007
Methanol partial oxidation on carbon-supported pt and pd catalysts	Catalysis today	Articulo	2007
Reversible toluene adsorption on monolithic carbon aerogels	Journal of hazardous materials	Articulo	2007
Aerogeles monolíticos de carbón como adsorbentes para la eliminación de compuestos orgánicos volátiles (btx)	Universidad de granada. química inorgánica	Tesis doctoral	2006
Granular and monolithic activated carbons from koh-activation of olive stones	Microporous and mesoporous materials	Articulo	2006
Pd and pt catalysts supported on carbon-coated monoliths for low-temperature combustion of xylenes	Carbon	Articulo	2006
Porosity and surface area of monolithic carbon aerogels prepared using alkaline carbonates and organic acids as polymerization catalysts	Carbon	Articulo	2006
Surface area and microporosity of carbon aerogels from gas adsorption and small- and wide-angle x-ray scattering measurements	The journal of physical chemistry b	Articulo	2006
Ligand adsorption on an activated carbon for the removal of chromate ions from aqueous solutions	Langmuir	Articulo	2005
Reacciones de descomposición y oxidación parcial de metanol sobre catalizadores de platino y paladio soportados sobre	Universidad de granada.	Tesis	2005

sobre catalizadores de platino y paladio soportados sobre materiales de carbón	química inorgánica	doctoral	2000
Activated carbon and tungsten oxide supported on activated carbon catalysts for toluene catalytic combustion	Environmental science & technology	Articulo	2004
Carbon-supported pt as catalysts for low-temperature methanol decomposition to carbon monoxide and hydrogen	Applied catalysis a: general	Articulo	2004
Adsorption of 1,3,6-naphthalenetrisulfonic acid on activated carbon in the presence of cd(ii), cr(iii), and hg(ii). importance of electrostatic interactions	Langmuir	Articulo	2003
Application of ammonia intermittent temperature-programmed desorption to evaluate surface acidity of tungsten oxide supported on activated carbon	Journal of colloid and interface science	Articulo	2003
Influence of carbon-oxygen surface complexes on the surface acidity of tungsten oxide catalysts supported on activated carbons	Carbon	Articulo	2003
Experimental design to optimize preparation of activated carbons for use in water treatment	Environmental science & technology	Articulo	2002
Surface characteristics of titania/carbon composite aerogels	Langmuir	Articulo	2002
Chemical and physical activation of olive-mill waste water to produce activated carbons	Carbon	Articulo	2001
Dehydration of methanol to dimethyl ether catalyzed by oxidized activated carbons with varying surface acidic character	Carbon	Articulo	2001
Distribution of surface oxygen complexes on activated carbons from immersion calorimetry, titration and temperature- programmed desorption techniques	Carbon	Articulo	2001
Tungsten and tungsten carbide supported on activated carbon: surface structures and performance for ethylene hydrogenation	Langmuir	Articulo	2001
Changes in surface chemistry of activated carbons by wet oxidation	Carbon	Articulo	2000
Decomposition reactions of methanol and ethanol catalyzed by tungsten oxide supported on activated carbon	Reaction kinetics and catalysis letters	Articulo	2000
Regularities in the temperature-programmed desorption spectra of co ₂ and co from activated carbons	Carbon	Articulo	2000
Specific and non-specific interactions of water molecules with carbon surfaces from immersion calorimetry	Carbon	Articulo	2000
Specific and nonspecific interactions between methanol and ethanol and active carbons	Langmuir	Articulo	2000
Tungsten catalysts supported on activated carbon: i. preparation and characterization after their heat treatments in inert atmosphere	Journal of catalysis	Articulo	2000
Tungsten catalysts supported on activated carbon: ii. skeletal isomerization of 1-butene	Journal of catalysis	Articulo	2000
Catalizadores de wolframio soportados en carbon activado. preparacion, caracterizacion y uso en las reacciones de descomposicion de alcoholes, isomerizacion de 1-buteno e hidrogenacion de eteno y de los óxidos de carbono	Universidad de granada. química inorgánica	Tesis doctoral	1999
On the characterization of acidic and basic surface sites on carbons by various techniques	Carbon	Articulo	1999
Effects of non-oxidant and oxidant acid treatments on the surface properties of an activated carbon with very low ash content	Carbon	Articulo	1998
Preparacion y caracterizacion de carbones activados acidos para su utilizacion como catalizadores en las reacciones de transformacion de etanol	Universidad de granada. química inorgánica	Tesis doctoral	1998
Surface-treated activated carbons as catalysts for the dehydration and dehydrogenation reactions of ethanol	The journal of physical chemistry b	Articulo	1998
Activated carbons from coals and agricultural by-products as adsorbents in aqueous phase: preparation, characterization and	Current topics in colloid and	Capítulo	

adsorbents in aqueous phase: preparation, characterization and adsorption of phenolic compounds under static and dynamic conditions	Current topics in colloid and interface science	Capítulo de libro	1997
Adsorption of so ₂ from flowing air by alkaline-oxide-containing activated carbons	Applied catalysis b: environmental	Artículo	1997
On the carbon dioxide and benzene adsorption on activated carbons to study their micropore structure	Langmuir	Artículo	1997
The creation of acid carbon surfaces by treatment with (nh ₄) ₂ s ₂ o ₈	Carbon	Artículo	1997
Water adsorption on activated carbons with different degrees of oxidation	Journal of the chemical society. faraday transactions	Artículo	1997
Deminerallization of a bituminous coal by froth flotation before obtaining activated carbons	Carbon	Artículo	1996
Effect of ageing on the oxygen surface complexes of an oxidized activated carbon	Journal of the chemical society. faraday transactions	Artículo	1996
Microporous activated carbons from a bituminous coal	Fuel	Artículo	1996
Preparation of v/zro ₂ catalysts by the sol-gel method: physical and structural characterization	Journal of materials science	Artículo	1996
Textural changes in coals during hydrogenation	Langmuir	Artículo	1996
The preparation, properties and regeneration of active sorbents from spanish subbituminous coals	Solid fuel chemistry	Artículo	1996
Activated carbon surface modifications by nitric-acid, hydrogen-peroxide, and ammonium peroxydisulfate treatments	Langmuir	Artículo	1995
Activated carbons from a bituminous coal: influence of the deminerallization process	Coal science	Artículo	1995
Adsorption of some substituted phenols on activated carbons from a bituminous coal	Carbon	Artículo	1995
Cobalt catalysts supported on activated carbons - preparation and behavior in the hydrogenation of carbon oxides	Journal of the chemical society. faraday transactions	Artículo	1995
Effect of alkaline metal oxides on the adsorption of so ₂ by activated carbons	Coal science	Artículo	1995
Micropore structure of activated carbons prepared from a spanish subbituminous coal studied by co ₂ , benzene, and cyclohexane adsorption	Langmuir	Artículo	1995
Thermal regeneration of an activated carbon exhausted with different substituted phenols	Carbon	Artículo	1995
Adsorption of co ₂ on activated carbons from diluted ambient environments	Energy & fuels	Artículo	1994
Activated carbons as adsorbents of so ₂ in flowing air. effect of their pore texture and surface basicity	Langmuir	Artículo	1993
Removal of tannic acid from aqueous solutions by activated carbons	Chemical engineering journal	Artículo	1993
Activated carbon columns as adsorbents of gallic acid from aqueous solutions: effect of the presence of different electrolytes	Carbon	Artículo	1992
Adsorption of so ₂ in flowing air onto activated carbons from olive stone	Fuel	Artículo	1992
Steam gasification of a lignite char catalyzed by metals from cr to zn	Fuel	Artículo	1992
Thermal behaviour of metal complexes of two 5-nitroso-4-xyloxylamino pyrimidine derivatives with co(ii), ni(ii), cu(ii) and ag(i) ions	Thermochemica acta	Artículo	1992
Dynamic adsorption of methyl iodide on activated carbons	Carbon	Artículo	1991

Dynamic adsorption of methyl iodide on activated carbons	Carbon	Articulo	1991
Gasification in dry air of coals extracted with tetrahydrofuran	Fuel processing technology	Articulo	1991
Moo2 as catalyst in the co2 gasification of activated carbons and chars	Fuel	Articulo	1991
Pt/carbon catalysts: effect of pretreatments on the dispersion and morphology of the pt particles, on their capacity to chemisorb h2 and on the h2/n-c4h10 reaction	Journal of molecular catalysis (print)	Articulo	1991
Air gasification of activated carbons and chars catalysed by cr2o3 and moo2	Fuel	Articulo	1990
The use of activated carbon columns for the removal of orthophosphate ions from aqueous solutions	Carbon	Articulo	1990
Adsorption of hydrocarbons on thermally treated aluminosilicate	Journal of colloid and interface science	Articulo	1988
Chromium and molybdenum as catalysts in the air gasification reaction of charcoals	Coal science and technology	Articulo	1987

	Título proyecto	Tipo	Inicio	Fin
1	Reduccion de emisiones de co2 y tecnologias de almacenamiento de energias renovables empleando materiales avanzados de carbon	Proyecto	1/1/14	12/31/17
2	Hormigones porosos de alta resistencia como matriz para la fabricación de hormigones polifuncionales.	Contrato	3/1/11	12/31/13
3	Hormigones porosos de alta resistencia como matriz para la fabricación de hormigones polifuncionales. valderribas	Contrato	3/1/11	12/31/13
4	Nuevos aerogeles de carbon como soportes de catalizadores para reacciones de hidrogenacion, oxidacion de covs y como electrocatalizadores en pilas de combustible	Proyecto	10/1/07	9/30/10
5	Diseño de materiales monoliticos de carbon para aplicaciones en descontaminacion ambiental	Proyecto	12/13/04	12/13/07

Actividades 6

Título actividad	Fuente	Tipo	Fecha
Evaluación de proyectos para la agencia nacional de evaluación y prospectiva; anep		Experiencia en evaluación	Dec 1, 2012
Evaluación proyectos anep	Agencia nacional de evaluación y prospectiva	Experiencia en evaluación	Dec 1, 2008
Evaluación proyectos anep	Agencia nacional de evaluación y prospectiva	Experiencia en evaluación	Dec 1, 2014
Grupo especializado de adsorción de la rseq, vocal de la junta directiva		Comité científico en sociedad ci	Sep 17, 2014
Grupo español del carbón		Comité científico en sociedad ci	Jul 10, 2003
Participación en comité de revista: revista colombiana de química		Comités científicos de revista	Nov 1, 2008

Colaboradores

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- **Esther Bailón García** (16)
- **SERGIO MORALES TORRES** (12)
- **MARÍA ÁNGELES FERRO GARCÍA** (8)
- **Jose Francisco Vivo Vilches** (7)
- **MARIA ISIDORA BAUTISTA TOLEDO** (6)
- **MANUEL SANCHEZ POLO** (5)
- **Maria Helena Garcia Rosero** (5)
- **Jesica Castelo Quibén** (4)
- **FRANCISCO JAVIER LÓPEZ GARZÓN** (3)
- **JUAN DE VICENTE ALVAREZ-MANZANEDA** (3)
- **MARTA BOZENA DAWIDZIUK** (3)
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