

Ficha de grupo de investigación

SÓLIDOS POROSOS

Código: RNM342

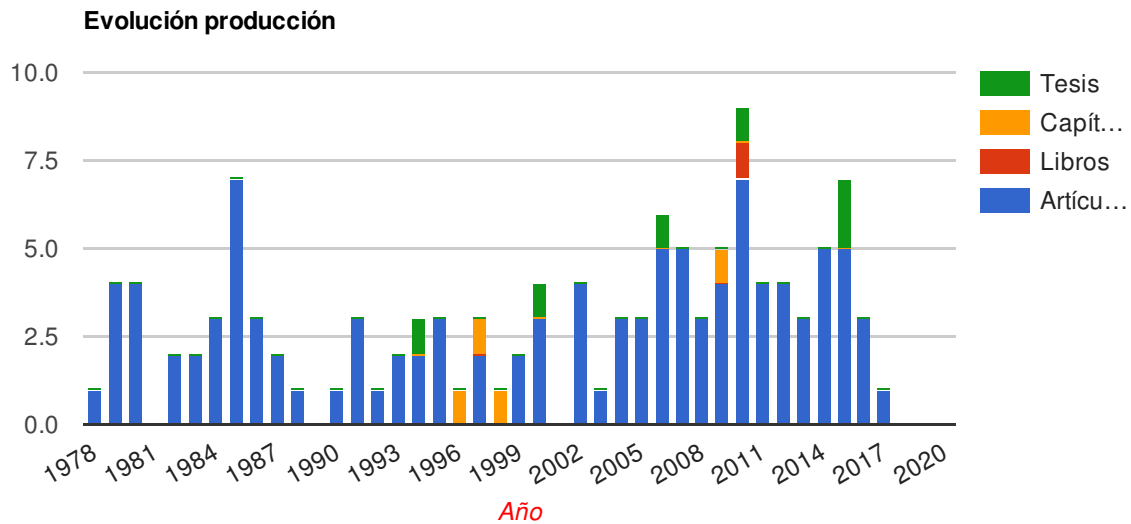
Responsable del grupo: MANUEL JOSÉ PÉREZ MENDOZA

Miembros

- INMACULADA FERNÁNDEZ MORALES Otros
- MARÍA DOMINGO GARCÍA Catedrático de universidad Tiempo completo
- FRANCISCO JAVIER LÓPEZ GARZÓN Catedrático de universidad Tiempo completo
- MANUEL JOSÉ PÉREZ MENDOZA Profesor titular de universidad Tiempo completo
- MARÍA DEL CARMEN ALMAZÁN ALMAZÁN Otros
- LAURA MÉNDEZ LIÑÁN
- FRANCISCO RAMÓN MORALES LARA
- VÍCTOR KARIM ABDELKADER FERNÁNDEZ Becario/a Tiempo completo

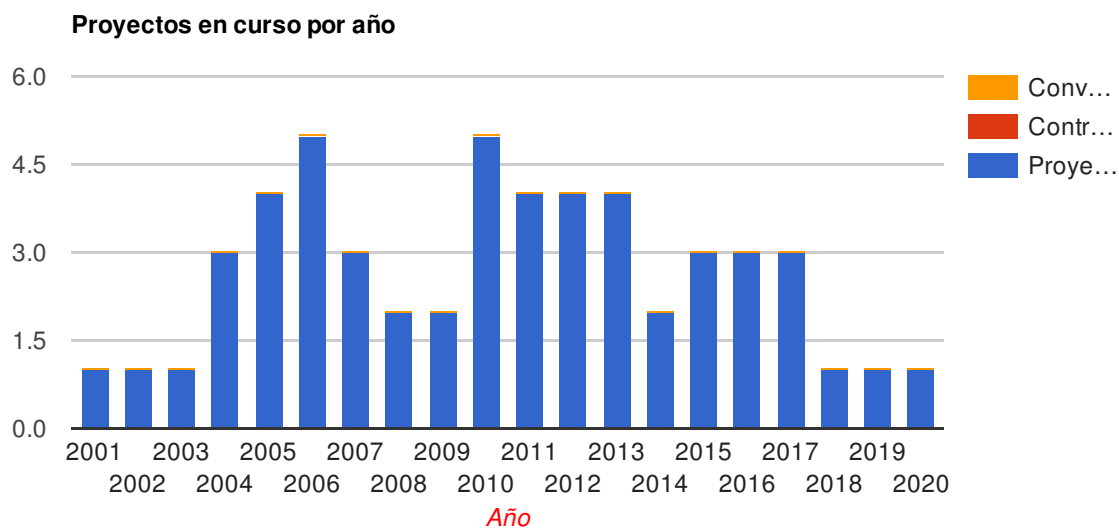
Producción 287

- Artículos (263)
- Libros (1)
- Capítulos de Libros (13)
- Tesis dirigidas (10)



Proyectos dirigidos 15

- Proyectos (15)
- Contratos (0)
- Convenios (0)



Actividades 0

Titulo publicación	Fuente	Tipo	Fecha
Copper-catalyzed direct amination of the superficial graphenic domains of multi-walled carbon nanotubes	Catalysis science and technology	Articulo	2017
Grafting the surface of carbon nanotubes and carbon black with the chemical properties of hyperbranched polyamines	Science and technology of advanced materials	Articulo	2016
New hybrid materials based on the grafting of pd(ii)-amino complexes on the graphitic surface of ac: preparation, structures and catalytic properties	Rsc advances: an international journal to further the chemical sciences	Articulo	2016
Preparation and characterization of trihydroxamic acid functionalized carbon materials for the removal of cu(ii) ions from aqueous solution	Applied surface science	Articulo	2016
2d-cadmium mof and gismondine-like zinc coordination network based on the n-(2-tetrazolethyl)-4-glycine linker	New journal of chemistry	Articulo	2015
A vanadium(iv) pyrazolate metal organic polyhedron with permanent porosity and adsorption selectivity	Chemical communications	Articulo	2015
Atp dephosphorylation can be either enhanced or inhibited by ph-controlled interaction with a dendrimer molecule		Articulo	2015
Covalent bromination of multi-walled carbon nanotubes by iodine bromide and cold plasma treatments	Carbon	Articulo	2015
Degree of functionalization and stability of fluorine groups fixed to carbon nanotubes and graphite nanoplates by cf4 microwave plasma	Applied surface science	Articulo	2015
Estructuras hiperramificadas sobre nanotubos de carbono para la obtención de nanopartículas metálicas soportadas: fijación a través de funciones halogenadas y funcionalización directa	Universidad de granada. facultad de ciencias	Tesis doctoral	2015
Nanopartículas metálicas en nanotubos de carbono. uso de polímeros orgánicos hiperramificados para su ordenación en nanoestructuras.	Facultad de ciencias. universidad de granada.	Tesis doctoral	2015
Effect of the surface chemical of activated carbons on their surface adsorptivity to aromatic adsorbates based on pi-pi interactions	materials chemistry and physics	Articulo	2014
Novel active carbon/crown ether derivative hybrid material for the selective removal of cu(ii) ions: the crucial role of the surface chemical functions	Chemical engineering science	Articulo	2014
Pore-network connectivity and molecular sieving of normal and isoalkanes in the mesoporous silica sba-2	The journal of physical chemistry c	Articulo	2014
Sidewall chlorination of carbon nanotubes by iodine trichloride	The journal of physical chemistry c	Articulo	2014
Supramolecular assembling of molecular ion-ligands on graphite-based solid materials directed to specific binding of metal ions	Inorganica chimica acta	Articulo	2014
Carbon tetrachloride cold plasma for extensive chlorination of carbon nanotubes	The journal of physical chemistry c	Articulo	2013
Functionalization of multi-wall carbon nanotubes by ozone at basic ph. comparison with oxygen plasma and ozone in gas phase	The journal of physical chemistry c	Articulo	2013
Modular structure of a robust microporous mof based on cu 2 paddle-wheels with high co 2 selectivity	Chemical communications	Articulo	2013
An efficient procedure to bond nanostructured nitrogen functionalities to carbon surfaces	Carbon	Articulo	2012
Porosity development in carbon nanofibers by physical and chemical activation	Journal of nano research	Articulo	2012
Preparation of a poly-alkylamine surface-functionalized carbon with excellent performance as a pd(ii) scavenger	Carbon	Articulo	2012

Transferring the properties of molecular receptors to the carbon surface in hybrid materials: the crucial role of porous texture	materials chemistry and physics	Articulo	2012
Effect of plasma treatments of bisphenol a polycarbonate on the characteristics of carbon materials obtained by further pyrolysis	Plasma processes and polymers	Articulo	2011
Effect of plasma treatments of bisphenol a polycarbonate on the characteristics of carbon materials obtained by further pyrolysis	Plasma processes and polymers	Articulo	2011
Influence of carbon xerogel textural properties on the dynamic adsorption of methyl iodide	Chemical engineering journal	Articulo	2011
Influence of carbon xerogel textural properties on the dynamic adsorption of methyl iodide	Chemical engineering journal	Articulo	2011
A flexible pro-porous coordination polymer: non-conventional synthesis and separation properties towards co ₂ /ch ₄ mixtures	Chemistry (weinheim. internet)	Articulo	2010
Adsorption of harmful organic vapors by flexible hydrophobic bis-pyrazolate based mofs	Chemistry of materials	Articulo	2010
Carbon adsorbents from polycarbonate pyrolysis char residue: hydrogen and methane storage capacities	Energy & fuels	Articulo	2010
Influence of nitric acid concentration on the characteristics of active carbons obtained from a mineral coal	Fuel processing technology	Articulo	2010
Pet-based carbons as electrode material in supercapacitors	Journal of power sources	Articulo	2010
Policarbonato de bisfenol a como precursor de adsorbentes carbonosos	Universidad de granada. química inorgánica	Tesis doctoral	2010
Policarbonato de bisfenola como precursor de adsorbentes carbonosos	Universidad de granada	Libros	2010
The influence of the process conditions on the characteristics of activated carbons obtained from pet de-polymerisation	Fuel processing technology	Articulo	2010
Three-dimensional void space structure of activated carbon packed beds	Journal of porous materials	Articulo	2010
Effects of partial and total methane flows on the yield and structural characteristics of mwcnts produced by cvd		Articulo	2009
Microporosity of activated carbons obtained from pet	Characterization of porous solids viii	Articulo	2009
Microporosity of activated carbons obtained from pet	Proceedings of the 8th international symposium on the characterisation of porous solids	Capítulo de libro	2009
Narrow microporosity characterization in polyaramid-derived carbons by adsorption of n ₂ , co ₂ and organic vapours		Articulo	2009
Visualisation of dynamic adsorption by 2d x-ray radiography and 3d x-ray mu-tomography	Characterization of porous solids viii	Articulo	2009
Evaluation of the dispersive component of the surface energy of active carbons as determined by inverse gas chromatography at zero surface coverage	Journal of chromatography a	Articulo	2008
Polymorphic coordination networks responsive to co ₂ , moisture, and thermal stimuli: porous cobalt(ii) and zinc(ii) fluoropyrimidinolates	Chemistry (weinheim. internet)	Articulo	2008
Use of specific surface areas in inverse gas chromatography studies at zero surface coverage	Journal of chromatography a	Articulo	2008
A new method to obtain microporous carbons from pet: characterisation by adsorption and molecular simulation	Microporous and mesoporous materials	Articulo	2007
Adsorption and microcalorimetric measurements on activated carbons prepared from polyethylene terephthalate	Studies in surface science and catalysis	Articulo	2007
Characterisation of periodic mesoporous silicas using molecular simulation	Studies in surface science and catalysis	Articulo	2007

Cvd production of double-wall and triple-wall carbon nanotubes	Diamond and related materials	Articulo	2007
The role of the porosity and oxygen groups on the adsorption of n-alkanes, benzene, trichloroethylene and 1,2-dichloro ethane on active carbons at zero surface coverage	Carbon	Articulo	2007
Analysis of the microporous texture of a glassy carbon by adsorption measurements and monte carlo simulation. evolution with chemical and physical activation	Carbon	Articulo	2006
Carbones activos a partir de residuos de politereftalato de etileno (pet)	Universidad de granada. química inorgánica	Tesis doctoral	2006
Design of hybrid organic/inorganic adsorbents based on periodic mesoporous silica	Industrial & engineering chemistry research	Articulo	2006
Surface characterisation of plasma-modified poly(ethylene terephthalate)	Journal of colloid and interface science	Articulo	2006
Surface characteristics of activated carbons obtained by pyrolysis of plasma pretreated pet	The journal of physical chemistry b	Articulo	2006
Towards helical and y-shaped carbon nanotubes: the role of sulfur in the cvd processes	Nanotechnology	Articulo	2006
Effects of oxygen and carbon dioxide plasmas on the surface of poly(ethylene terephthalate)	Journal of colloid and interface science	Articulo	2005
Influence of molybdenum on the chemical vapour deposition production of carbon nanotubes	Nanotechnology	Articulo	2005
Pet as precursor of microporous carbons: preparation and characterization	Microporous and mesoporous materials	Articulo	2005
Elucidation of the pore structure of sba-2 using monte carlo simulation to interpret experimental data for the adsorption of light hydrocarbons	Langmuir	Articulo	2004
Modelling and experiment towards the design of mesoporous organic-inorganic hybrid adsorbents	Studies in surface science and catalysis	Articulo	2004
The structure of mesoporous silica sba-2 determined by a percolation analysis of adsorption	Langmuir	Articulo	2004
Textural and chemical surface modifications produced by some oxidation treatments of a glassy carbon	Langmuir	Articulo	2003
Ammonia accessibility to the porosity of several activated carbons measured by flow adsorption microcalorimetry	Studies in surface science and catalysis	Articulo	2002
Carbon materials as catalysts for methylamines synthesis	Applied catalysis a: general	Articulo	2002
Dynamic adsorption of ammonia on activated carbons measured by flow microcalorimetry	Applied catalysis a: general	Articulo	2002
On the characterization of chemical surface groups of carbon materials	Journal of colloid and interface science	Articulo	2002
Adsorption of methylamines on carbon materials at zero surface coverage	Langmuir	Articulo	2000
Effect of some oxidation treatments on the textural characteristics and surface chemical nature of an activated carbon	Journal of colloid and interface science	Articulo	2000
Modifications produced by o2 plasma treatments on a mesoporous glassy carbon	Carbon	Articulo	2000
Preparacion, caracterizacion y uso de materiales carbonosos como adsorbentes y catalizadores de la sintesis de metilaminas	Universidad de granada. química inorgánica	Tesis doctoral	2000
Modifications produced by o2 and co2 plasma treatments on a glassy carbon: comparison with molecular gases	Carbon	Articulo	1999
On the adsorption of formaldehyde at high temperatures and zero surface coverage	Langmuir	Articulo	1999
	Adsorption and its applications		

Carbon materials as adsorbents for vapour pollutants.	in industry and environmental protection	Capítulo de libro	1998
Adsorption of organic probes on carbon materials at zero surface coverage	The journal of physical chemistry b	Artículo	1997
Determination of the micropore texture of some glassy carbons using molecular probes	Langmuir	Artículo	1997
Glassy carbons for application in selective adsorption	Current topics in colloid and interface science	Capítulo de libro	1997
The use of gas chromatography to study the adsorption from gaseous phase at the infinite dilution	Studies in surface science and catalysis, vol 99	Capítulo de libro	1996
Effect of oxygen plasma treatment on the porosity and surface chemical nature of glassy carbons	Journal of colloid and interface science	Artículo	1995
Hydrogenation of carbon oxides by ru activated carbon catalysts obtained from ru-3(co)(12) - effect of pretreatment on their dispersion, composition and activity	Journal of molecular catalysis a: chemical	Artículo	1995
Hydrogenation of co ₂ and co by fe catalysts obtained from fe-2(co)(9) and fe-3(co)(12) clusters supported on activated carbons	Fuel	Artículo	1995
Activated carbons as supports for nickel-catalysts	Applied catalysis a: general	Artículo	1994
Adsorption of co ₂ on activated carbons from diluted ambient environments	Energy & fuels	Artículo	1994
El carbón activo como soporte de catalizadores metálicos para la hidrogenación de co y co ₂	Universidad de granada. química inorgánica	Tesis doctoral	1994
Theory of sorption of gases on heterogeneous solids polymeric sorbents	Langmuir	Artículo	1993
Use of gas-chromatography to study the adsorption at zero surface coverage of ch ₃ i on active carbons	Carbon	Artículo	1993
Gas-chromatographic study of the adsorption of methyl-iodide on several types of carbons	Chromatographia	Artículo	1992
Dynamic adsorption of methyl iodide on activated carbons	Carbon	Artículo	1991
Effect of preparation conditions on the properties of carbon-supported ni catalysts	Reaction kinetics and catalysis letters	Artículo	1991
Use of activated carbons obtained from agricultural byproducts for the adsorption of some hydrocarbons	Langmuir	Artículo	1991
The dynamic adsorption of several hydrocarbons on active carbons	Journal of colloid and interface science	Artículo	1990
Adsorption of hydrocarbons on thermally treated aluminosilicate	Journal of colloid and interface science	Artículo	1988
A gas-solid chromatographic study of the adsorption of hydrocarbons and alcohols on graphite	Chromatographia	Artículo	1987
The striking behaviour of cu catalysing the gasification reaction of coal chars in dry air	Fuel	Artículo	1987
Adsorption of n-alkanes on a graphitized carbon black and its activation products in dry air	Chromatographia	Artículo	1986
Behaviour of ag, cu and ag-cu catalysts in the gasification reaction of a lignite char in air. effect of so ₂ on these catalysts	Fuel	Artículo	1986
The stability and thermodynamic functions of 4-amino-1,6-dihydro-1-methyl-2-methylthio-5-nitroso-6-oxo-pyrimidine complexes with mn(ii), fe(ii), co(ii), ni(ii) and cu(ii)	Thermochemica acta	Artículo	1986
Carbon molecular sieves produced by the fixation of sulphur surface complexes	Chromatographia	Artículo	1985
Estudio de las características químicas y superficiales de tres lignitos de la cuenca carbonífera de teruel	Boletín geológico y minero	Artículo	1985

Gas-chromatographic determination of adsorption-isotherms, spreading pressures, london force interactions and equations of state for normal-alkanes on graphite and carbon-blacks	Journal of chromatography a	Articulo	1985
Gasification reaction of a lignite char catalysed by cr, mn, fe, co, nii cu and zn in dry and wet air	Fuel	Articulo	1985
Hydrogenolysis of n-butane and hydrogenation of co on ni and co catalysts supported on saran carbons	Applied catalysis	Articulo	1985
Study of heat treated spanish lignites. characteristics and behaviour in co2 and o2 gasification reaction	Fuel	Articulo	1985
University of granada radiocarbon dates ii	Radiocarbon	Articulo	1985
Adsorption capacity of saran carbons at high temperatures and under dynamic conditions	Carbon	Articulo	1984
Adsorption of hydrocarbons on graphites and a graphitized carbon black at zero surface coverage	Journal of chromatography a	Articulo	1984
High temperature adsorption of hydrocarbons by activated carbons prepared from olive stones	Adsorption science & technology	Articulo	1984
Estudio de la superficie y de la porosidad de algunas bentonitas homoiónicas	Revista de la academia de ciencias matemáticas fisico-químicas y naturales de granada	Articulo	1983
Retención de n-butilamina por algunas muestras homoiónicas de bentonita	Anales de química	Articulo	1983
Estudio del proceso de retención de dimetoato por bentonitas homoiónicas	Anales de edafología y agrobiología	Articulo	1982
University of granada radiocarbon dates i	Radiocarbon	Articulo	1982
99ru and 153eu móssbauer spectra of the ternary hydrides m2ruh6	Journal of the chemical society. dalton transactions	Articulo	1980
A study of the new cubic, ordered perovskites balamruo6 and the related phases la2mruo6 by 99ru móssbauer spectroscopy	Journal of solid state chemistry	Articulo	1980
Influencia de la longitud de onda de máxima absorbancia de un medio coloreado sobre el grado de extinción de la radiación cerenkov	Anales de química	Articulo	1980
Ru móssbauer spectra of quaternary ru(v) oxides with the hexagonal barium titanate structure	Journal of solid state chemistry	Articulo	1980
A studyof the ru(v) perovskitesm2lnruo6 by 99rumóssbauer spectroscopy and other techniques	Journal of solid state electrochemistry	Articulo	1979
Extinción por color de la emisión cerenkov. aplicación a la valoración de sustancias coloreadas	Anales de química	Articulo	1979
Influencia de la energía beta máxima de un radioisótopo en el grado de extinción por color de la radiación cerenkov	Energia nuclear	Articulo	1979
Variación del grado de extinción por color de la radiación cerenkov al modificar el índice de refracción del medio	Energia nuclear	Articulo	1979
El laboratorio de datación por c-14 de la universidad de granada	Cuadernos de prehistoria de la universidad de granada	Articulo	1978

	Titulo proyecto	Tipo	Inicio	Fin
1	Nanomateriales avanzados basados en grafeno funcionalizado para aplicaciones catalíticas	Proyecto	3/1/15	12/31/17
2	Plasmas frios para la modificación de grafeno y óxido de grafeno	Proyecto	3/1/15	12/31/17
3	Nanopartículas metálicas en nanotubos de carbono y negros de carbón. uso de polímeros orgánicos hiperramificados para su ordenación en nanoestructuras	Proyecto	3/2/10	2/2/14
4	Hacia el desarrollo de nuevas nanoestructuras de partículas metálicas en soportes carbonosos: anclaje mediante poliaminas hiperramificadas a nanotubos de carbono y negros de carbón	Proyecto	3/1/10	6/30/13
5	Tratamientos de cnts y cbs mediante plasmas para su funcionalización con estructuras hiperramificadas	Proyecto	3/1/10	6/30/13
6	Obtención de carbones activos a partir de polímeros orgánicos y materiales plásticos de, desecho. estudio de sus características mediante procesos de adsorción y simulación, molecular	Proyecto	3/1/05	5/31/10
7	Desarrollo de carbones activados a partir de subproductos agrícolas para almacenamiento de gas natural	Proyecto	3/1/09	12/31/09
8	Obtención de carbones activos a partir de carbones minerales para el almacenamiento de gas	Proyecto	3/1/08	12/31/08
9	Residuos poliméricos como materia prima en la preparación de carbones activos granulares	Proyecto	3/13/04	12/13/07
10	Diseño y preparación de nuevos adsorbentes altamente selectivos basados en materiales compuestos nanoestructurados carbono-sólido inorgánico	Proyecto	3/1/06	9/30/07
11	Obtención de carbones activos a partir de desechos de pet	Proyecto	3/1/06	12/31/06
12	Obtención de carbones activos a partir de desechos de pet	Proyecto	3/30/05	4/30/06
13	Obtención de carbones activos a partir de desechos de pet	Proyecto	3/30/04	4/30/05
14	Preparación de adsorbentes carbonosos a partir de plásticos	Proyecto	3/28/01	12/31/04
15	Espectrómetro de fotoelectrones de rayos x (xps)	Proyecto	1/1/10	

Actividades 0

Titulo actividad	Entidad	Tipo	Fecha
-------------------------	----------------	-------------	--------------

Colaboradores 20

- FRANCISCO JAVIER LÓPEZ GARZÓN (165)
- MARÍA DOMINGO GARCÍA (152)
- MANUEL JOSÉ PÉREZ MENDOZA (114)
- INMACULADA FERNÁNDEZ MORALES (80)
- MARÍA DEL CARMEN ALMAZÁN ALMAZÁN (60)
- CARLOS MORENO CASTILLA (50)
- Víctor Karim Abdelkader Fernández (18)
- LAURA MÉNDEZ LIÑÁN (15)
- Francisco Ramón Morales Lara (10)
- JORGE ANDRÉS RODRÍGUEZ NAVARRO (10)
- JOSÉ RIVERA UTRILLA (10)
- ELISA MARÍA BAREA MARTÍNEZ (9)
- ANTONIO A. GARCIA RODRIGUEZ (8)
- FRANCISCO CARRASCO MARÍN (7)
- DEISI ALTMAYER VAZ (4)
- ANTONIO RODRÍGUEZ DIÉGUEZ (3)

- JUAN MANUEL SALAS PEREGRÍN (3)
- ENRIQUE COLACIO RODRÍGUEZ (2)
- ALFONSO SALINAS CASTILLO (1)
- MARÍA PURIFICACIÓN SÁNCHEZ SÁNCHEZ (1)