

<b>Autor: Ana de Prado González</b>
<b>Título: Nuevas perspectivas con complejos de carbeno de Fischer: Carbenos soportados, enantiopuros y no estabilizados</b>
<b>Fecha lectura: 17/02/2006</b>

## Publicaciones

- 1.- Synthesis of New Chiral Alkenyl Fischer Carbene Complexes  
Barluenga, J.; Panday, N.; Santamaría, J.; de Prado, A.; Tomás, M.  
*Arkivoc* **2003**, 576
- 2.- Polymer-Bound Fischer Tungsten Carbene Complexes: Synthesis and Reactivity  
Barluenga, J.; de Prado, A.; Santamaría, J.; Tomás, M.  
*Organometallics*. **2005**, 24, 36
- 3.- Uncatalyzed Mukaiyama-Michael Reaction: Rapid Access to Simple and Complex Enantiopure gamma-Butenolides  
Barluenga, J.; de Prado, A.; Santamaría, J.; Tomás, M.  
*Angew. Chem. Int. Ed.* **2005**, 44, 6583
- 4.- Cyclopropanation of Enantiopure Metal Alkenyl Carbenes with 2-Methoxyfuran: A Practical Route to Carboxycyclopropylglycine Precursors  
Barluenga, J.; de Prado, A.; Santamaría, J.; Tomás, M.  
*Chem. Eur. J.* **2007**, 13, 1326
- 5.- [4+2] Cyclization Reactions of Chiral Cb-Substituted Fischer Alkenyl Fischer Carbene Complexes: Efficient Synthesis of Enantiopure Cyclohexenone and Norbornene Derivatives  
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*Tetrahedron* **2007**, 63, 6542
- 6.- Metal Carbene Dimerization: Versatile Approach to Polyalkynylethenes  
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*Angew. Chem. Int. Ed.* **2008**, 47, 6225

<b>Autor: Miguel Cabielles Ondina</b>
<b>Título: Reutilización de inquemados de cenizas volantes como precursores para la preparación de materiales grafiticos</b>
<b>Fecha lectura: 30/03/2006</b>

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1.- M. Cabielles, J.N. Rouzaud and A. B. Garcia, “HRTEM studies of graphite materials prepared by HTT of unburned carbon present in coal combustion fly ashes, *Carbon* (enviado), 2008.

2.- M. Cabielles, M. A. Montes-Morán and A. B. Garcia, Structural study of graphite materials prepared by HTT of unburned carbon concentrates from coal combustion fly ashes, *Energy & Fuels* **22**, pp. 1239-1243, 2008.

3.- J.-N. Rouzaud, M. Cabielles and A. B. Garcia, “HRTEM Study of Carbons Prepared by High Temperatures Treatments of Unburned Carbon from Coal Combustion Fly Ashes”, CD Rom *Carbon 07*, The American Carbon Society, 2007.

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5.- M. Cabielles, A. B. Garcia y M. A. Montes-Móran, “Conductividad eléctrica de materiales grafiticos preparados a partir de inquemados de cenizas volantes”, *CD Rom VIII Reunión del Grupo Español del Carbón*, Grupo Español del carbón, 2005.

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7.- M. Cabielles, D. González, E. García-Suarez and A. B. Garcia, “Unburned carbon from coal combustion fly ashes as precursor for graphite materials”, *CD Rom Carbon '03* (ISBN 84-607-8305-7), Spanish Carbon Group, 2003.

<b>Autor: Ana Belén García Delgado</b>
<b>Título: Nuevos análogos estructurales de la Rifabutina: Síntesis y actividad biológica frente a mycobacteriumtuberculosis</b>
<b>Fecha lectura: 31/03/2006</b>

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1.- “Imino-Diels-Alder route to meso-2,6-disubstituted-4-piperidones.”

Autores: A-B. García; C. Valdés, M-P. Cabal

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2.- “NMR Spectroscopic Análisis of New Spiro-piperidyl Rifamycins.”

Autores: E. Rubio; I. Merino; A-B. García; M-P. Cabal; C. Ribas; M. Bayod-Jasanada

Revista: *Magn. Reson. Chem.*, **2005**, 43, 269-282

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Revista: *Bioorg. Med. Chem. Lett.*, **2006**, 16, 5717-5722.

4.- “Proline-Catalyzed Imino-Diels-Alder Reactions: Synthesis of meso-2,6-Diaryl-4-piperidones.” Autores: F. Aznar; A-B. García; M-P. Cabal

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*Antimicrobial Agents and Chemotherapy* / 54 /**2010** / 5363-5365.

<b>Autor: Luciano Cuesta Orcoyen</b>
<b>Título: Reactividad de complejos carbonílicos de Molibdeno y Renio con ligandos de los grupos 15,16 y 17</b>
<b>Fecha lectura: 02/06/2006</b>

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- 1.- Reactivity of molybdenum and rhenium hydroxo-carbonyl complexes toward organic electrophiles. Autores: Cuesta, Luciano; Gerbino, Dario C.; Hevia, Eva; Morales, Dolores; Clemente, M. Elena Navarro; Perez, Julio; Riera, Lucia; Riera, Victor; Miguel, Daniel; del Rio, Ignacio; Garcia-Granda, Santiago. Revista: *Chemistry--A European Journal* ,Año: **2004**, Volumen: 10, Página inicial: 1765.
- 2.- A neutral organometallic fluoro complex can be a good ligand. Autores: Coue, Laurent; Cuesta, Luciano; Morales, Dolores; Halfen, Jason A.; Perez, Julio; Riera, Lucia; Riera, Victor; Miguel, Daniel; Connolly, Neil G.; Boonyuen, Supakorn. Revista: *Chemistry--A European Journal* ,Año: **2004**, Volumen: 10 ,Página inicial: 1906.
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- 5.- Reactivity of Molybdenum and Rhenium Hydroxo Complexes toward Organic Electrophiles: Reactions that Afford Carboxylato Products. Autores: Cuesta, Luciano; Hevia, Eva; Morales, Dolores; Perez, Julio; Riera, Lucia; Miguel, Daniel. Revista: *Organometallics* Año: **2006** Volumen: 25 Página inicial: 1717.
- 6.- Electronic Structure and Excited States of Rhenium(I) Amido and Phosphido Carbonyl-Bipyridine Complexes Studied by Picosecond Time-Resolved IR Spectroscopy and DFT Calculations. Autores: Gabrielsson, Anders; Busby, Michael; Matousek, Pavel; Towrie, Michael; Hevia, Eva; Cuesta, Luciano; Perez, Julio; Zalis, Stanislav; Vlcek, Antonin, Jr. Revista: *Inorganic Chemistry* .Año: **2006**. Volumen: 45, Página inicial: 9789.
- 7.- Synthesis, Structure, and Reactivity of Mononuclear Re(I) Oximato Complexes. Autores: Cuesta, Luciano; Huertos, Miguel A.; Morales, Dolores; Perez, Julio; Riera, Lucia; Riera, Victor; Miguel, Daniel; Menendez-Velazquez, Amador; Garcia-Granda, Santiago. Revista: *Inorganic Chemistry*, Año: **2007**, Volumen: 46, Página inicial: 2836.

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<b>Autor: Sonia Nieto Alonso</b>
<b>Título: Complejos de metales de transición como receptores de aniones.</b>
<b>Fecha lectura: 13/06/2006</b>

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Autores: Nieto, Sonia; Perez, Julio; Riera, Victor; Miguel, Daniel; Alvarez, Celedonio. Revista: *Chemical Communications* Año: **2005**, Volumen: Página inicial: 456.

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Autores: Perez, Julio; Morales, Dolores; Nieto, Sonia; Riera, Lucia; Riera, Victor; Miguel, Daniel. Revista: *Dalton Transactions* Año: **2005** Volumen: Página inicial: 884.

3.- Pyrazole complexes as anion receptors.

Autores: Nieto, Sonia; Perez, Julio; Riera, Lucia; Riera, Victor; Miguel, Daniel. Revista: *Chemistry--A European Journal* Año: **2006** Volumen: 12 Página inicial: 2244.

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Autores: Nieto, Sonia; Perez, Julio; Riera, Lucia; Riera, Victor; Miguel, Daniel; Golen, James A.; Rheingold, Arnold L. Revista: *Inorganic Chemistry* Año: **2007** Volumen: 46 Página inicial: 3407.

8.- Metal complexes with two different hydrogen bond donor ligands as anion hosts.

Autores: Nieto, Sonia; Perez, Julio; Riera, Lucia; Riera, Victor; Miguel, Daniel. Revista: *Chem. Commun.* Año: **2009**, Página inicial: 3279.

<b>Autor: Marta Pérez Gonzalo</b>
<b>Título: Coordinación y reactividad de ligandos de difosfinocetiminina</b>
<b>Fecha lectura: 16/06/2006</b>

### **Publicaciones**

- 1.- New approach to sulfonated diphosphine complexes: synthesis and amphoteric behaviour of zwitterionic  $[\text{Mn}+(\text{CO})_4(\text{PPh}_2)_2\text{C}(\text{H})\text{SO}_3^-]$   
J. Ruiz, M. Ceroni, M. Vivanco, M. P. Gonzalo, S. García-Granda, F. van der Maelen . *Chemical Communications* **2005**, 4860.
- 2.- Generation of N-Heterocyclic Carbenes by Metal-Mediated Coupling of Propargylamine and Isocyanides.  
J. Ruiz, G. García, M. E. G. Mosquera, B. F. Perandones, M. P. Gonzalo, M. Vivanco. *Journal of the American Chemical Society* **2005**, 127, 8584.
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<b>Autor: Carmen Concellón Fernández</b>
<b>Título: Reacciones altamente selectivas de deuteración, yodólisis, creación de enlaces C-C y secuenciales promovidas por diyodurio de samario.</b>
<b>Fecha lectura: 23/06/2006</b>

### Publicaciones

- 1.- “Deuteration of  $\alpha,\beta$ -Acetylenic Esters, Amides or Carboxylic Acids without Using Deuterium Gas: Synthesis of 2,2,3,3-Tetradeuterioesters, Amides or Acids”, J. M. Concellón, H. Rodríguez-Solla, C. Concellón, *Tetrahedron Lett.*, **2004**, *45*, 2129-2131.
- 2.- “Total Regioselective and Diastereospecific Iodolysis of 2,3-Epoxyamides Promoted by  $\text{SmI}_2$ : Synthesis of (2*R*\*,3*R*\*)- or (2*R*\*,3*S*\*)-2-Hydroxy-3-Iodoamides”, J. M. Concellón, E. Bardales, C. Concellón, S. García-Granda, M. R. Díaz, *J. Org. Chem.*, **2004**, *69*, 6923-6926.
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- 4.- “An Efficient Synthesis of 2-Bromo-3-hydroxyesters by Reaction of Ketones with Ethyl Dibromoacetate Promoted by Samarium Diiodide”, J. M. Concellón, C. Concellón, P. Díaz, *Eur. J. Org. Chem.*, **2006**, 2197-2200.
- 5.- “Direct Reaction of Dibromoacetic Acid with Aldehydes Promoted by Samarium Diiodide: An Easy, Efficient and Rapid Synthesis of (*E*)- $\alpha,\beta$ -Unsaturated Carboxylic Acids with Total Stereoselectivity”, J. M. Concellón, C. Concellón, *J. Org. Chem.*, **2006**, *71*, 1728-1731.
- 6.- “Aldol-type Reactions of Unmasked Iodoacetic Acid with Carbonyl Compounds Promoted by Samarium Diiodide: An Efficient Synthesis of Carboxylic 3-Hydroxyacids and their Derivatives”, J. M. Concellón, C. Concellón, *J. Org. Chem.*, **2006**, *71*, 4428-4432.
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10.- PATENTE

“Síntesis de 1-Bromo-1-nitroalcan-2-oles por reacción de bromonitrometano con aldehídos catalizada por yoduro de sodio”

Nº DE SOLICITUD: P200606927/4 PAÍS DE PRIORIDAD: España FECHA DE PRIORIDAD: 09/11/2006

ENTIDAD TITULAR: Universidad de Oviedo

<b>Autor: Maria Marco Arias</b>
<b>Título : Reacciones orgánicas promovidas por iones yodonio: Síntesis biomimética de yodohidrinas y <math>\alpha</math>-yodocetonas. Aplicación a la formación de enlaces carbono-carbono.</b>
<b>Fecha lectura: 18/07/2006</b>

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1.- Reaction of Alkenes with Hydrogen Peroxide and Sodium Iodide: A Nonenzymic Biogenic-Like Approach to Iodohydrins. AUTORES: Barluenga, J.; Marco-Arias, M.; González-Bobes, F.; Ballesteros, A.; González, J. M. REVISTA/AÑO/VOL/PAGINA INICIAL: *Chem. Eur. J.*, **2004**, *10*, 1677-1682

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<b>Autor: Almudena González Álvarez</b>
<b>Título: Síntesis de nuevos azamacrociclos ópticamente activos. Aplicaciones en reconocimiento molecular.</b>
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<b>Autor: Pablo García Álvarez</b>
<b>Título: Síntesis y reactividad de clusters carbonílicos de rutenio de alta nuclearidad derivados de 2 aminopiridinas.</b>
<b>Fecha lectura: 01/12/2006</b>

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- 1.- Hexaruthenium cluster complexes of basal edge-bridged square pyramidal metallic skeleton. First efficient synthesis and reactivity studies.  
J.A. Cabeza, I. del Río, P. García-Álvarez, V. Riera, M. Suárez and S. García-Granda, *Dalton Trans.* **2003**, 2808-2809.
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J.A. Cabeza, I. del Río, P. García-Álvarez and D. Miguel, *Organometallics*, **2005**, 24, 665-674.
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J.A. Cabeza, I. del Río, P. García-Álvarez and D. Miguel, *J. Organomet. Chem.*, **2007**, *692*, 3583-3587.

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<b>Autor: Daniel García Vivó</b>
<b>Título : Síntesis y reactividad de complejos metoxycarbino del grupo 6 con enlaces metal-metal.</b>
<b>Fecha lectura: 15/12/2006</b>

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- 1.- "Formation and cleavage of C-C, C-O, and O-H bonds involving methoxycarbyne and hydroxycarbyne ligands at unsaturated dimolybdenum complexes". C. M. Alvarez, M. A. Alvarez, M. E. García, D. García-Vivó y M. A. Ruiz *Organometallics* **2005**, 24, 4122.
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