

**Catalysis Today. Special Issue devoted to the ICP Anniversaries 2015**

*"The origin of the Instituto de Catálisis y Petroleoquímica (ICP, Institute of Catalysis and Petroleum Chemistry) of the Spanish National Research Council and its relationship with the development of catalysis in Spain"*, Joaquin Pérez Pariente, Javier Soria Ruiz, Juan Francisco García de la Banda.

DOI: <http://dx.doi.org/10.1016/j.cattod.2015.04.041>

*"H<sub>2</sub>/D<sub>2</sub> isotopic exchange: A tool to characterize complex hydrogen interaction with carbonsupported ruthenium catalysts"*, Francisco R. Garcia-Garcia, Nicolas Bion, Daniel Duprez, Inmaculada Rodriguez-Ramos, Antonio Guerrero-Ruiz.

DOI: <http://dx.doi.org/10.1016/j.cattod.2015.03.014>

*"Quantitative determination of surface species and adsorption sites using Infrared spectroscopy"*, James A. Anderson, Alan J. McCue, Greg Mutch, Andrew McNab, Steven Campbell.

DOI: <http://dx.doi.org/10.1016/j.cattod.2015.03.039>

*"Improved stability of Ni/Al<sub>2</sub>O<sub>3</sub> catalysts by effect of promoters (La<sub>2</sub>O<sub>3</sub>, CeO<sub>2</sub>) for ethanol steam reforming reaction"*, Paula Osorio-Vargas, Nicolás Flores-González, Rufino Navarro, Jose L.G. Fierro, Cristian H. Campos, Patricio Reyes.

DOI: <http://dx.doi.org/10.1016/j.cattod.2015.04.037>

*"Cr/SiO<sub>2</sub> mesoporous catalysts: Effect of hydrothermal treatment and calcination temperature on the structure and catalytic activity in the gas phase dehydration and dehydrogenation of cyclohexanol"*, Pablo M. Cuesta Zapata, Marcelo S. Nazzarro, Elio E. Gonzo, Mónica L. Parentis, Norberto Alejandro Bonini.

DOI: <http://dx.doi.org/10.1016/j.cattod.2015.04.038>

*"Catalytic and physicochemical properties of modified natural clinoptilolite"*, Anna Dziejdzicka, Bogdan Sulikowski, Małgorzata Ruggiero-Mikołajczyk.

DOI: <http://dx.doi.org/10.1016/j.cattod.2015.04.039>

*"Epoxidation of olefins with oxygen/isobutyraldehyde over transition-metal-substituted phosphomolybdic acid on SBA-15"*, Mingjun Jia, Xiaojing Song, Wanchun Zhu, Kaige Li, Jing Wang, Huiling Niu, Hongcheng Gao, Wenxiu Gao, Wenxiang Zhang, Jihong Yu.

DOI: <http://dx.doi.org/10.1016/j.cattod.2015.04.042>

*"Advanced characterization of immobilized enzymes as heterogeneous biocatalysts"*, Juan M. Bolivar, Ingrid Eisl, Bernd Nidetzky.

DOI: <http://dx.doi.org/10.1016/j.cattod.2015.05.004>

*"Interplay of Theoretical Calculations and Experiments for a study of Catalysis by Gold"*, Mitsutaka Okumura, Masatake Haruta.

DOI: <http://dx.doi.org/10.1016/j.cattod.2015.05.006>

*"A reaction engineering approach to kinetic analysis of photocatalytic reactions in slurry systems"*, Giovanni Camera Roda, Vincenzo Augugliaro, Antonio G. Cardillo, Vittorio Loddo, Leonardo Palmisano, Francesco Parrino, Francesco Santarelli.

DOI: <http://dx.doi.org/10.1016/j.cattod.2015.05.007>

*"Three-dimensional 10-ring Zeolites: The Activities in Toluene Alkylation and Disproportionation"*, Martin Kubů, Naděžda Žilková, Stacey I. Zones, Cong-Yan Chen, Sulaiman Al-Khataf, Jiri Cejka.

DOI: <http://dx.doi.org/10.1016/j.cattod.2015.05.019>

*"Chemical amination of lipases improves their immobilization on octyl-glyoxyl agarose beads"*, Nazzoly Rueda, Jose C.S. Dos Santos, Claudia Ortiz, Oveimar Barbosa; Roberto Fernández-Lafuente, Rodrigo Torres.

DOI: <http://dx.doi.org/10.1016/j.cattod.2015.05.027>

*"Enhanced methylcyclohexane dehydrogenation to toluene over Ir/USY catalyst"*, Duncan K. Cromwell, Palligarnai T. Vasudevan, Barbara Pawelec, Jose Luis G. Fierro.

DOI: <http://dx.doi.org/10.1016/j.cattod.2015.05.030>

*"Immobilization and stabilization of an endoxylanase from Bacillus subtilis (XynA) for xylooligosaccharides (XOs) production"*, Thais S.S. Milessi, Willian Kopp, Mayerlenis J. Rojas, Anny Manrich, Alvaro Baptista-Neto, Paulo W. Tardioli, Roberto C. Giordano, Roberto Fernandez-Lafuente, Jose M. Guisan, Raquel L.C. Giordano.

DOI: <http://dx.doi.org/10.1016/j.cattod.2015.05.032>

*"Influence of the support on the catalytic performance of Mo, CoMo, and NiMo catalysts supported on Al<sub>2</sub>O<sub>3</sub> and TiO<sub>2</sub> during the HDS of thiophene, dibenzothiophene, or 4,6-dimethyldibenzothiophene"*, Perla Castillo-Villalón, Jorge Ramirez, Rogelio Cuevas, Pamela Vazquez, Rocío Castañeda.

DOI: <http://dx.doi.org/10.1016/j.cattod.2015.06.008>

*"Effect of support composition on the origin and reactivity of carbon formed during dry reforming of methane over 5 wt% Ni/Ce<sub>1-x</sub>M<sub>x</sub>O<sub>2-δ</sub> (M=Zr<sup>4+</sup>, Pr<sup>3+</sup>) catalysts"*, Maria M. Makri, Michalis A. Vasiliades, Klito C. Petalidou, Angelos M. Efstathiou.

DOI: <http://dx.doi.org/10.1016/j.cattod.2015.06.010>

*"Development of an active, selective and durable water-gas shift catalyst for use in membrane reactors"*, Eduardo A. Lombardo, Carolina Cornaglia, John F. Múnera.

DOI: <http://dx.doi.org/10.1016/j.cattod.2015.06.015>

*"Immobilization of Alcaligenes sp. lipase as catalyst for the transesterification of vegetable oils to produce biodiesel"*, Lorena Soler, Andrés Illanes, Lorena Wilson

DOI: <http://dx.doi.org/10.1016/j.cattod.2015.06.025>

*“Understanding the growth of RuO<sub>2</sub> colloidal nanoparticles over a solid support: An Atomic Force Microscopy study”*, Camila Alejandra Fernández, Chiara Pezzotta, Gijo Raj, Eric M. Gaigneaux, Patricio Ruiz.

DOI: <http://dx.doi.org/10.1016/j.cattod.2015.06.026>

*“Determination of formate decomposition rates and relation to product formation during CO hydrogenation over supported cobalt”*, Davide Lorito, Anaëlle Paredes-Nunez, Claude Mirodatos, Yves Schuurman, Frederic Christian Meunier.

DOI: <http://dx.doi.org/10.1016/j.cattod.2015.06.027>

*“Development of an immobilized biocatalyst based on Bacillus psychrosaccharolyticus NDT for the preparative synthesis of trifluridine and decytabine”*, Alba Fresco-Taboada, Immacolata Serra, Miguel Arroyo, Jesus Fernández-Lucas, Isabel de la Mata, Marco Terreni.

DOI: <http://dx.doi.org/10.1016/j.cattod.2015.06.032>

*“Direct Oxidative Transformation of Glycerol to Acrylic Acid over Nb-based Complex Metal Oxide Catalysts”*, Kaori Omata, Keeko Matsumoto, Toru Murayama, Wataru Ueda.

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*“A promoting effect of dilution of Pd sites due to gold surface segregation under reaction conditions on supported Pd-Au catalysts for the Selective Hydrogenation of 1,5-Cyclooctadiene”*, Avelino Corma, Patricia Concepción, Saray Garcia, Juan Carlos Hernandez-Garrido, Jose Juan Calvino.

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*“Catalytic oxidation of aqueous sulfide in the presence of ferrites (MFe<sub>2</sub>O<sub>4</sub>, M=Fe, Cu, Co)”*, Igor T. Cunha, Ivo F. Teixeira, Adriana S. Albuquerque, José D. Ardisson, Waldemar A. Macedo, Henrique S. Oliveira, Juliana C. Tristão, Karim Sapag, Rochel Montero Lago.

DOI: <http://dx.doi.org/10.1016/j.cattod.2015.07.023>

*“Photocatalytic Hydrophobic Concrete Coatings to Combat Air Pollution”*, Marisol Faraldos, Ramsey Kropp, Marc A Anderson, Konstantin Sobolev.

DOI: <http://dx.doi.org/10.1016/j.cattod.2015.07.025>

*“Partial oxidation of hydrogen sulphide to sulphur over vanadium oxides bronzes”*, M.D. Soriano, A. Vidal-Moya, E. Rodríguez-Castellón, F.V. Melo, T. Blasco, José M. Lopez Nieto.

DOI: <http://dx.doi.org/10.1016/j.cattod.2015.08.009>