



## Contents

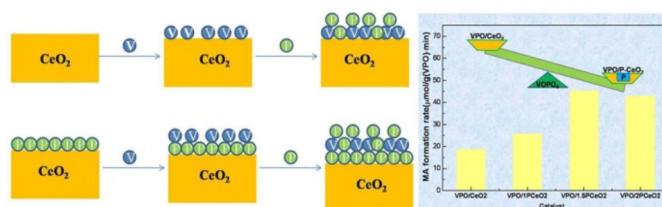
### Regular Papers

**Hua-Yi Wu, Peng Jin, Yi-fei Sun, Mei-Hua Yang, Chuan-jing Huang, Wei-Zheng Weng, Hui-Lin Wan**

*Journal of Molecular Catalysis A: Chemical 414 (2016) 1*

Enhancing catalytic performance of phosphorus-modified ceria supported VPO catalysts for *n*-butane oxidation

• VPO/CeO<sub>2</sub> and VPO/P-CeO<sub>2</sub> catalysts have been firstly synthesized for selective oxidation of *n*-butane. • The nature of the support has a great influence on the structure and property of VPO. • VPO/P-CeO<sub>2</sub> showed higher catalytic performance than bulk VPO and VPO/CeO<sub>2</sub>.

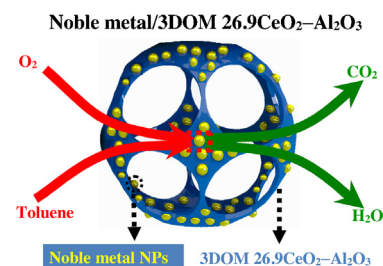


**Huanggen Yang, Jiguang Deng, Yuxi Liu, Shaohua Xie, Zhixing Wu, Hongxing Dai**

*Journal of Molecular Catalysis A: Chemical 414 (2016) 9*

Preparation and catalytic performance of Ag, Au, Pd or Pt nanoparticles supported on 3DOM CeO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> for toluene oxidation

• 3DOM CeO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> with ordered mesopore walls is fabricated via the PMMA-templating route. • 3DOM 26.9CeO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> displays a bimodal macro/mesoporous architecture. • 3DOM 26.9CeO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> supported noble metal is prepared via the polymer-protective reduction. • 0.27Pt/3DOM 26.9CeO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> performs the best in toluene oxidation. • O<sub>2</sub> ads content, reducibility, and noble metal–support interaction govern the catalytic activity.

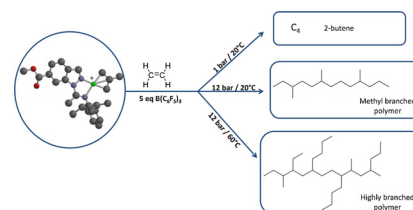


**Alan R. Cabrera, Ivan Martinez, Constantin G. Daniliuc, Griselda B. Galland, Cristian O. Salas, Rene S. Rojas**

*Journal of Molecular Catalysis A: Chemical 414 (2016) 19*

New air stable cationic methallyl Ni complexes bearing imidoyl-indazole carboxylate ligand: Synthesis, characterization and their reactivity towards ethylene

• Design and synthesis of three neutral *N,N* imidoyl-indazole methoxycarbonyl ligands. • Synthesis and characterization of air-stable [(methallyl)Ni(*N,N*)]B(Ar')<sub>4</sub> complexes. • Study of ethylene polymerization with Ni-complexes and B(C<sub>6</sub>F<sub>5</sub>)<sub>3</sub>. • Polymerization products strongly depended of the complex and reaction conditions.

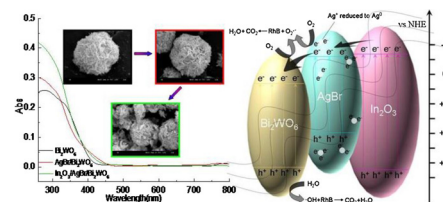


**Xi Chen, Li Li, Wenzhi Zhang, Yixuan Li, Qiang Song, Jianqi Zhang, Di Liu**

*Journal of Molecular Catalysis A: Chemical* 414 (2016) 27

Multi-pathway photoelectron migration in globular flower-like  $\text{In}_2\text{O}_3/\text{AgBr}/\text{Bi}_2\text{WO}_6$  synthesized by microwave-assisted method with enhanced photocatalytic activity

• The  $\text{In}_2\text{O}_3/\text{AgBr}/\text{Bi}_2\text{WO}_6$  was successfully synthesized under microwave irradiation. • The as-prepared  $\text{In}_2\text{O}_3/\text{AgBr}/\text{Bi}_2\text{WO}_6$  displays well flower-like spherical structure. •  $\text{In}_2\text{O}_3/\text{AgBr}/\text{Bi}_2\text{WO}_6$  performs the highest photocatalytic activities to degrade RhB. • The multi-pathway photoelectron migration inhibits the recombination of electron-hole pairs.

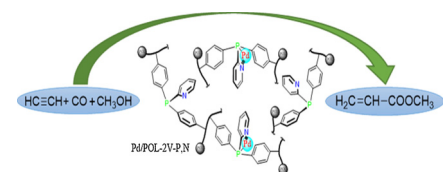


**Xingkun Chen, Hejun Zhu, Tao Wang, Cunyao Li, Li Yan, Miao Jiang, Jia Liu, Xueping Sun, Zheng Jiang, Yunjie Ding**

*Journal of Molecular Catalysis A: Chemical* 414 (2016) 37

The 2V-P,N polymer supported palladium catalyst for methoxycarbonylation of acetylene

• 2-PyPPh<sub>2</sub> ligand based porous organic polymer (POL-2V-P,N) was successfully synthesized. • The Pd/POL-2V-P,N catalyst exhibits higher activity than the corresponding homogeneous complex. • The reused catalyst exhibited similar activity as that of the fresh catalyst.

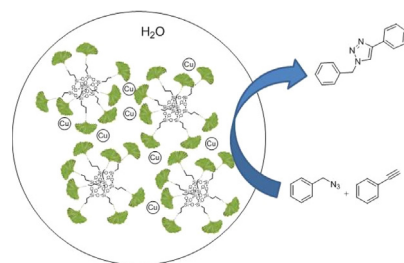


**Ali Akbari, Nasser Arsalani, Mojtaba Amini, Esmail Jabbari**

*Journal of Molecular Catalysis A: Chemical* 414 (2016) 47

Cube-octameric silsesquioxane-mediated cargo copper Schiff base for efficient click reaction in aqueous media

• Copper(II)–polyhedral oligomeric silsesquioxane (POSS)–bridged Schiff base was synthesized. • Excellent yield has been achieved. • Recoverability and reusability of catalyst was studied.

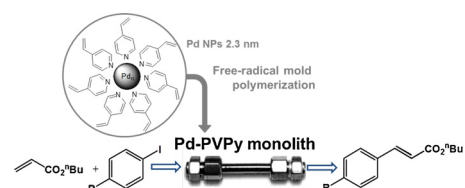


**Ravindra P. Jumde, Marcello Marelli, Nicola Scotti, Alessandro Mandoli, Rinaldo Psaro, Claudio Evangelisti**

*Journal of Molecular Catalysis A: Chemical* 414 (2016) 55

Ultrafine palladium nanoparticles immobilized into poly(4-vinylpyridine)-based porous monolith for continuous-flow Mizoroki–Heck reaction

• Porous monoliths containing highly dispersed Pd nanoparticles. • SEM and TEM microscopies of very small Pd NPs across the monolith. • Efficient catalysts for Mizoroki–Heck cross-coupling reactions under continuous-flow conditions.



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