**References**

1. Aicheng Chen and Cassandra Ostrom Palladium-Based Nanomaterials: Synthesis and Electrochemical Applications, *Chem. Rev.,* **2015**, 115, 11999−12044
2. Gang Li, Yun Li, Zhengdong Wang, Huihong Liu, Green synthesis of palladium nanoparticles with carboxymethyl cellulose for degradation of azo-dyes Materials, *Chemistry and Physics* 187 (**2017**) 133e140
3. Sebastiano Campisi, Marco Schiavoni, Carine Edith Chan-Thaw and Alberto Villa, Untangling the Role of the Capping Agent in Nanocatalysis: *Recent Advances and Perspectives Catalysts,* **2016**, 6, 185; doi:10.3390/catal6120185
4. Sang Chul Jung, Young-Kwon Park, Ho-Young Jung, and Sang Chai Kim, Effect of Stabilizing Agents on the Synthesis of Palladium Nanoparticles, *J. Nanosci. Nanotech*., **2017**, Vol 17, No.4
5. Feng He, Dongye Zhao, Juncheng Liu, and Christopher B. Roberts, Stabilization of Fe-Pd Nanoparticles with Sodium Carboxymethyl Cellulose for Enhanced Transport and Dechlorination of Trichloroethylene in Soil and Groundwater, *Ind. Eng. Chem. Res*. **2007**, 46, 29-34
6. Ling Zhang, Wenxin Niu, Zhiyuan Lic and Guobao Xua, Facile synthesis and electrochemiluminescence application of concave trisoctahedral Pd@Au core-shell nanocrystals bound by {331} high-index facets Electronic Supplementary Material (ESI) for Chemical Communications This journal is © *The Royal Society of Chemistry* **2011**
7. Jinlong Xiao, Zhangxiu Lu, and Yiqun Li, Carboxymethylcellulose-Supported Palladium Nanoparticles Generated in Situ from Palladium (II) Carboxymethylcellulose: An Efficient and Reusable Catalyst for Suzuki−Miyaura and Mizoroki− Heck Reactions, *Ind. Eng. Chem. Res*., **2015**, 54, 790−797
8. Sang-Wook Kim, Jongnam Park, Youngjin Jang, Yunhee Chung, Sujin Hwang, and Taeghwan Hyeon, Synthesis of Monodisperse Palladium Nanoparticles, *nano letters,* **2003,** Vol. 3, No. 9 1289-1291
9. James Cookson, The Preparation of palladium nanoparticles *Platinum Metals Rev*., **2012**, 56, (2), 83-98

(10) Parimala and J. Santhanalakshmi, Studies on Iron nanoparticles catalyzed reduction of substituted aromatic ketones to alcohols, *Journal of nanoparticles* **2014**

(11) Viet Long Nguyen, Duc Chien Nguyen, Hirohito Hirata, Michitaka Ohtaki, Tomokatsu Hayakawa1 and Masayuki Nogami, Chemical synthesis and characterization of palladium nanoparticles Advances in Natural Sciences*: Nanoscience and Nanotechnology*, **2010** Volume 1, Number 3

(12) Fan F. R, Liu D. Y, Wu Y. F, Duan S, Xie Z. X, Jiang Z. Y, Tian Z. Q, Epitaxial growth of heterogeneous metal nanocrystals: from gold nano-octahedra to palladium and silver nanocubes, *J. Am. Chem. Soc*., **2008** Jun 4;130(22):6949-51

(13) Nikhil R. Jana, Z. L. Wang, and Tarasankar Pal, Redox Catalytic Properties of Palladium Nanoparticles:  Surfactant and Electron Donor−Acceptor Effects, *Langmuir*, **2000**, 16 (6), pp 2457–2463

(13) X.D. Wu, C.H. Lu, W. Zhang, G.P. Yuan, R. Xiong, X.X. Zhang, A novel reagentless approach for synthesizing cellulose nanocrystal-supported palladium nanoparticles with enhanced catalytic performance, *J. Mater. Chem*. A 1 (**2013**), 8645-8652.

(14) F.R. Chen, M.M Huang, Y.Q. Li, Synthesis of a novel cellulose micro-encapsulated palladium nanoparticle and its catalytic activity in Suzuki-miyaura and mizoroki-heck reactions, *Ind. Chem. Res.,* 53, (**2014**), 8339-8345.

(15) Vliet, Dennis Franciscus van der, Fuel cell electrocatalysis: Oxygen reduction on Pt-based nanoparticle catalyst, **2010**

(16) Feng He, Dongye Zhao, Juncheng Liu, and Christopher B. Roberts, Stabilization of Fe-Pd Nanoparticles with Sodium Carboxymethyl Cellulose for Enhanced Transport and Dechlorination of Trichloroethylene in Soil and Groundwater, *Ind. Eng. Chem. Res.,* **2007,** 46, 29-34

(16) Feng He, Juncheng Liu, Christopher B. Roberts, and Dongye Zhao, One-Step “Green” Synthesis of Pd Nanoparticles of Controlled Size and Their Catalytic Activity for Trichloroethene Hydrodechlorination, *Ind. Eng. Chem. Res.,* **2009**, 48, 6550–6557

(17) Sanjay Kumar Singh, Yasuo Iizuka, Qiang Xu, Nickel-palladium nanoparticle catalyzed hydrogen generation from hydrous hydrazine for chemical hydrogen storage, *International journal of hydrogen energy* 36 **(2011)** 11794-11801

(18) Deborah B. Bacik, Man Zhang, Dongye Zhao, Christopher B. Roberts, Mohinar S. Seehra, Vivek Singh and Naresh Shah, Synthesis and characterization of supported polysugar-stabilized palladium nanoparticle catalysts for enhanced hydrodechlorination of trichloroethylene, *Nanotechnology* 23 **(2012)** 294004

(19) Feng He and Dongye Zhao, Manipulating the Size and Dispersibility of Zerovalent Iron Nanoparticles by Use of Carboxymethyl Cellulose Stabilizers, *Environ. Sci. Technol.* **2007**, 41, 6216-6221

(20) Wenzhen Li, Pradeep Haldar, Supportless PdFe nanorods as highly active electrocatalyst for proton exchange membrane fuel cell, *Electrochemistry Communications* **2009**, 11, 1195–1198

(21) Feng He, Dongye Zhao, Juncheng Liu and Christopher B. Roberts, Stabilization of Fe-Pd Nanoparticles with Sodium Carboxymethyl Cellulose for Enhanced Transport and Dechlorination of Trichloroethylene in Soil and Groundwater, *Ind. Eng. Chem. Res.* **2007**, 46, 29-34