

## Peer-Reviewed Publications 2010

Best, Q.A.; Xu, R.; **McCarroll, M.E.; Wang, L.; Dyer, D.J. (2010)** Design and Investigation of a Series of Rhodamine-Based Fluorescent Probes for Optical Measurements of pH. *Org. Lett.* 12, 3219-3221.

Connelly, Helen and **Means, J.C. (2010)** Immuno-modulatory Effects of Dietary Exposure to Selected Polycyclic Aromatic Hydrocarbons in Bluegill (*Lepomis macrochirus*). *Intern J Toxicol.* 29: 532-545.

**Davis, J.M.;** Arriaga, E.A. "Prediction of Migration-time and Mobility Distributions in Organelle Capillary Electrophoresis with Statistical-Overlap Theory", *Anal. Chem.* (2010), 82, 307-315.

Gato, WE, and **Means, J.C. (2010).** Elevated and Prolonged Lead Exposure in Fisher 344 Rats Leads to Marked Hepatic Differentially Expressed Genes. The Internet Journal of Genomics and Proteomics. Volume 5 Number 2.

Hudson, G.A.; Cheng, L.; Yu, J.; Yan, Y.; **Dyer, D.J.; McCarroll, M.E; Wang, L. (2010).** Computational Studies on Response and Binding Selectivity of Fluorescence Sensors. *J. Phys. Chem. B* 114, 870-876.

Hudson, G. A.; Li, J.; **Wang, L. (2010).** Impact of cooling rate on the morphology of coalescence silver nanoparticles. *Chem. Phys. Lett.* 498, 151-156.

Jemal, Ahmedin; Barker, Steven A. and **Means, Jay C. (2010).** Dose-Response Relationship, Kinetics of Formation and Persistence of S-[2-(N<sup>7</sup>-guanyl)-ethyl]glutathione DNA Adduct in Livers of Channel Catfish (*Ictalurus punctatus*) Exposed in vivo to Ethylene Dichloride. *Environ. Toxicol. Chem.* 29:1573-1544

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Li, Xuelian.; **Kohli, Punit** "Investigating Molecular Interactions in Biosensors Based on Fluorescence Resonance Energy Transfer" *J. Phys. Chem. C.* (2010), 114, 6255-6264.

Liu J.; Yu, J. & **Ge. Q. (2010)** Transition-Metal-Doped Aluminum Hydrides as Building Blocks for Supramolecular Assemblies, *J. Phys. Chem. A* 114, 12318.

Magnusson, L-E.; Anisimov, M. P. and **Koropchak, J. A.** "Evidence for sub-3 nanometer neutralized particle detection using glycerol as a condensing fluid" *J. of Aerosol Sci.*, 41,637-654, (2010).

Mei, D.; Kwak, J.H.; Szanyi, J.; **Ge, Q.** & Peden, C.H.F. (2010). Catalyst size and morphological effects on the interaction of NO<sub>2</sub> with BaO/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> materials, *Catalysis Today*, 151, 304.

Pan, Y.; Liu, C.-j.; Mei, D.; & **Ge, Q.** (2010). Effect of Hydration and Oxygen Vacancy on CO<sub>2</sub> Adsorption and Activation on  $\beta$ -Ga<sub>2</sub>O<sub>3</sub>(100), *Langmuir*, 26, 5551.

Pan, Y.; Kui, P.; Liu, Y.; **Ge, Q.** & Liu, C.-J. (2010). Promotion effects of Ga<sub>2</sub>O<sub>3</sub> on CO<sub>2</sub> adsorption and conversion over a SiO<sub>2</sub>-supported Ni catalyst, *Energy Environ. Sci.* 3, 1322.

Pan, Y.; Liu, C.-j.; & **Ge, Q.** (2010). Effect of Surface Hydroxyls on Selective CO<sub>2</sub> Hydrogenation over Ni<sub>4</sub>/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub>: A Density Functional Theory Study, *J. Catal.* 272, 227.

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**Scott, C. N.**; Wilcox, C. S. (2010). A Mild Synthesis of Unsymmetrical Bis-Alkoxysilanes through Catalyzed Alcoholysis of Hydridosilanes Containing C-C Multiple Bonds and Aryl Halides." *J. Org. Chem.* 2010, 75, 253–256.

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Whiting, N., Nikolaou, P., Eschmann, N., Barlow, M., **Goodson, B.M.** (2010). Interdependence of Xenon Density and Temperature on Rb/<sup>129</sup>Xe Optical Pumping Efficiency at High Xenon Densities. *J. Magn. Reson.*, published online Dec. 2.

Xu, Z.; Lu, S.; Li, J.; **Wang, L.** (2010). Artificial neural network method to construct potential energy surfaces for transition metal nanoparticles: Pt, Au, and Ag. *IEEE proceedings of 2010 Sixth International Conference on Natural Computation* 3, 1586-1589.

Zhou, Chuanhong; Ramiah Rajasekaran, Pradeep; Wolff, Justin; Li, Xuelian; **Kohli, Punit** "Photo-Pens: A Simple and Versatile Tool for Maskless Photolithography" *Langmuir* (2010), 26, 17726-17732 (DOI: 10.1021/la1028433).