

CHEM 4184

Name	Title	Literature Reference
Steve Berry	<ol style="list-style-type: none"> 1. Electron transfer mediators for solar cells based on structures of copper protein. 2. Industrial applications of the enzyme. 3. Copper trafficking in cells – a unique copper chaperone protein. 	<ol style="list-style-type: none"> 1. Journal of the American Chemical Society, (2005) 127, page 9648-9654 2. Cytochrome P450: TRENDS in biotechnology, vol 24, no 7, 2006, page 324-330 3. Inorganic Chemistry, (2005) 44, page 5203-5205
Robert Carlson	<ol style="list-style-type: none"> 1. Lactones: Generic Inhibitors of Enzymes? 2. Excipient functionality in Pharmaceuticals? 3. Creating Chirality. 	<ol style="list-style-type: none"> 1. Mini-Rev. Med. Chem., (5), 73-95 (2005). 2. Pharmaceut. Tech., (30), 50, (2006). 3. Nature, (443), 67, 2006.
John Evans	<ol style="list-style-type: none"> 1. Measurement of materials adsorbed from solution using a quartz crystal microbalance in a dissipation mode. 2. Preparation of surfaces for artificial implants. 3. Mass spectrometric analysis of explosives by desorption electrospray ionization. 4. Adsorption studies of peptides on hydrophobic vs hydrophilic surfaces. 	<ol style="list-style-type: none"> 1. Rev. Sci. Instrum. 66, 3924 (1995). 2. J. Polymer Sci. (A), Polymer Chem., 42, 5389 (2004). 3. Anal. Chem., 77, 6755 (2005). 4. J. Am Chem Soc., 128, 3598 (2006).
Joseph Johnson	<ol style="list-style-type: none"> 1. Internalization of exogenously added memapsin 2 (beta-secretase) ectodomain by cells is mediated by amyloid precursor protein. 2. Three novel alternatively spliced isoforms of the human beta-site amyloid precursor protein cleaving enzyme (BACE) and their effect on amyloid beta-peptide production. 3. Kinetics of Cerebral Amyloid Angiopathy Progression in a Transgenic Mouse Model of Alzheimer Disease. 4. A specific amyloid-[beta] protein assembly in the brain impairs memory. 	<ol style="list-style-type: none"> 1. J Biol Chem 2004 279 - 37886-37894 2. Neurosci Lett (2001) 307 - 9-12 3. J Neurosci (2006) 26 - 365-371 4. Nature 2006 440 - 352-357

Venkatram Mereddy	<ol style="list-style-type: none"> 1. Covalent bond in cancer chemotherapy. 2. Gleevac as a magic bullet for cancer chemotherapy. 3. Herceptin as a targeted agent for breast cancer treatment. 	
Victor Nemykin	<ol style="list-style-type: none"> 1. TIMELINE: Photodynamic therapy for cancer. 2. Soluble axially substituted phthalocyanines: synthesis and nonlinear optical response. 3. Giant porphyrin wheels with large electronic coupling as models of light-harvesting photosynthetic antenna. 	<ol style="list-style-type: none"> 1. Nature Reviews Cancer (2003), 3(5), 380-387. 2. Journal of Materials Science (2006), 41(8), 2169-2185. 3. Chemistry--A European Journal (2006), 12(5), 1319-1327.
Don Poe	<ol style="list-style-type: none"> 1. Isolation of functional ingredients from rosemary by preparative-supercritical fluid chromatography (Prep-SFC) 2. High-Speed Liquid Chromatography by Simultaneous Optimization of Temperature and Eluent Composition. 3. Determination of Enantiomeric Excess and Concentration of Unprotected Amino Acids, Amines, Amino Alcohols, and Carboxylic Acids by Competitive Binding Assays with a Chiral Scandium Complex 	<ol style="list-style-type: none"> 1. Journal of Pharmaceutical and Biomedical Analysis Nutraceuticals Analysis 41(5): 1606-1613 (2006). 2. Analytical Chemistry 74(16): 4150-4159 (2002). 3. J. Amer. Chem. Soc., ASAP article. Web Release Date: 14-Sep-2006; (Communication) DOI: 10.1021/ja0636486
Paul Siders	<ol style="list-style-type: none"> 1. 2NO+CO to N₂ O+CO₂ on iron oxide clusters. 2. Carbon phase diagram. 3. Photodegradation of methyl orange on TiO₂. 	<ol style="list-style-type: none"> 1. Physical Review Letters (2004), 93, (6), 068301/1-4. http://link.aps.org/abstract/PRL/v93/e068301 2. Proceedings of the National Academy of Sciences, (2006), 103, (5), 1204-1208. http://www.pnas.org/cgi/content/full/103/5/1204 3. Desalination (2005) 185 (1-3), 439-448. http://dx.doi.org/10.1016/j.desal.2005.04.049
Bilin Tsai	<ol style="list-style-type: none"> 1. Effects of Surface Oxygen Vacancies on Photophysical and Photochemical Processes of Zn-Doped TiO₂ Nanoparticles and Their Relationships. 2. Comparison of Hydrogen Bonding in 1-Octanol and 2-Octanol 	<ol style="list-style-type: none"> 1. J. Phys. Chem. B, / *110* (36), 17860 - 17865, 2006. 10.1021/jp063148z S1520-6106(06)03148-8 Web Release Date: August 23, 2006

	as Probed by Spectroscopic Techniques.	<p>(Copyright © 2006 American Chemical Society) http://pubs.acs.org/cgi-bin/article.cgi/jpcb/k/2006/110/i36/html/jp063148z.html#jp063148zAF1</p> <p>2. J. Phys. Chem. B, / *110* (36), 18017 - 18025, (2006) 10.1021/jp062614h S1520-6106(06)02614-9 *Web Release Date:* August 22, 2006 (Copyright © 2006 American Chemical Society)</p>
Joseph Werne	<ol style="list-style-type: none"> 1. Kinetics of pesticide degradation in natural systems 2. Effects of tributyltin contaminants on freshwater ecosystems 3. Potential oceanic uptake of atmospheric CO₂ 	<ol style="list-style-type: none"> 1. Environ. Sci. Technol., (2006) 40, 5428-5434 2. Environ. Sci. Technol., (2006) 40, 5269-5275 3. Elsevier, Marine Chemistry, 70 (2000), 105-119
Viktor Zhdankin	<ol style="list-style-type: none"> 1. Hypervalent Iodine Reagents in Organic Synthesis. Hypervalent iodine chemistry in synthesis: Scope and new directions. 2. Radical Azidation of Organic Compounds. Radical amination with sulfonyl azides: A powerful method for the formation of C-N bonds. 3. Alkynylxenon(II) compounds. Trifluoropropynylxenon(II) tetrafluoroborate [CF₃C≡C-Xe][BF₄] - isolation of an alkynylxenon(II) compound for the first time. 	<ol style="list-style-type: none"> 1. Angew. Chem. Int. Ed. (2005) 44, 3656-3665. 2. Chemistry--A European Journal (2004) 10, 3606-3614. 3. Chemical Communications (2003) (18), 2352-2353.

