

Dale L. Huber

Selected Nanoscience Related Publications

- Adolphi, N. L.; Huber, D. L.; Jaetao, J. E.; Bryant, H. C.; Lovato, D. M.; Fegan, D. L.; Venturini, E. L.; Monson, T. C.; Tessier, T. E.; Hathaway, H. J.; Bergemann, C.; Larson, R. S.; Flynn, E. R., Characterization of magnetite nanoparticles for SQUID-relaxometry and magnetic needle biopsy. *Journal of Magnetism and Magnetic Materials* 2009, 321 (10), 1459-1464.
- Martin, J. E.; Venturini, E. L.; Huber, D. L., Giant magnetic susceptibility enhancement in field-structured nanocomposites. *Journal of Magnetism and Magnetic Materials* 2008, 320 (18), 2221-2227.
- Huber, D. L., Iron Nanoparticles: Synthesis and Properties. In *Encyclopedia of Nanoscience and Nanotechnology*, Second Edition, 2008.
- Huber, D. L., Chemical safety - Hazardous reductions with metal hydrides. *Chemical & Engineering News* 2008, 86 (10), 6-6.
- Bunker, B. C.; Huber, D. L.; Kushmerick, J. G.; Dunbar, T.; Kelly, M.; Matzke, C.; Cao, J. G.; Jeppesen, J. O.; Perkins, J.; Flood, A. H.; Stoddart, J. F., Switching surface chemistry with supramolecular machines. *Langmuir* 2007, 23 (1), 31-34.
- Huber, D. L., Synthesis, properties, and applications of iron nanoparticles. *Small* 2005, 1 (5), 482-501.
- Seery, T. A. P.; Jordi, M.; Guino, R.; Huber, D. L., Characterization of Polymer Brushes on Nanoparticle Surfaces. In *Polymer Brushes*, Advincula, R. C., Ed. Wiley-VCH Verlag GmbH & Co: Weinheim, 2004.
- Huber, D. L.; Venturini, E. L.; Martin, J. E.; Provencio, P. P.; Patel, R. J., Synthesis of highly magnetic iron nanoparticles suitable for field structuring using a beta-diketone surfactant. *Journal of Magnetism and Magnetic Materials* 2004, 278 (3), 311-316.
- Huber, D. L.; Manginell, R. P.; Samara, M. A.; Kim, B. I.; Bunker, B. C., Programmed adsorption and release of proteins in a microfluidic device. *Science* 2003, 301 (5631), 352-354.
- Yim, H.; Kent, M. S.; Huber, D. L.; Satija, S.; Majewski, J.; Smith, G. S., Conformation of end-tethered PNIPAM chains in water and in acetone by neutron reflectivity. *Macromolecules* 2003, 36 (14), 5244-5251.
- Liu, J.; Lin, Y. H.; Liang, L.; Voigt, J. A.; Huber, D. L.; Tian, Z. R.; Coker, E.; Mckenzie, B.; Mcdermott, M. J., Templateless assembly of molecularly aligned conductive polymer nanowires: A new approach for oriented nanostructures. *Chemistry-a European Journal* 2003, 9 (3), 605-611.
- Bunker, B. C.; Huber, D. L.; Manginell, R. P.; Kim, B. I.; Boal, A. K.; Bachand, G. D.; Rivera, S. B.; Bauer, J. M.; Matzke, C., Incorporation of bioactive materials into integrated systems. *Nanofabrication Technologies* 2003, 5220, 28-36 118.