

2010 – Publications



Book Sections

Anandan, S., Madhavan, J., and Ashokkumar, M. (2010). "The contribution of the nanotechnology to hydrogen production." *Nanotechnology for the Energy Challenge*, J. Garcia-Martinez, ed., Wiley-VCH, Weinheim, Germany, 111-136.

Scholes, C. A., Kentish, S. E. and Stevens, G. W. (2010). "The effects of minor components on the gas separation performance of polymeric membranes for carbon capture." *Membrane Gas Separation*, Y. Yampolskii and B. Freeman, eds., John Wiley & Sons, Ltd, Chichester, UK., 201-226.

Journal Articles

Adachi, Y., Kobayashi, M., Fukasawa, T., and Scales, P. J. (2010). "Rheological properties of flocculated colloidal suspensions." *Journal of the Society of Powder Technology, Japan*, 47, 230-239. (in Japanese)

Anandan, S., Oh, S. D., Yoon, M., and Ashokkumar, M. (2010). "Photoluminescence properties of sonochemically synthesized gold nanoparticles for DNA biosensing." *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 76(2), 191-196.

Anderson, C. J., Tao, W., Jiang, J., Sandler, S. I., Stevens, G. W., and Kentish, S.E. (2010). "An experimental evaluation and molecular simulation of high temperature gas adsorption on nanoporous carbon." *Carbon*, 49, 117-125.

Arora, M., Eddy, N. K., Mumford, K. A., Baba, Y., Perera, J. M., and Stevens, G. W. (2010). "Surface modification of natural zeolite by chitosan and its use for nitrate removal in cold regions." *Cold Regions Science and Technology*, 62(2-3), 92-97.

Ashokkumar, M., Bhaskaracharya, R., Kentish, S., Lee, J., Palmer, M., and Zisu, B. (2010). "The ultrasonic processing of dairy products - An overview." *Dairy Science & Technology*, 90(2-3), 147-168.

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Becker, A. L., Johnston, A. P. R., and Caruso, F. (2010). "Layer-by-layer-assembled capsules and films for therapeutic delivery." *Small*, 6(17), 1836-1852. (Invited Review Article plus Cover Page)

Becker, A. L., Johnston, A. P. R., and Caruso, F. (2010). "Peptide nucleic acid films and capsules: Assembly and enzymatic degradation." *Macromolecular Bioscience*, 10(5), 488-495.

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Bonggotgetsakul, Y. Y. N., Ashokkumar, M., Catrall, R. W., and Kolev, S. D. (2010). "The use of sonication to increase extraction rate in polymer inclusion membranes. An application to the extraction of gold(III)." *Journal of Membrane Science*, 365(1-2), 242-247.

Brotchie, A., Grieser, F., and Ashokkumar, M. (2010). "Characterization of acoustic cavitation bubbles in different sound fields." *Journal of Physical Chemistry B*, 114(34), 11010-11016.

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