

Pubs for 2014-2015 Annual Report:

IRG1 Primary support

W. Wei, Y. Tan, N. Martinez, J. Yu, J.N. **Israelachvili**, J.H. **Waite**, “A mussel-derived one-component adhesive coacervate,” *Acta Biomaterialia* **10**, 1663-1670 (2014)

IRG3 Primary support

V. Agarwal, B. Peters, “Solute precipitate nucleation: A review of theory and simulation advances,” *Adv. Chem. Phys.* **155**, 97-285 (2014)

M.W. Gaultois, T.D. Sparks, “How much improvement in thermoelectric performance can come from reducing thermal conductivity?” *Appl. Phys. Lett.* **104**, 113906(1-4) (2014)

Seeds/Initiatives

Primary support

E.K. Peter, J.-E. Shea, “A hybrid MD-kMC algorithm for folding proteins in explicit solvent,” *Phys. Chem. Chem. Phys.* **16**, 6430-6440 (2014)

Facilities only

C.E. Dreyer, J.L. Lyons, A. Janotti, C.G. **Van de Walle**, “Band alignments and polarization properties of BN polymorphs,” *Appl. Phys. Express* **7**, 031001 (2014)

Y. Huang, J.-K. Yang, A.A. Keller, “Removal of arsenic and phosphate from aqueous solution by metal(hydr-)oxide coated sand,” *ACS Sustainable Chem. Eng.* **2**, 1128–1138 (2014)

T. Iwama, N. Laachi, K.T. Delaney, B. Kim, G.H. **Fredrickson**, “Computational studies of shape rectification in directed self-assembly,” *Proc. SPIE* **9049**, 904927 (2014) DOI 10.1117/12.2046187

K. Izumi, N. Laachi, X. Man, K.T. Delaney, G.H. **Fredrickson**, “Self-consistent field theory of directed self-assembly on chemically-prepatterned surfaces,” *Proc. SPIE* **9049**, 904922 (2014)

B. Kim, N. Laachi, K.T. Delaney, G.H. **Fredrickson**, “Directed self-assembly of diblock copolymers in laterally confining channels: Effect of rough surfaces on line-edge roughness (LER) and defectivity,” *Proc. SPIE* **9049**, 90491D (2014)

DOI 10.1117/12.2045774

N. Laachi, T. Iwama, K.T. Delaney, B. Kim, R. Bristol, D. Shykind, C.J. Weinheimer, G.H. **Fredrickson**, “Field-theoretic simulations of directed self-assembly in cylindrical confinement: Placement and rectification aspects,” *Proc. SPIE* **9049**, 90491M (2014) DOI 10.1117/12.2046472

