

### Morphology control of polymer microsphere using dispersion polymerization

오준석, 홍정표, 황태선, 홍승철, 김상훈, 남재도\*  
성균관대학교  
(jdnam@skku.edu\*)

Dispersion polymerization is a versatile technique to fabricate uniform-sized polymer microspheres with spherical shape. However, we have fabricated polymer microspheres with various shapes by using dispersion polymerization with slight modification. By simply controlling the ratio of the comonomers, various sizes of projections could be generated on the surface of the microsphere. The size of the polymer microspheres ranges from 2 to 5  $\mu\text{m}$  with projections of several hundred nanometers while maintaining the uniformity. The morphological changes of the surface of the polymer microspheres were investigated by scanning electron microscopy (SEM).