

### **302f Self-Assembled Radio Frequency (Rf) Shielded Non-Invasively Trackable Micro Containers**

*Timothy Leong, Barjor Gimi, Zhiyong Gu, Zaver Bhujwalla, and David H. Gracias*

This paper describes the parallel self-assembly of 200 micron scale perforated, metallic containers, with arbitrarily patterned faces, from 2D photolithographically patterned precursors. After self-assembly, the containers were filled with hydrogels, biological constituents or spherical beads that could be released by dissolution or agitation. The containers can be tracked in capillaries and microfluidic channels as a result of an RF shielding effect, providing a characteristic hypointensity within the microcontainer.