1050-35-100   **Yanyan Li*** (`yyli@math.rutgers.edu`), Department of Mathematics, Rutgers University, 110 Frelinghuysen Road, Piscataway, NJ 08854, and **Ellen ShiTing Bao** and **Biao Yin**. *Gradient Estimates for the Perfect Conductivity Problem.*

I will describe some joint works with Ellen ShiTing Bao and Biao Yin on the gradient estimates for the perfect conductivity problem. Some open problems will also be mentioned. (Received February 28, 2009)