Response to reviewing comments on manuscript nanomaterials-904985【3】

Title: A Numerical Investigation on the Collision Behavior of Unequal-sized Micro-nano Droplets

Authors: Lijuan Qian; Jingqi Liu; Hongchuan Cong; Fang Zhou and Fubing Bao

We send our great appreciation to editors and reviewers. The reviewers' careful work of review, good suggestions and pertinent comments are very helpful for improvements on our work.

All the changes made in the revised manuscript are highlighted in red type. The following contents are work we did for revision of the manuscript corresponding to the reviewing comments.

Point 3: In Figure 3, as authors cited figure from other work, please make sure you have obtained permission to reuse it.

Response 3: In Figure 3, the experimental figures have been published [Pan K L, Chou P C, Tseng Y J. Binary droplet collision at high Weber number. J. *Physical Review E*. **2009**, 80(3): 036301.]. In the present study, these experimental figures are used to verify the numerical simulation, which is permitted.