

Facile synthesis of diverse graphene nanomeshes based on simultaneous regulation of pore size and surface structure

Jia Zhang,^{1,2} Huaibing Song,³ Dawen Zeng,^{1,2*} Hao Wang,¹ Ziyu Qin,¹ Keng Xu,¹
Aimin Pang,⁴ and Changsheng Xie¹

¹) State Key Laboratory of Material Processing and Die & Mould Technology, Nanomaterials and Smart Sensors Research Laboratory, Department of Materials Science and Engineering, Huazhong University of Science and Technology, Wuhan 430074, PR China.

²) Hubei Collaborative Innovation Center for Advanced Organic Chemical Materials, Wuhan 430062, PR China.

³) Wuhan National Laboratory for Optoelectronics (WNLO), Huazhong University of Science and Technology, Wuhan 430074, PR China.

⁴) Hubei Institute of Aerospace Chemotechnology, No. 58, Qinghe Road, Xiangyang 441003, PR China.

* Corresponding author: E-mail: dwzeng@mail.hust.edu.cn; Fax: +86-027-87543778; Tel: +86-027-87559835

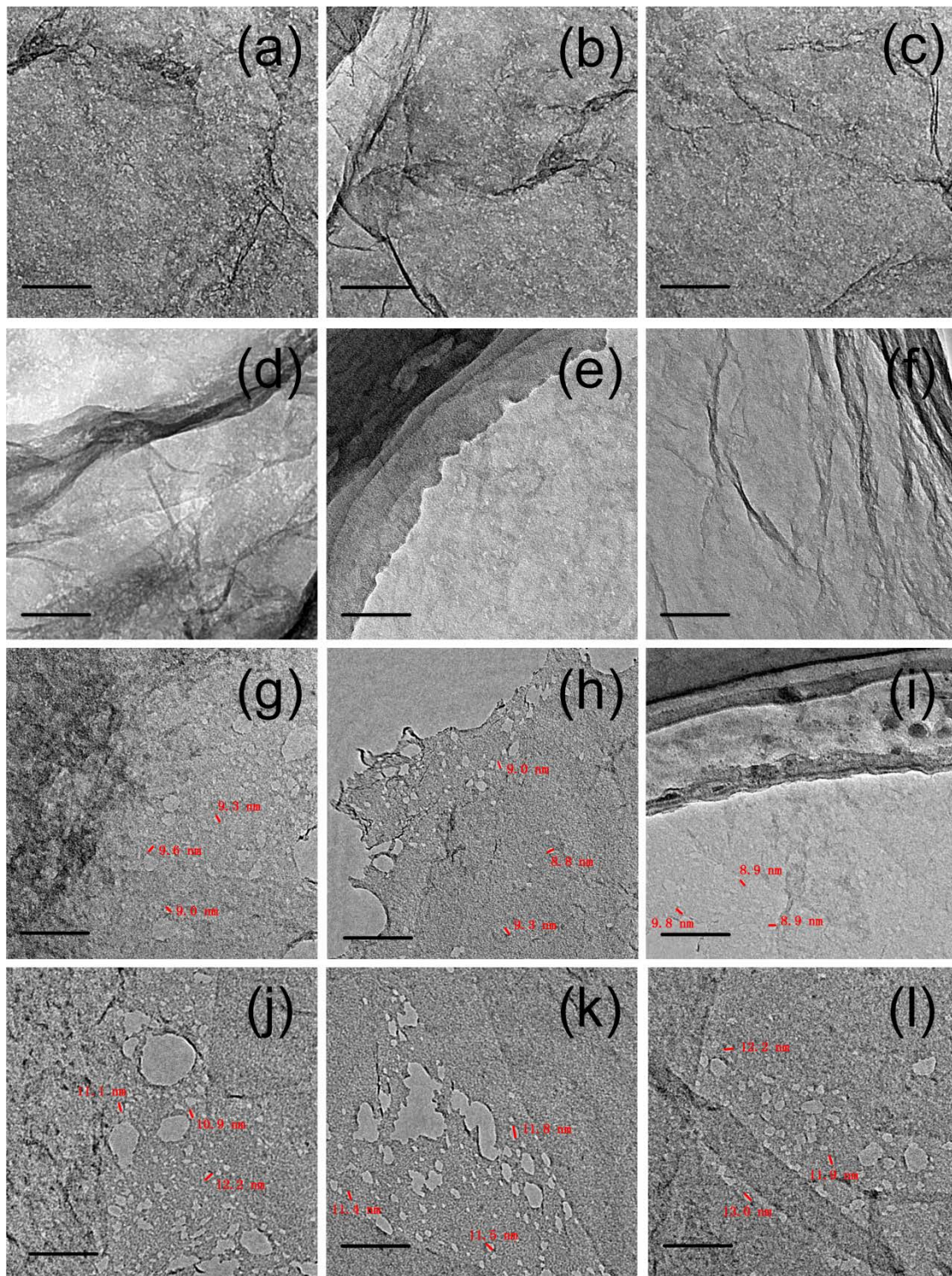


Fig S1. Three representative images of each sample were selected for statistical analysis, (a-c) for GNM-2h, (d-f) for GNM-3h, (g-i) for GNM-4h, (j-l) for GNM-5h. For GNM-4,5h, three nanopores of each image were marked with length dimension to facilitate the size estimate of adjacent nanopores. Scale bars are 100nm in (a-l).

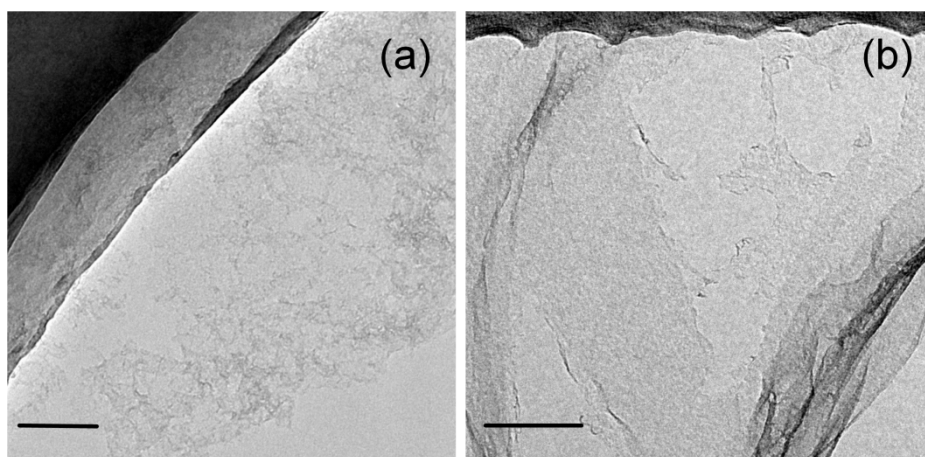


Fig S2. The TEM image for GNM-6h. Scale bars are 200nm in (a-b) and 100nm in (c).