

化学改性氧化石墨烯交联的聚酰亚胺气凝胶

梁 祎 卢 贇* 姚维尚 张学同*

(北京理工大学材料科学与工程学院, 北京 100081)

Polyimide Aerogels Crosslinked with Chemically Modified Graphene Oxide

LIANG Yi LU Yun* YAO Wei-Shang ZHANG Xue-Tong*

(School of Materials Science & Engineering, Beijing Institute of Technology, Beijing 100081, P. R. China)

*Corresponding authors. LU Yun, Email: luyun@bit.edu.cn.

ZHANG Xue-Tong, Email: zhangxtchina@yahoo.com; Tel: +86-10-68912370.

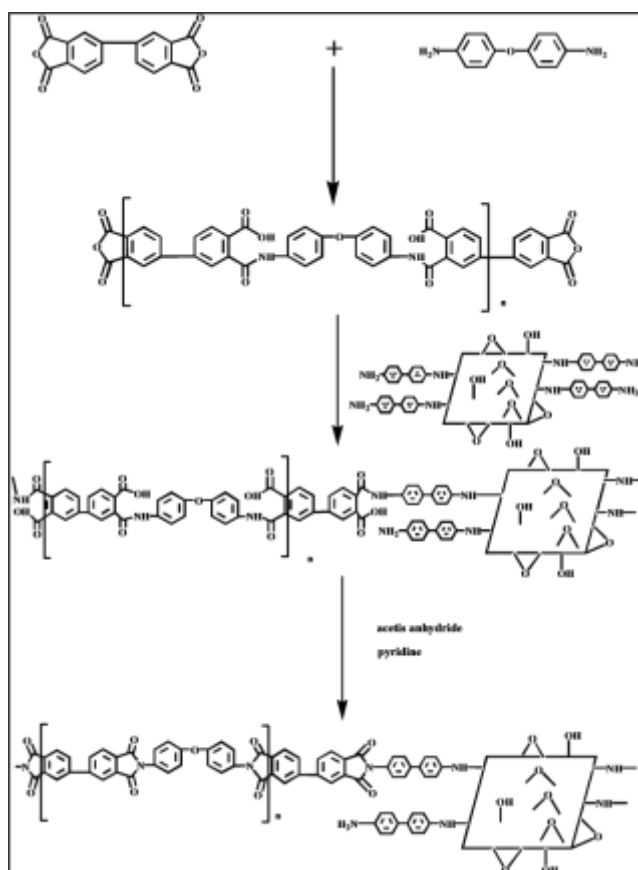


Fig.S1 Scheme of the PI/m-GO aerogels preparation

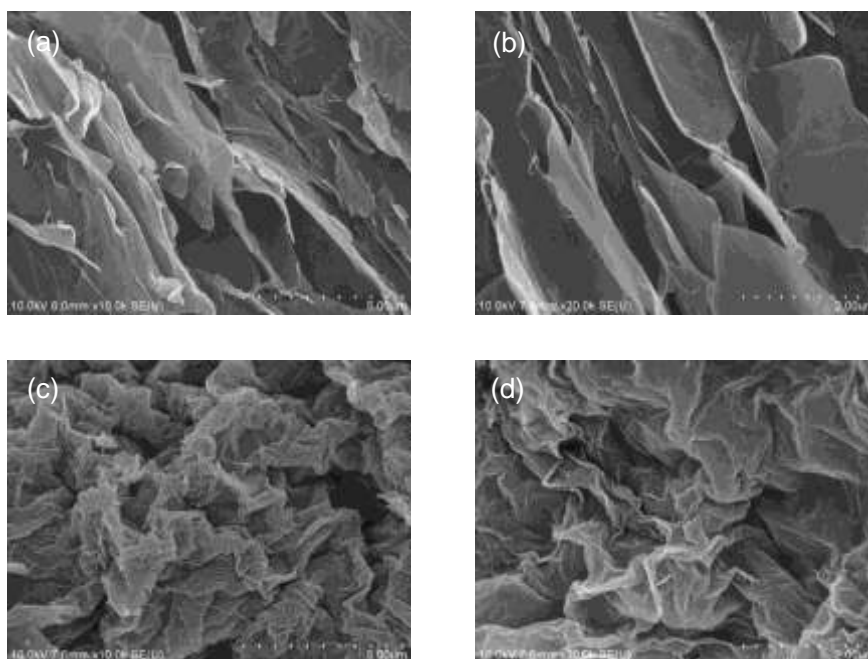


Fig.S2 SEM micrographs of (a, b) GO and (c, d) m-GO

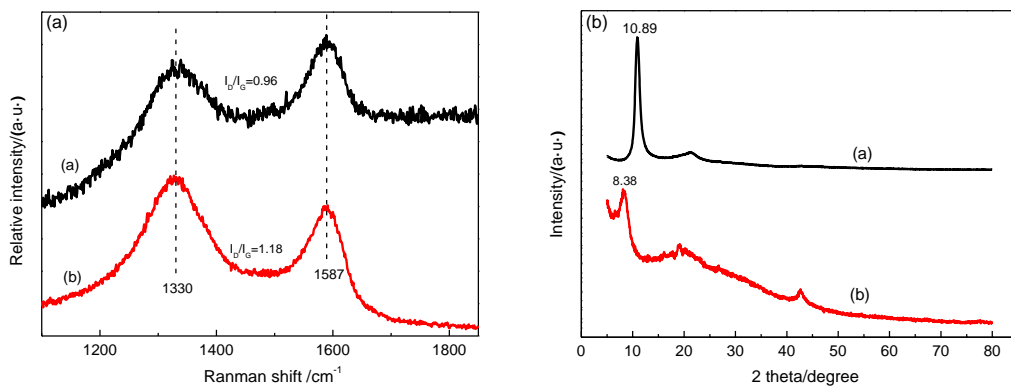


Fig.S3 (a) Raman spectra and (b) XRD pattern of (a) GO and (b) m-GO

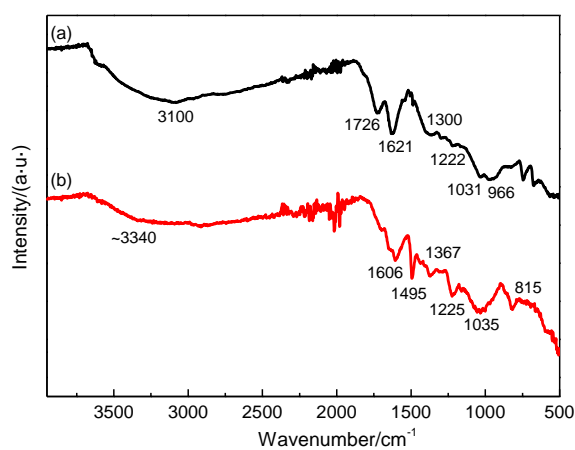
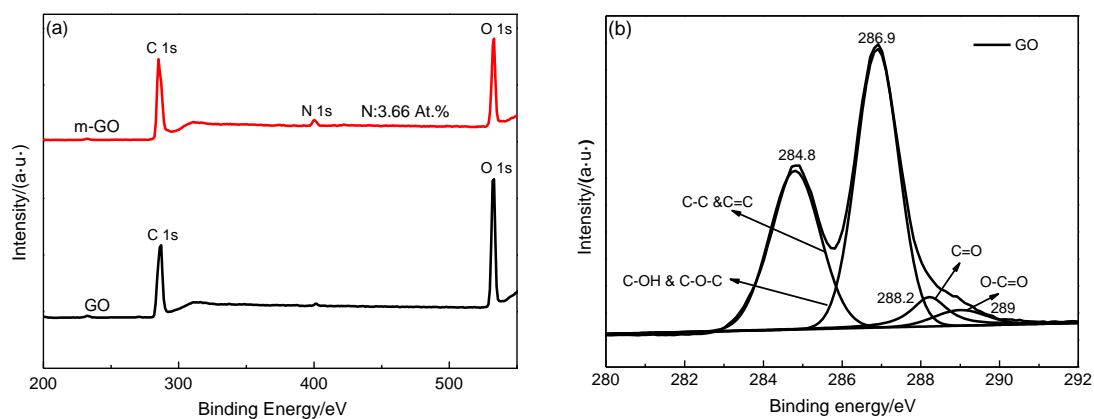


Fig.S4 FTIR spectra of (a) GO and (b) m-GO



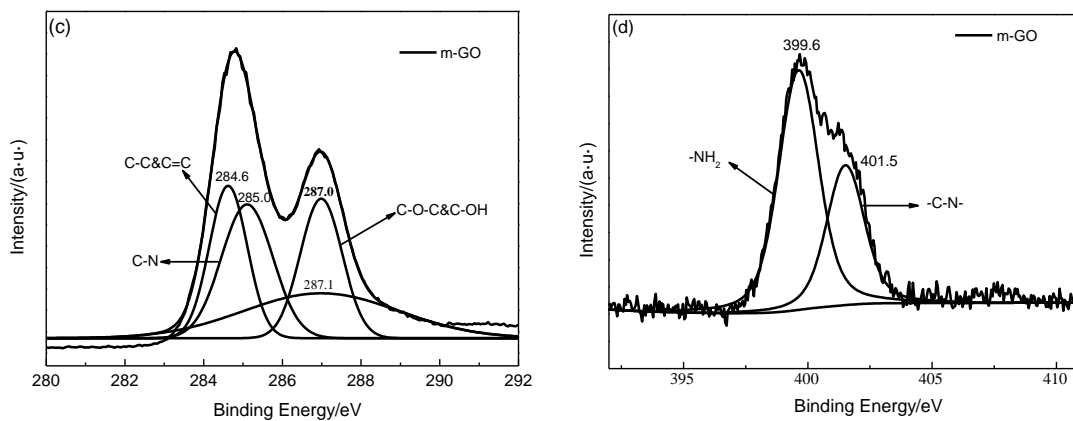


Fig.S5 Survey profiles (a) of m-GO and GO, (b) the C 1s spectrum of GO, (c) the C 1s spectrum of m-GO and (d) the N 1s spectrum of m-GO

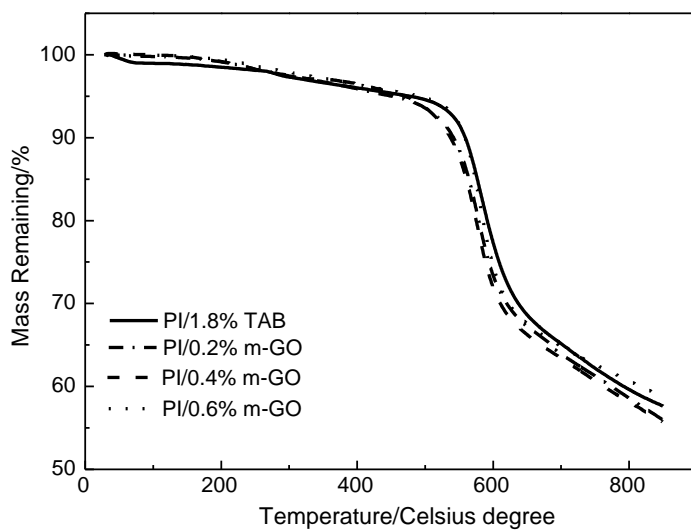


Fig.S6 TG diagrams of the obtained aerogels