**Supporting Information**

**Functionalization of petroleum coke-based mesoporous carbon for synergistically enhanced capacitive performance**

Jufeng Huang,a Wei Xing,\*a Fazle Subhan,b Xiuli Gao,c Peng Bai,c Zhen Liu,c Youhe Wang,a Qingzhong Xue,a Zifeng Yanc

a School of Science, State Key Laboratory of Heavy Oil Processing, China University of Petroleum, Qingdao 266580(P. R. China)

b Department of Chemistry, Abdul Wali Khan University Mardan, K.P.K(Pakistan) Tel.:+92 9065467

c School of Chemical Engineering, State Key Laboratory of Heavy Oil Processing,

China University of Petroleum, Qingdao 266580 (P. R. China)

**TABLE S1.** Surface area and pore structure parameters of C50 and C50-AQ30.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sample | SBET  (m2 g-1)a | Smic  (m2 g-1)b | Smeso  (m2 g-1)c | Vtotal  (cm3 g-1)d | Vmeso  (cm3 g-1)e | Dave  (nm)f |
|
| C50 | 864 | 106 | 758 | 1.37 | 1.42 | 6.3 |
| C50-AQ30 | 317 | 0 | 317 | 0.75 | 0.83 | 9.4 |

a BET surface area determined by N2 adsorption; b Micropore surface area calculated by the t-plot method; c Mesopore surface area Smeso=SBET-Smic; d Total pore volume measured at a relative pressure (P/Po) of 0.99; e Mesopore volume calculated by BJH method; f Average pore size calculated by 4Vtotal/SBET.