SUPPLEMENTARY MATERIAL TO

**Study of Raw and Modified Carbon Molecular Sieves Using Waste Engine Oil for Carbon Dioxide and Methane Adsorption**

Reza Zahedi1, Hossein Ghafourian[[1]](#footnote-1)\*2, Yahya Zamani3, Shahrzad Khoramnejhadian1, Reza Dabbagh4

*1Department of environment, Damavand Branch, Islamic Azad University, Damavand,*

*2Department of environment Engineering, Tehran North Branch, Islamic Azad University, Tehran, Iran,3Gas research division Research Institute of Petroleum Industry (RIPI), Tehran, Iran*,*4Materials & Nuclear Fuel Research School, Nuclear Sciences & Technology Research Institute, (NSTRI), Tehran, Iran*



Fig. 3. CO2 adsorption capacity on the group CMS (R-2) adsorbents



Fig. 4. CO2 adsorption capacity on the group CMS (R-3) adsorbents



Fig. 5. CH4 adsorption capacity on the group CMS (R-2) adsorbents



Fig. 6. CH4 adsorption capacity on the group CMS (R-3) adsorbents



Fig. 7. CO2 adsorption capacity on the group CMS (A-2) adsorbents



Fig. 8. CO2 adsorption capacity on the group CMS (A-3) adsorbents



Fig. 9. CH4 adsorption capacity on the group CMS (A-2) adsorbents.



Fig. 10. CH4 adsorption capacity on the group CMS (A-3) adsorbents.

1. \* Corresponding author. E-mail: h\_ghaforian@iau-tnb.ac.ir [↑](#footnote-ref-1)