

Supplementary data

Comparing activated carbon and magnetic activated carbon in removal of linear alkylbenzene sulfonate from aqueous solution by heterogeneous catalytic ozonation process

Vahid Mohammadi^a, Masoumeh Tabatabaee^b, Abdolmajid Fadaei^{c,*}, Seyed Abolghasem Mirhoseini^a

^aDepartment of Environmental, School of Agriculture and natural resources, Islamic Azad University, Yazd, Iran.

^bDepartment of Chemistry, Yazd Branch, Islamic Azad University, Yazd, Iran.

^cDepartment of Environmental Health Engineering, School of Health, Shahrekord University of Medical Sciences, Shahrekord, Iran.

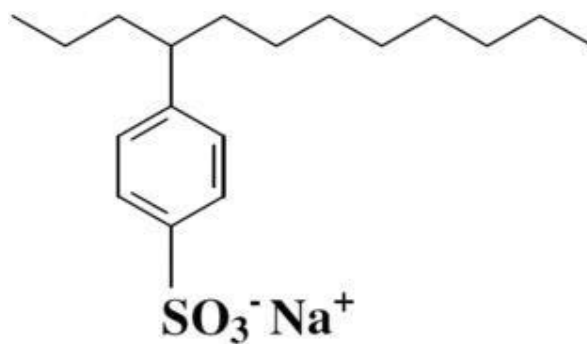


Fig. S1. Structural formula of Linear Alkylbenzene Sulfonate.

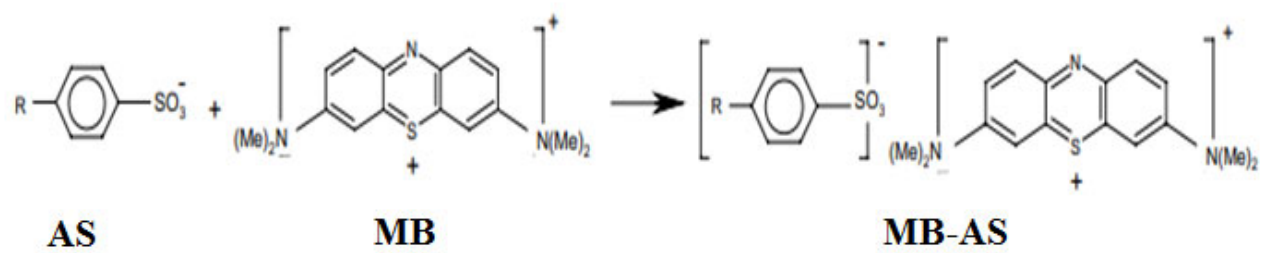


Fig. S2. Anionic surfactant reaction with methylene blue.

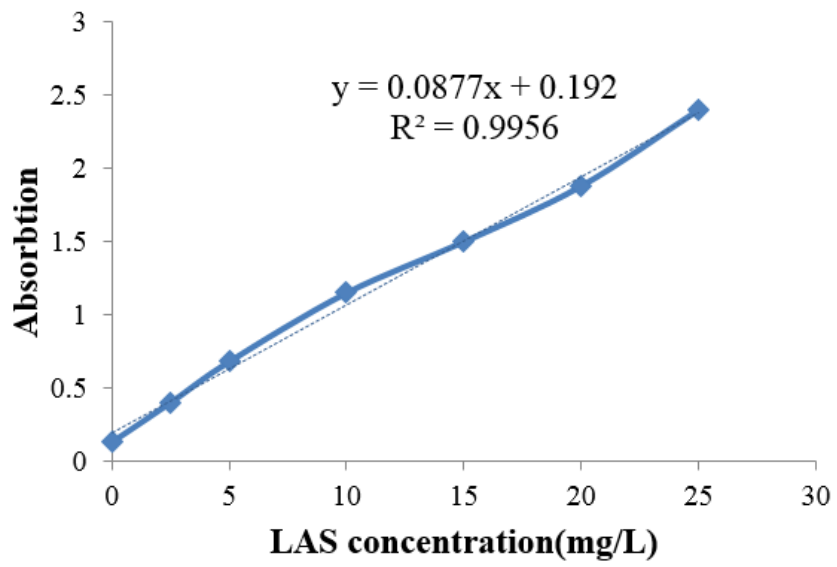


Fig. S3. Relations between concentration of LAS and methylene blue.



Fig. S4. Magnetic effect of MPCAC catalyst under the influence of magnet.

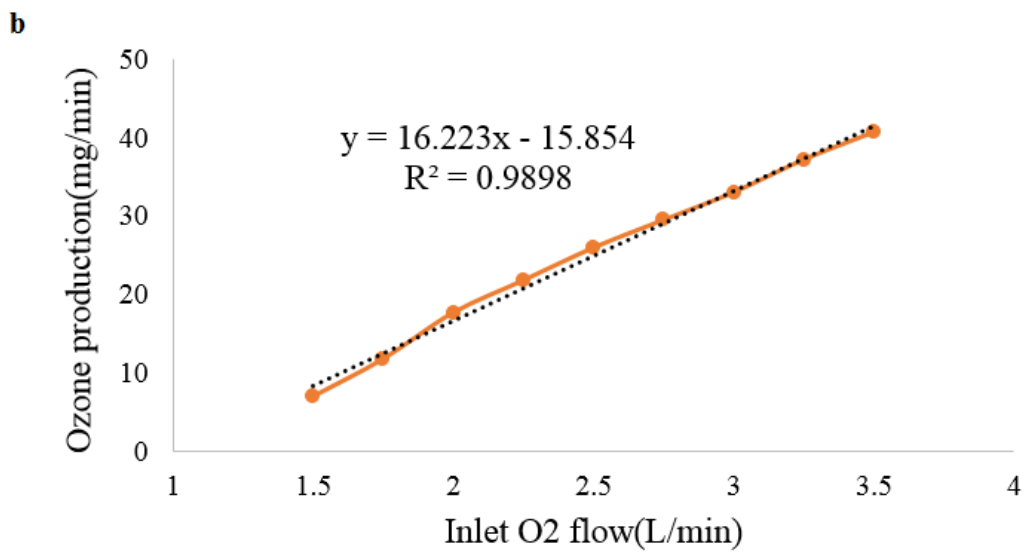
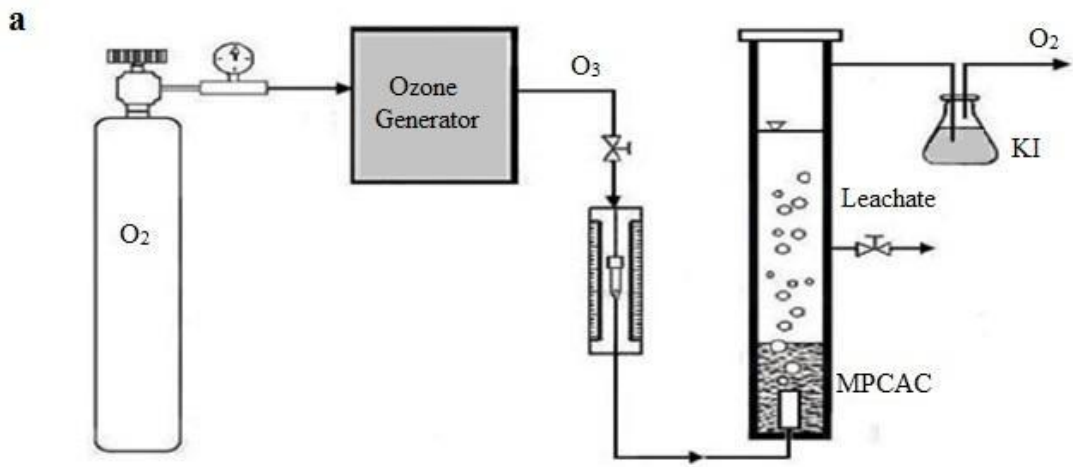


Fig. S5. Pilot scale experimental of ozonation reactor (a) and influence of oxygen concentration on ozone production (b).

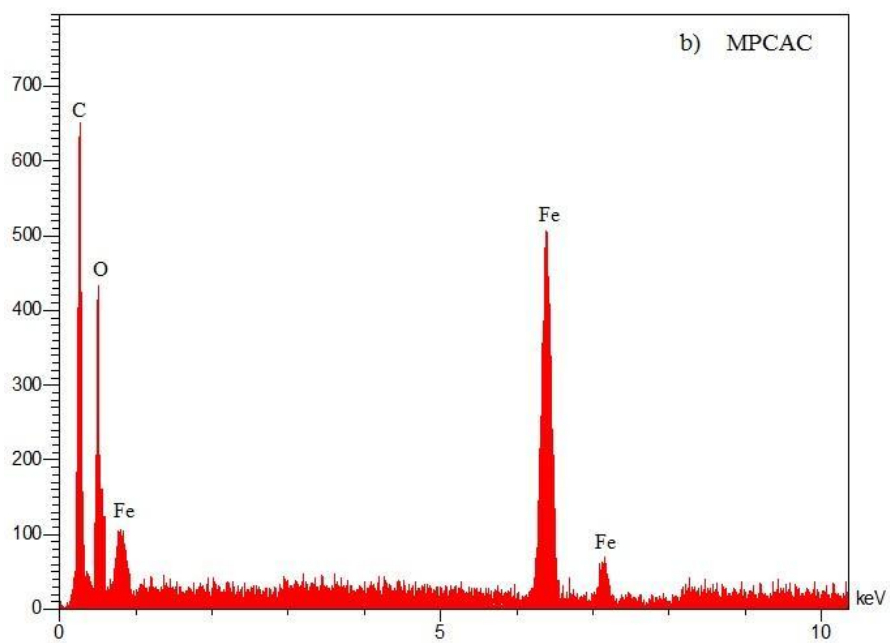
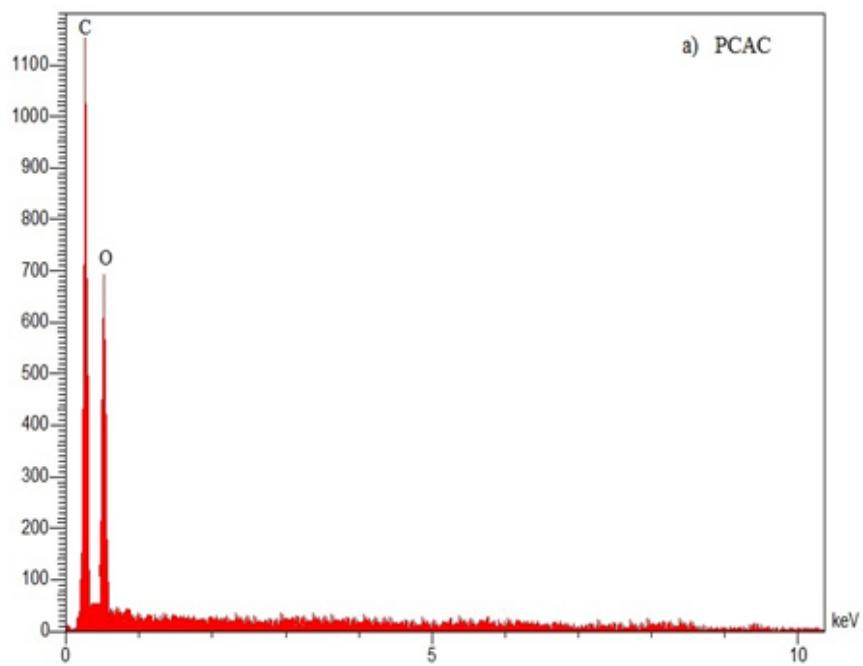


Fig. S6. The EDX spectrums of PCAC (a) and MPCAC (b).

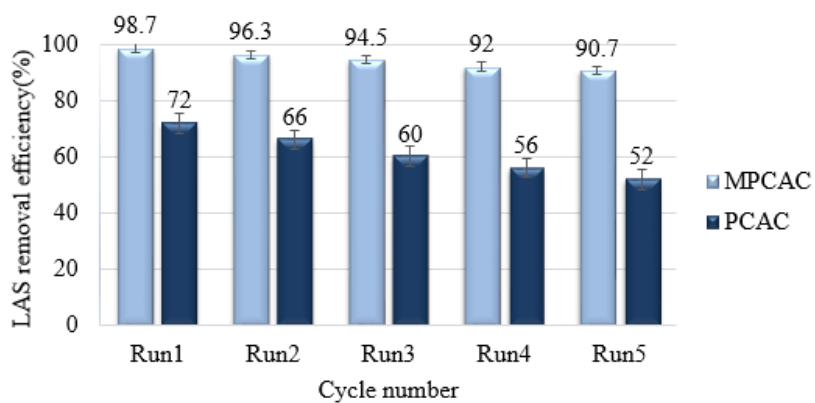


Fig. S7. Effect of catalysts reuse on LAS degradation in the COP.