

Current manuscript describes the effect of O₂ plasma pre-treatment on the oil/water separation properties of Si-based cotton filters. After assessing the whole manuscript, some new information can be found. However, some questions should be addressed to improve the manuscript.

My opinions and comments about this manuscript are as follows:

1. The size and border line of each combination graph in Figure 2 are inconsistent. Such as Figure e has no left scale but Figure a and i have. The border lines and ruler is not clear in some pictures. Please make unified adjustment.
2. The XPS figure pristine cotton also exit weak peaks at in binding energies of 101.8 and 152.8 eV, which related to Si2p and Si2s, why? The XPS analysis shows the intensity of the Si-O-C bond significantly enhanced in Si-Cot_Dip/O₂ than that of Si-Cot_Plasma/O₂. Why they nearly have the same water contact angle.
3. It was described the FT-IR spectra test in the range of 500-4000 cm⁻¹, but the Figure 3 shown the wavenumber range of 700-4000 cm⁻¹. Please explain.
4. The original SEM image already has a ruler in Figure 4, Each scale should be 2 μm, not 20 μm. It is recommended that the images be more compact, without adding a yellow border
5. There are irregularities in the annotation of references in the paper. Such as '[16]-[19]', '[24][25]', '[39],[40]'.... The references cited after the paper were not uniform and standard, Some magazines don't have a shorthand, There is no agreement on whether italics are required and Some references have no DOI numbers.... Please check the full text and correct it.
6. The unit of '°C' are not unified in the full text, Please check the full text and correct it. A space between the number and the unit is recommended.
7. The equation of separation efficiency should add '%'
8. There are some problems in the upper and lower Angle marking. '0₂' in line 180, 'cm¹' in line 234, 'Mg(NO₃)₂' in Table 2.
9. English expression should be improved.