

## Supplementary Material

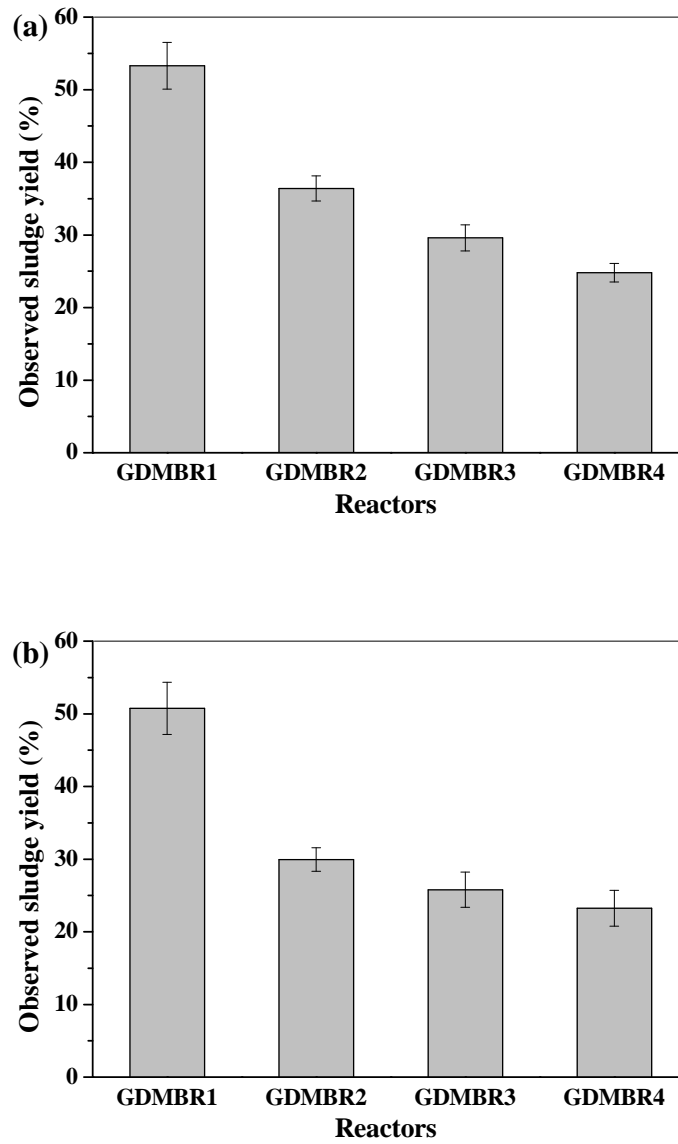
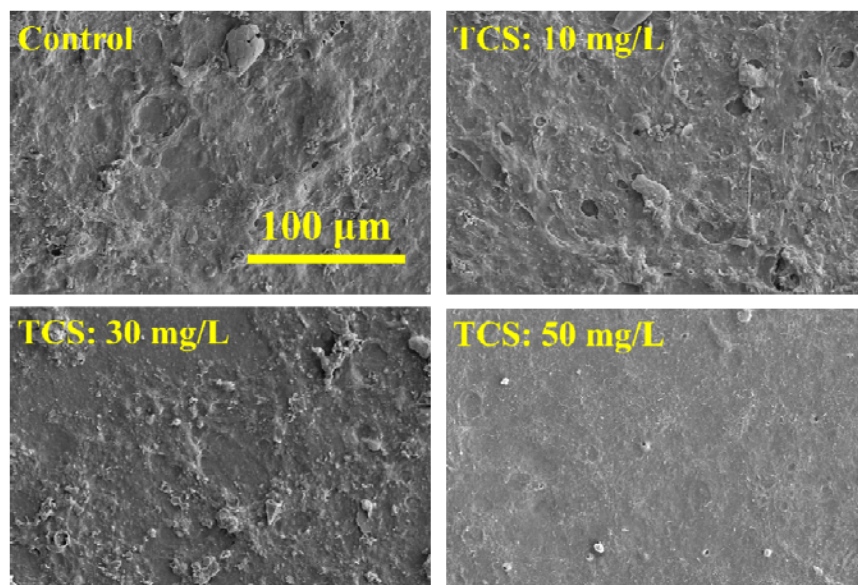


Fig. S1 Effect of TCS addition on the observed sludge yields. (a) on Day 14; (b) on Day 28.



**Fig. S2** SEM images of the fouling layer on the membrane surface with the magnification times of 400 at the end of the experiment (Day 40).

**Table S1** Fluorescence spectral parameters of different samples on Day 12. S1, S2, S3 and S4 were SMP samples from GDMBR 1, 2, 3, and 4, respectively. P1, P2, P3 and P4 were the effluent samples from GDMBR 1, 2, 3, and 4, respectively.

Sample	Peak A		Peak B		Peak C		Peak D	
	$E_x/E_m$	Intensity	$E_x/E_m$	Intensity	$E_x/E_m$	Intensity	$E_x/E_m$	Intensity
S1	235/347	519.2	280/337	550.8	250/426	597.4	330/411	569.5
S2	235/349	640.2	280/310	935.6	245/422	668	340/415	653.4
S3	235/349	685.8	280/322	1135	245/424	827.3	351/419	893.7
S4	235/342	724.4	280/310	1140	245/430	1349	350/435	1152
P1	235/348	371.7	280/307	522.9	250/421	588.2	330/412	547.2
P2	240/369	594.4	280/308	506.4	245/416	718.9	330/421	595.5
P3	235/355	575.1	280/309	557	245/424	845.9	320/415	824.8
P4	235/361	666.2	280/308	594.6	240/415	1034	315/414	1142