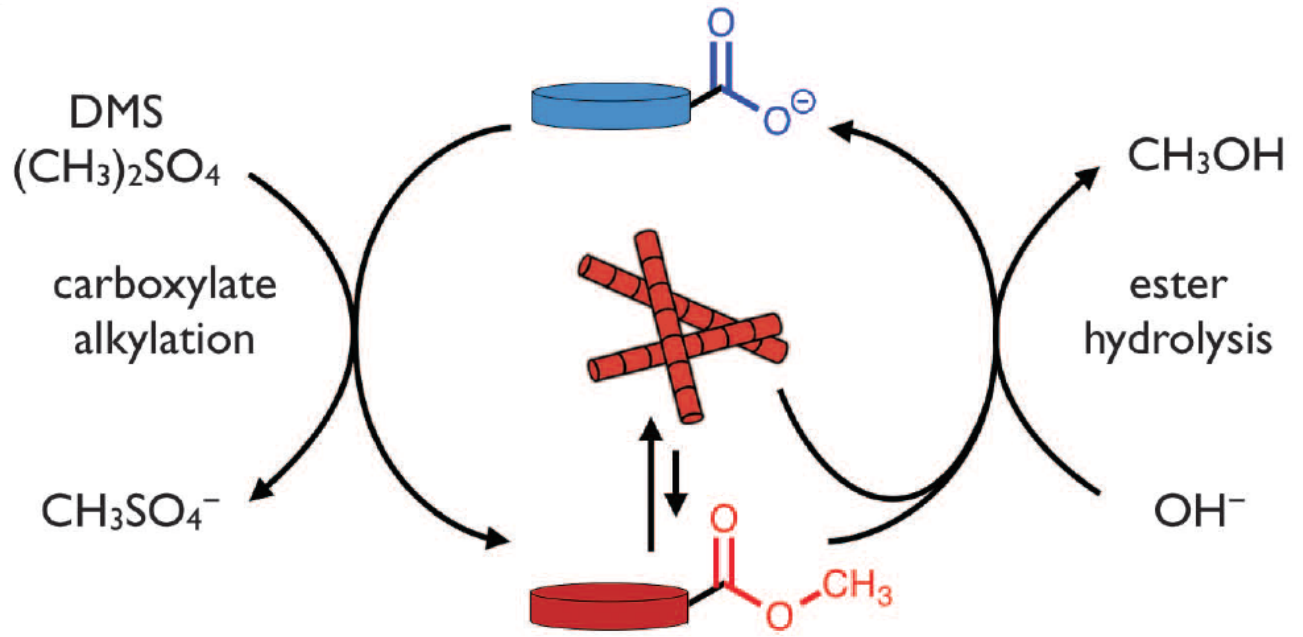
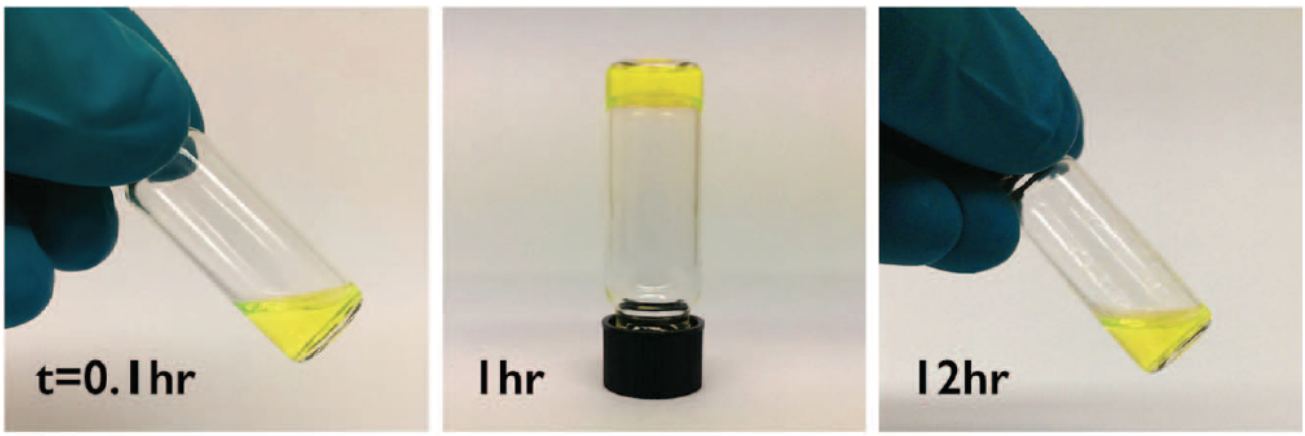
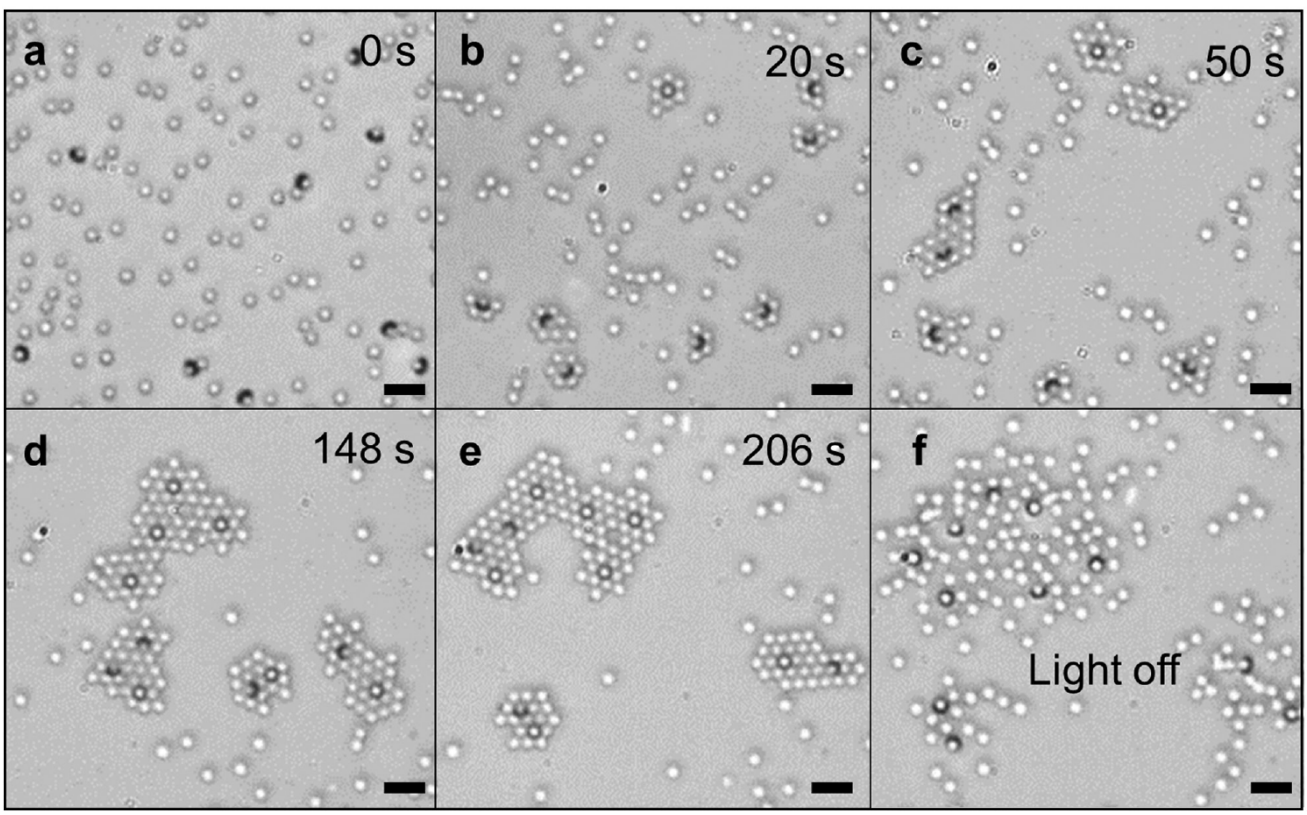
a


DMS
$(CH_3)_2SO_4$
carboxylate
alkylation
$CH_3SO_4^-$
CH_3OH
ester
hydrolysis
OH^-
O
$O^{\ominus}$
O
O
CH_3


t=0.1hr
1hr
12hr

b


a
0 s
b
20 s
c
50 s
d
148 s
e
206 s
f
Light off