MB Photodegradation Trial 1

t=0

t=221 min



OAD CuO NR (Cu was annealed at 380° C for 3h)

QCM reading : 3 μm

Photodecay:

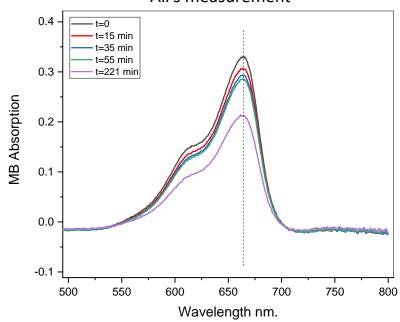
MB concentration: $10.9 \mu M$

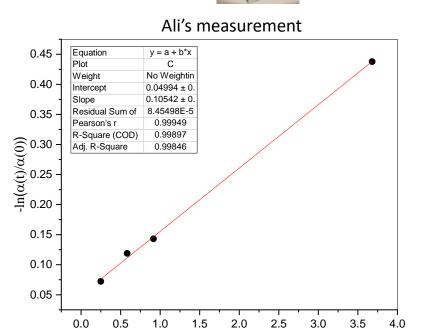
Intensity $\approx 12 \, mW/cm^2$

 $T_{avg} = 26.8$ °C

 $k_{MB} = 0.105 \ h^{-1}$

Ali's measurement





time (h)

Sample:

OAD CuO NR (Cu was annealed at 380° C for 3h) QCM reading : 2 μm

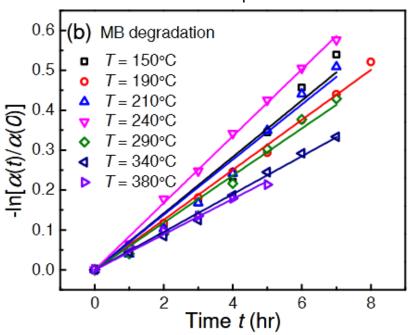
Photodecay:

MB concentration: $31.3 \mu M$ Intensity= $65 mW/cm^2$

 $T_{avg} = 25$ °C

 $k_{MB} = 0.044 \ h^{-1}$

Pradip



MB Photodegradation Trial 2

Sample:

OAD CuO NR (Cu was annealed at 380° C for 3h)

QCM reading : 3 μm

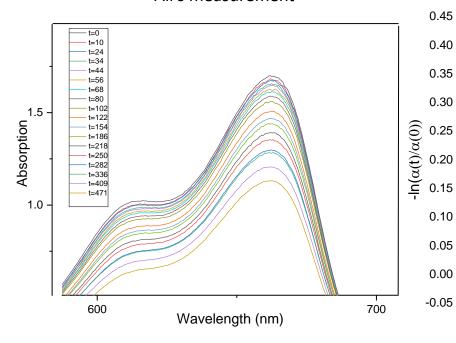
Photodecay:

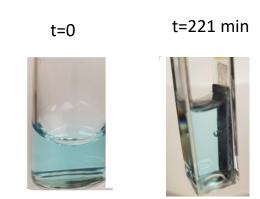
MB concentration: $10.9 \mu M$ Intensity $\approx 60 \, mW/cm^2$

 $T_{avg} = 26.8$ °C

 $k_{MB} = 0.052 \ h^{-1}$

Ali's measurement





y = a + b*x

С No Weighting

0.05216 ± 5.6383 4.90432E-4

> 0.99907 0.99813

> 0.99802

time (hours)

0.45

0.40

0.35

0.30

0.25

0.20

0.10

0.05

0.00

Equation

Intercept

Residual Sum of Sq

R-Square (COD)

Adj. R-Square

Ali's measurement



Sample:

OAD CuO NR (Cu was annealed at 380°C for 3h) QCM reading : 2 μm

Photodecay:

MB concentration: $31.3 \mu M$

Intensity= $65 \, mW/cm^2$

$$T_{avg} = 25$$
 °C

$$k_{MB} = 0.044 \ h^{-1}$$



