**Supplementary Information**

**Influence of N sources on the photocatalytic activity of N-doped TiO2**

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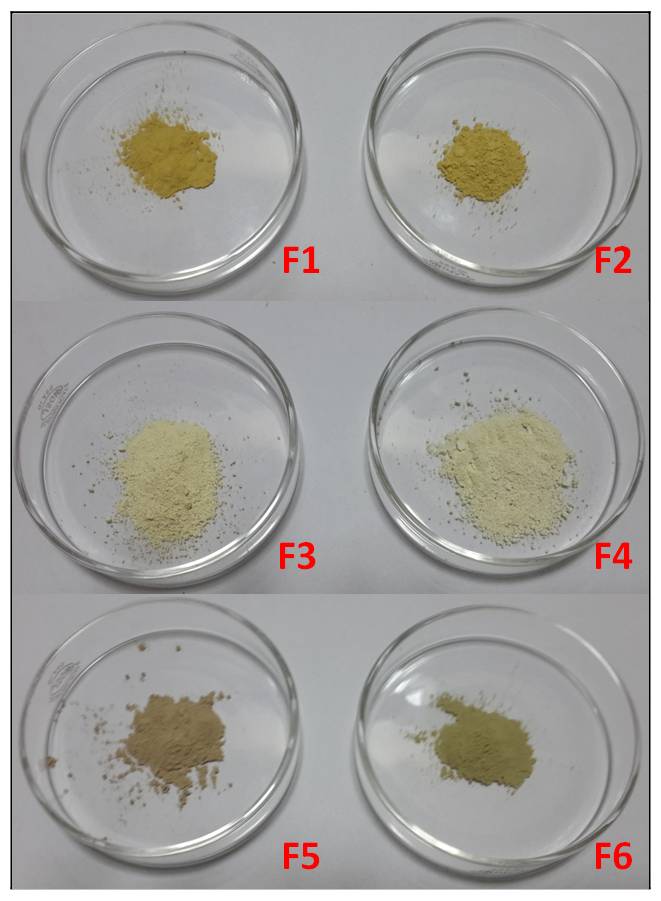
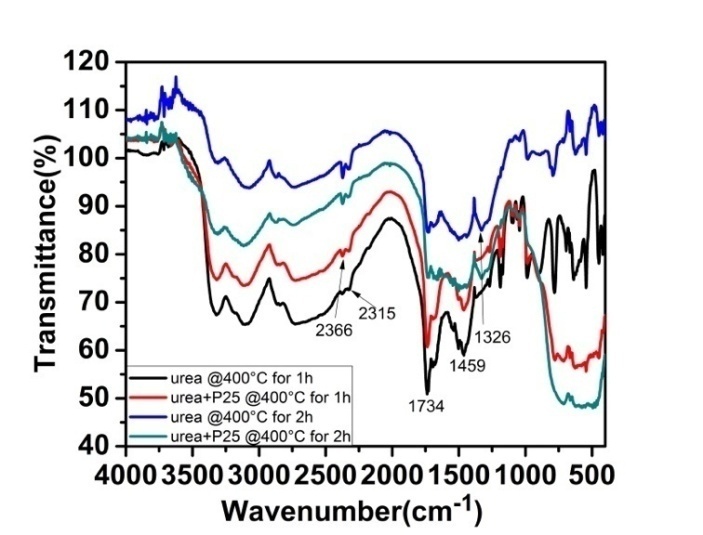


Fig. $1*—Colors of the samples F1- F6*

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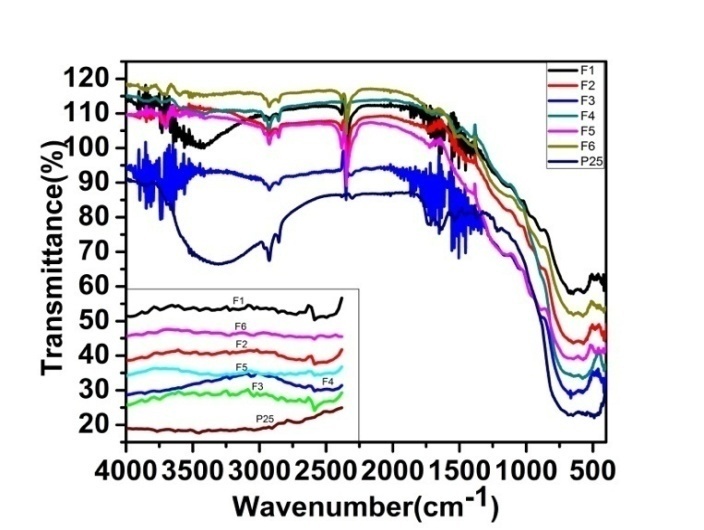
**Fig. $2**—*IR spectra of urea and Urea + P25 heating after 1 and 2 h at 400°C*



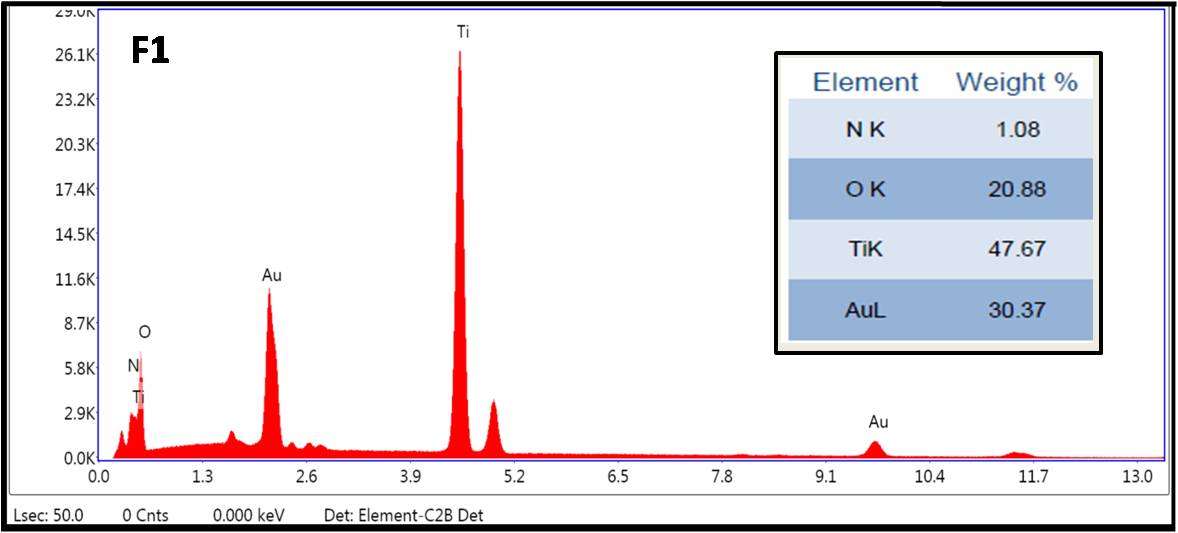
**Fig. $3**— *The mechanism of formation of products on TiO2 surface seen in IR from urea and semicarbazide*

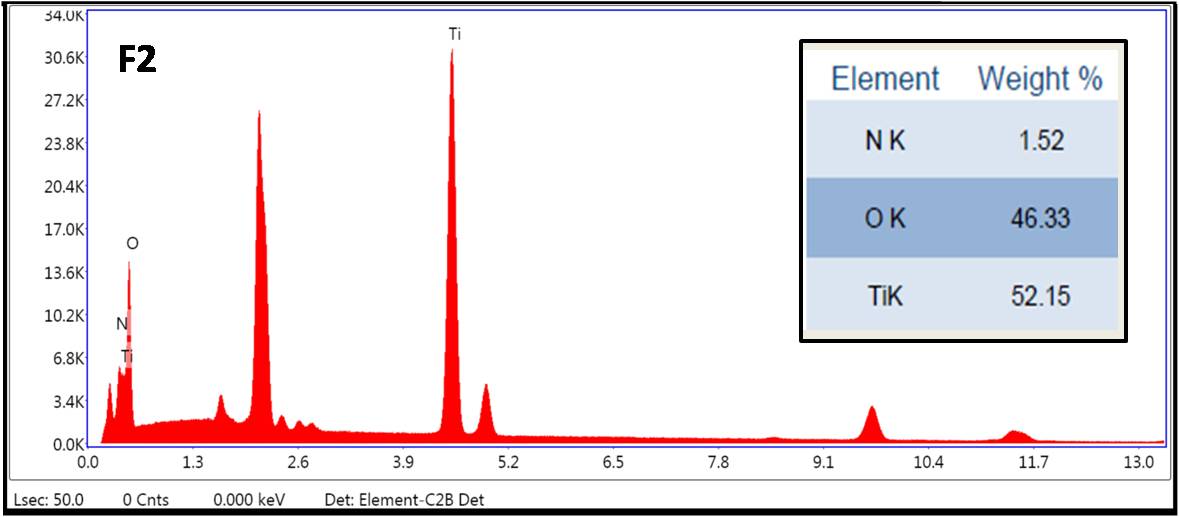


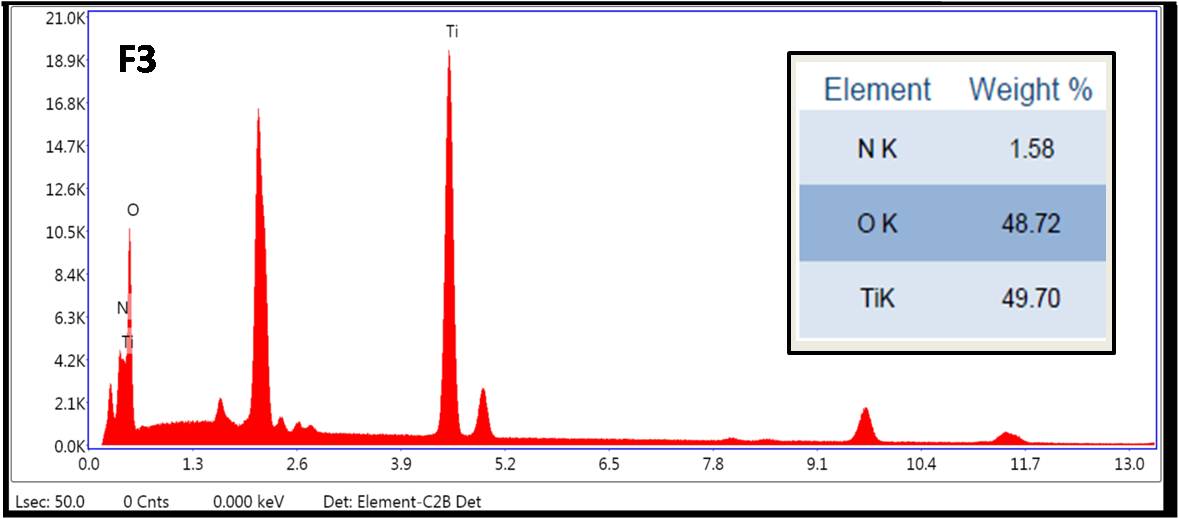
**Fig. $4**—*Mechanism of decomposition of N,N’-dimethyl urea decomposition on TiO2*

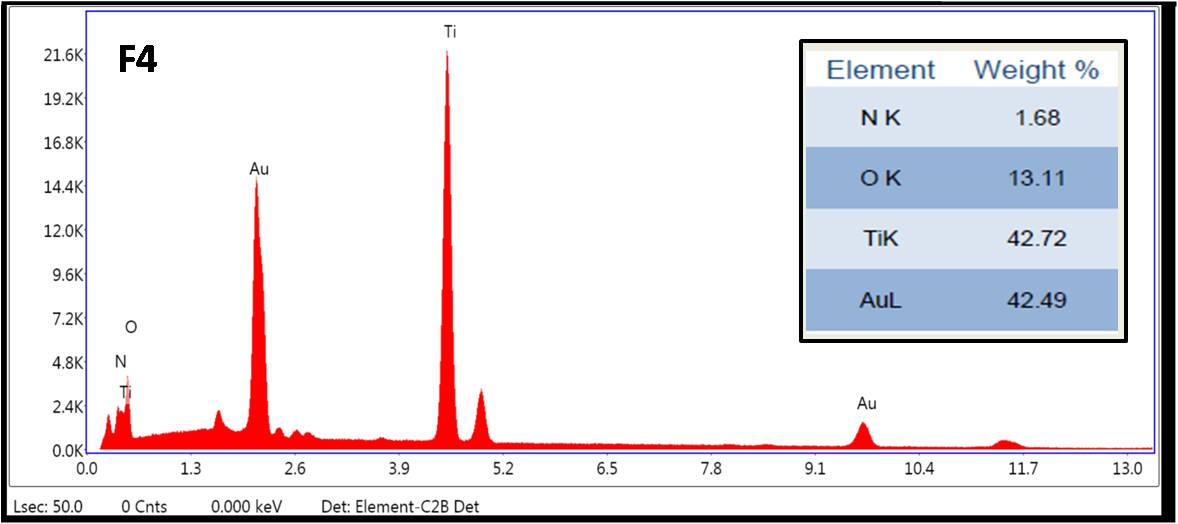
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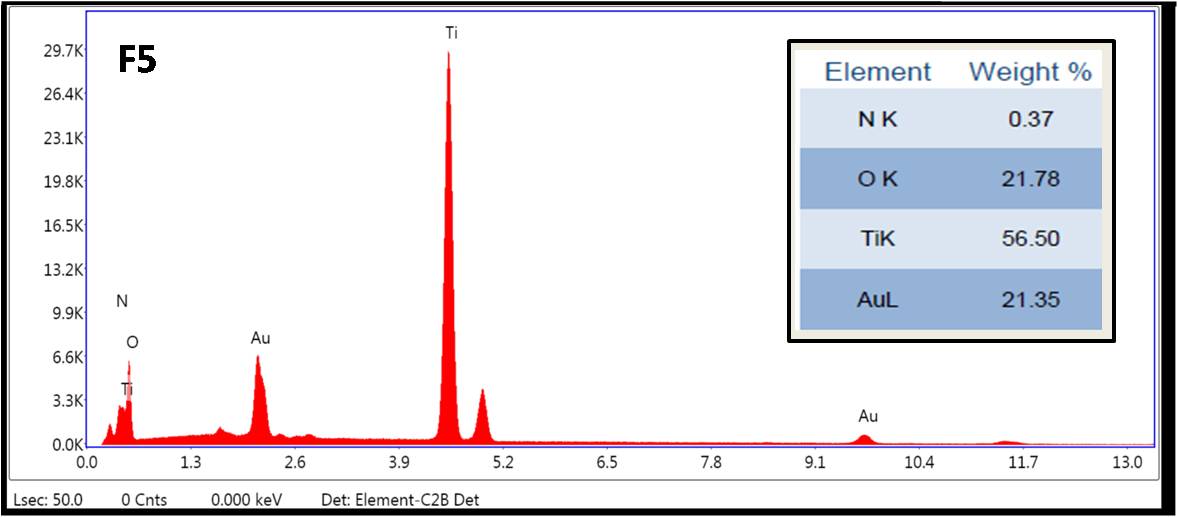
**Fig. $5**—*IR spectra of samples heated at 1000°C*

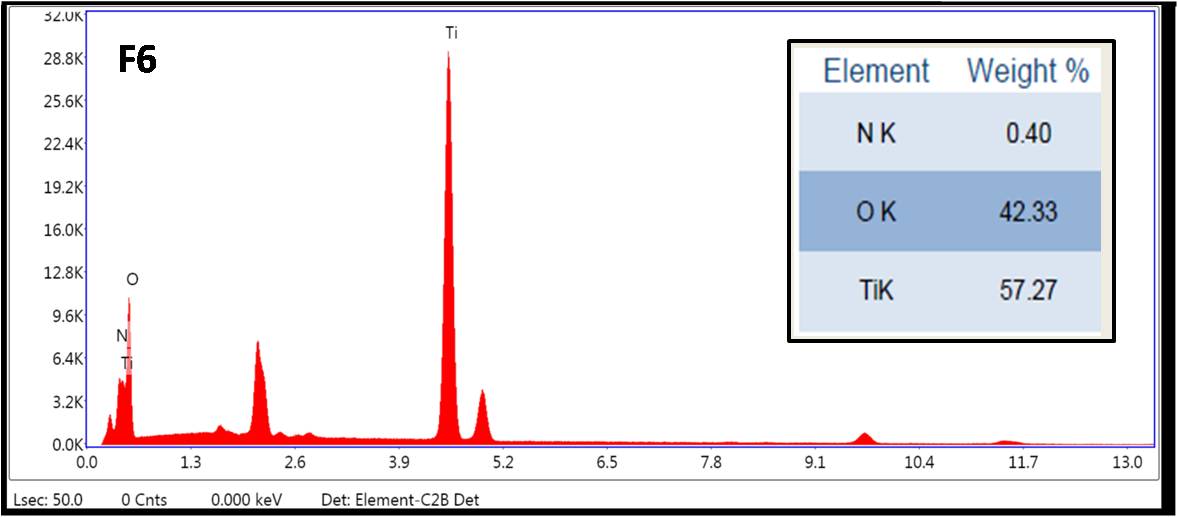
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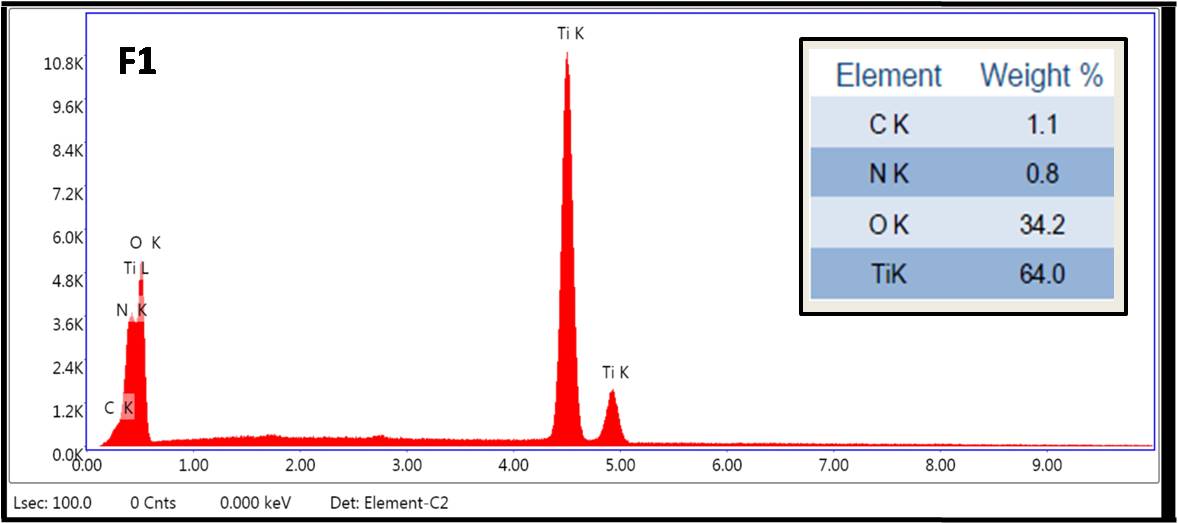
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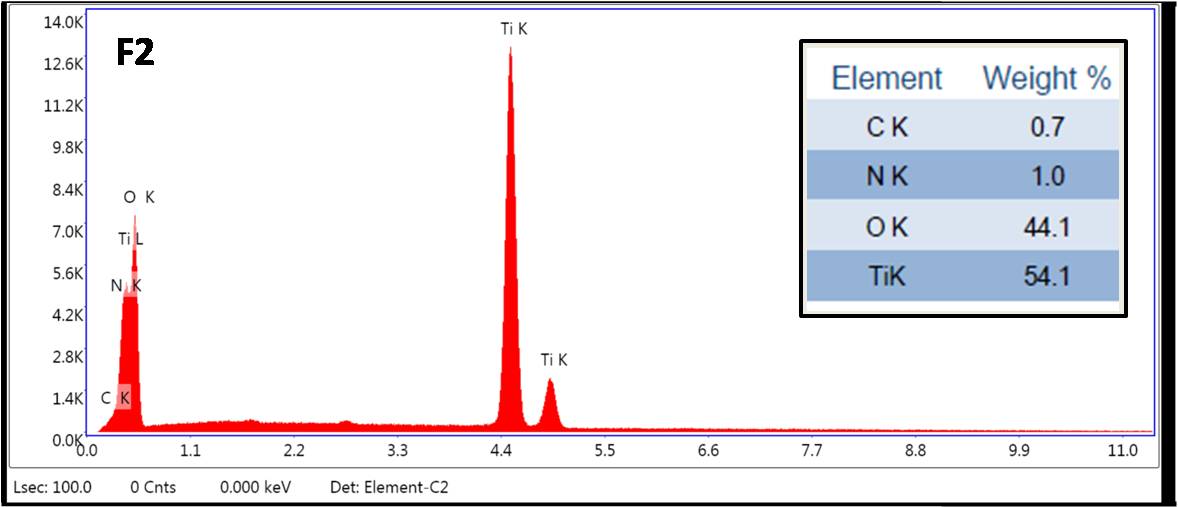
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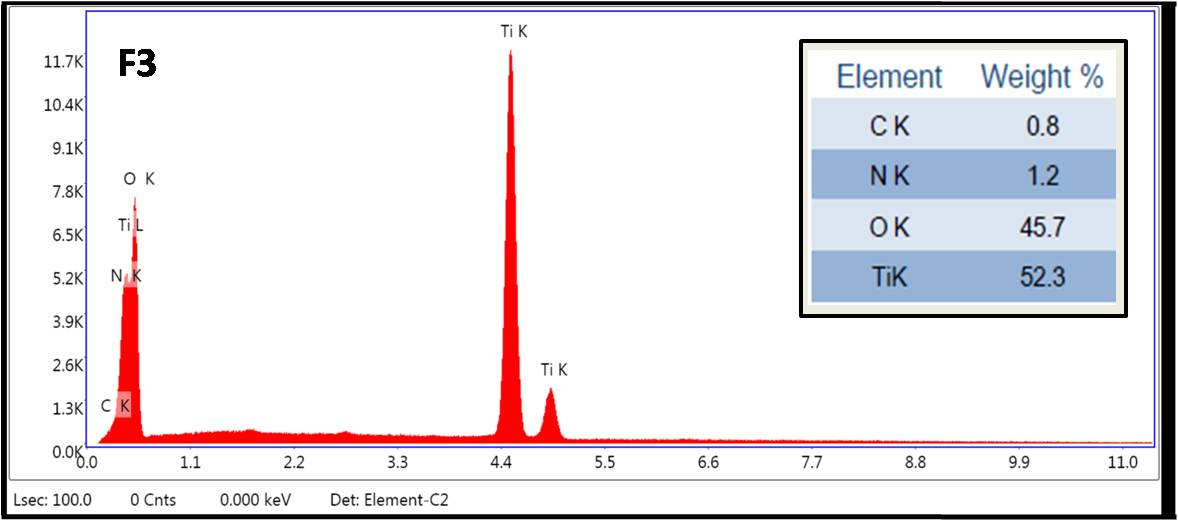
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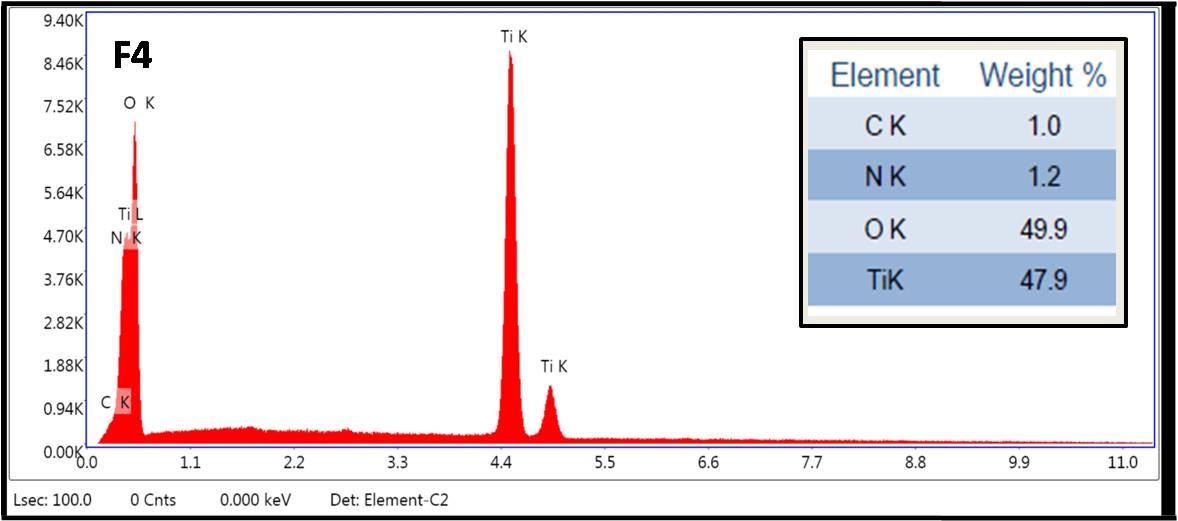
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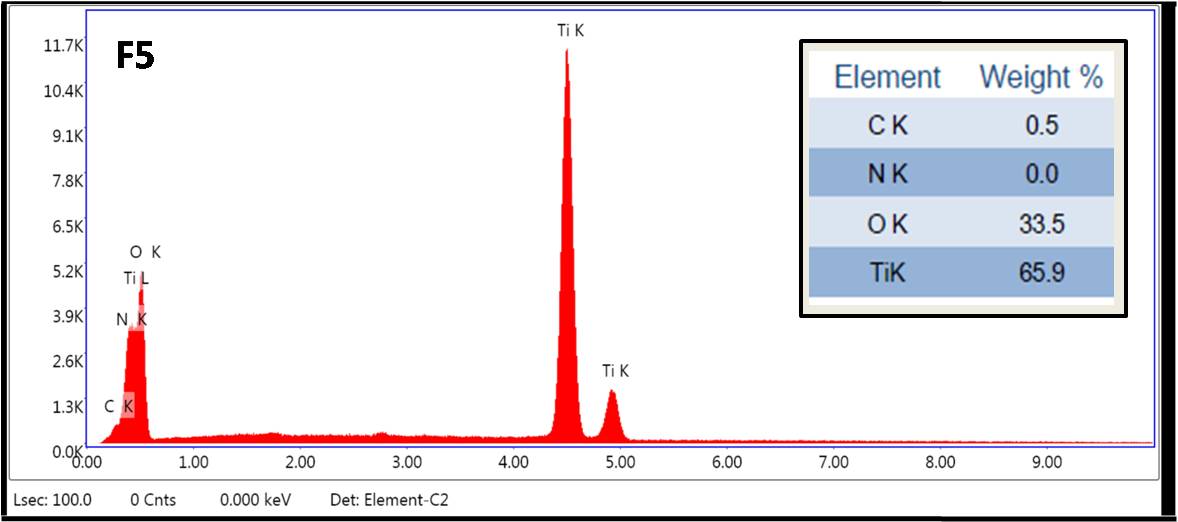
**Fig. $6**—*EDX plots for samples calcined at 500 ºC*

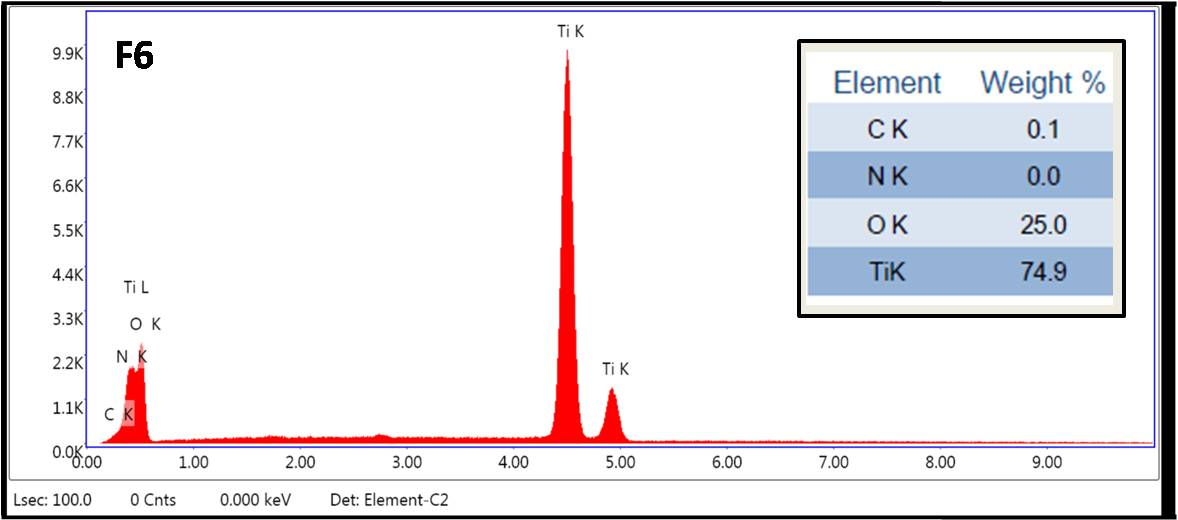
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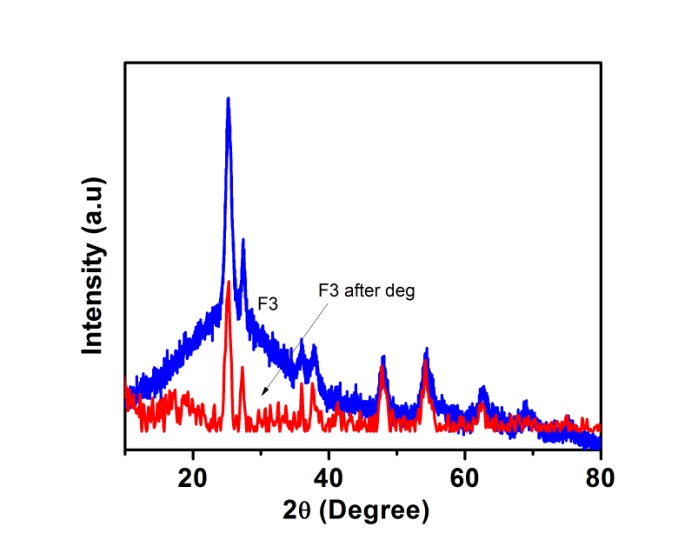
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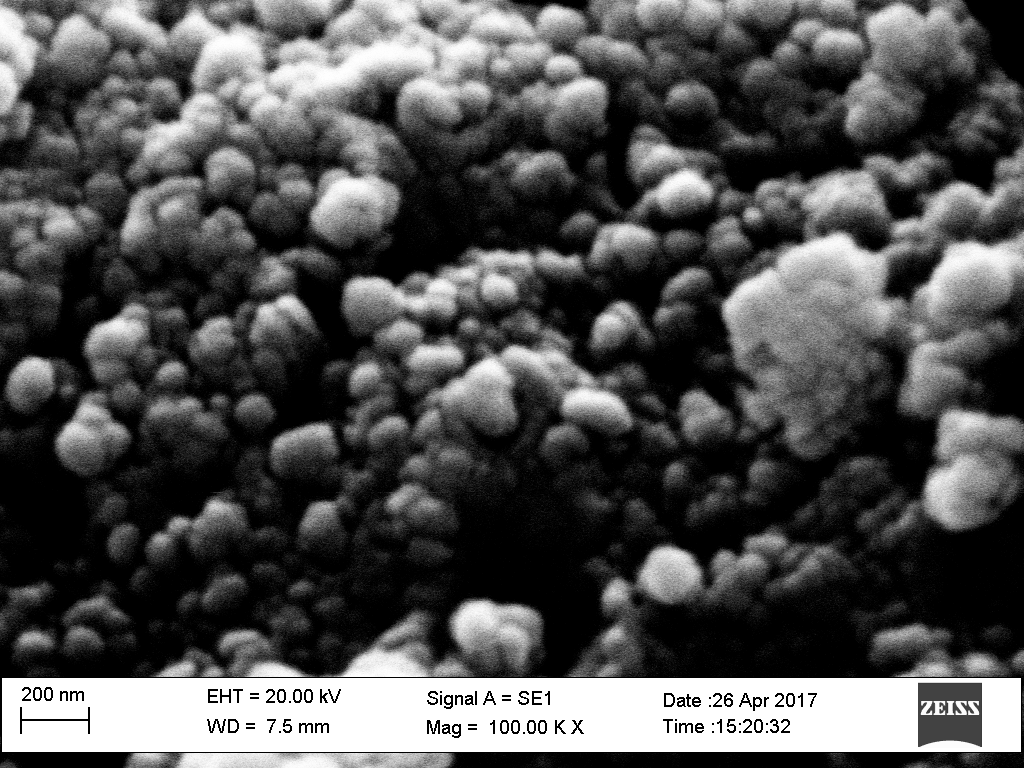
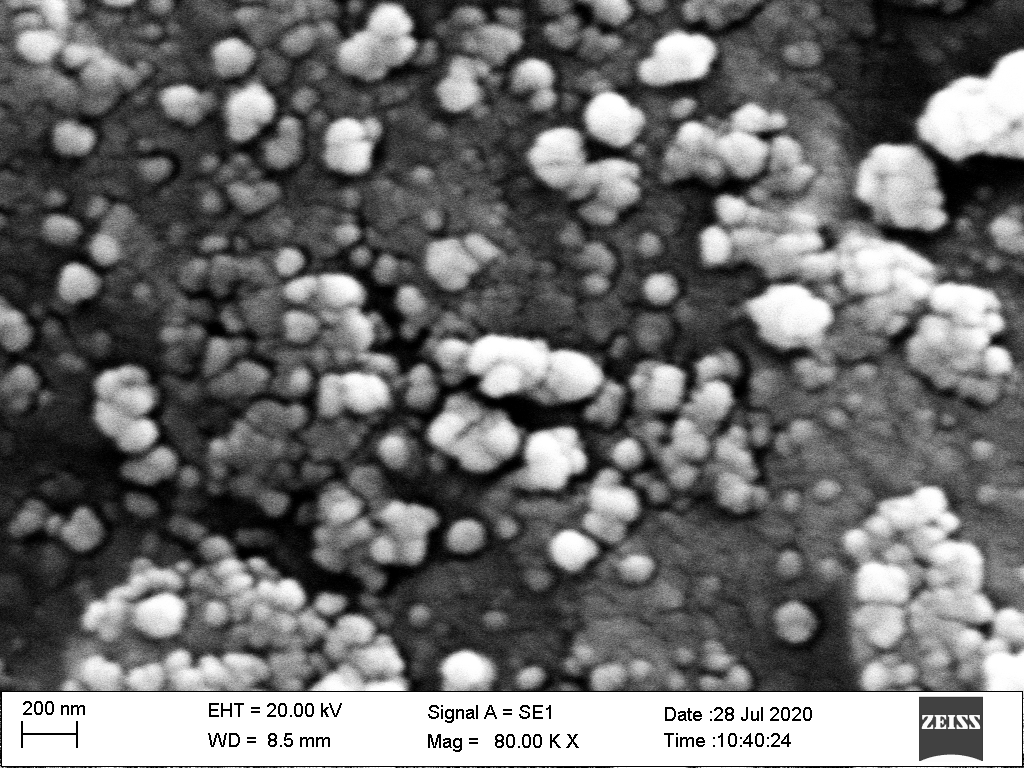
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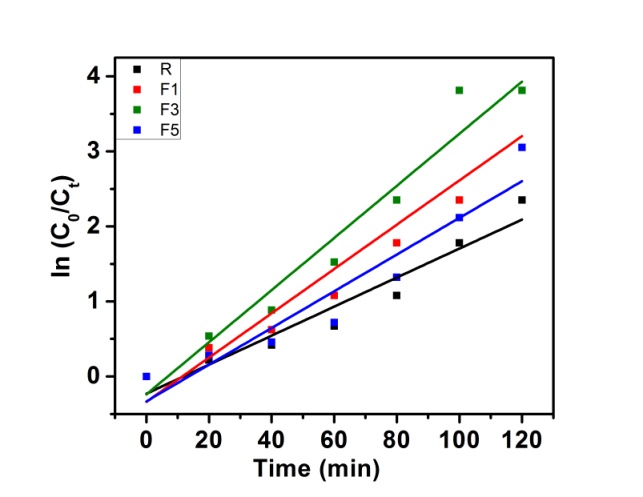
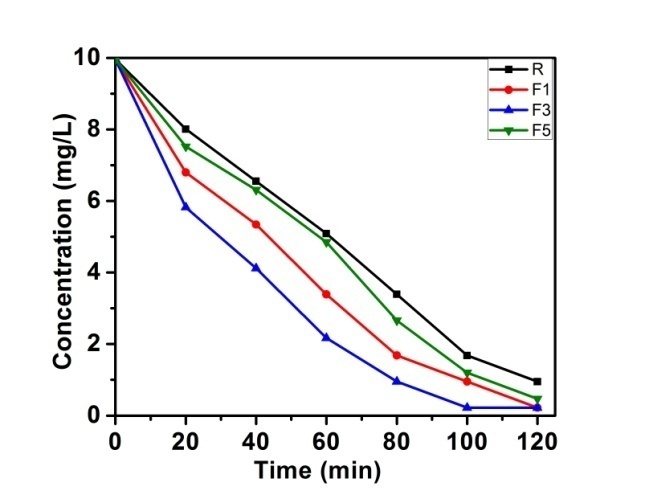
**Fig. $7**—*EDX plots for samples calcined at 1000 ºC*



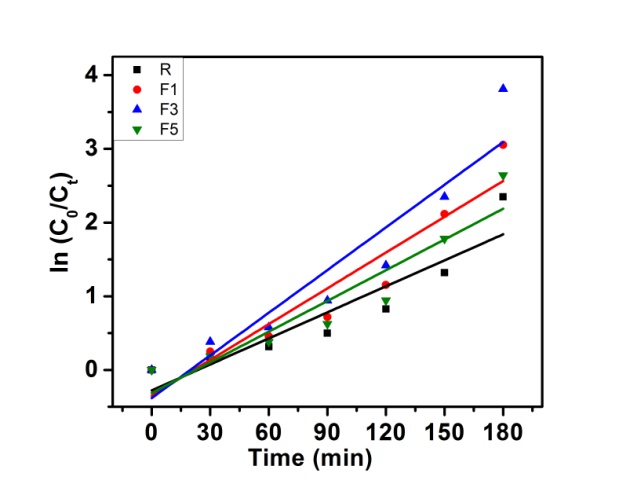
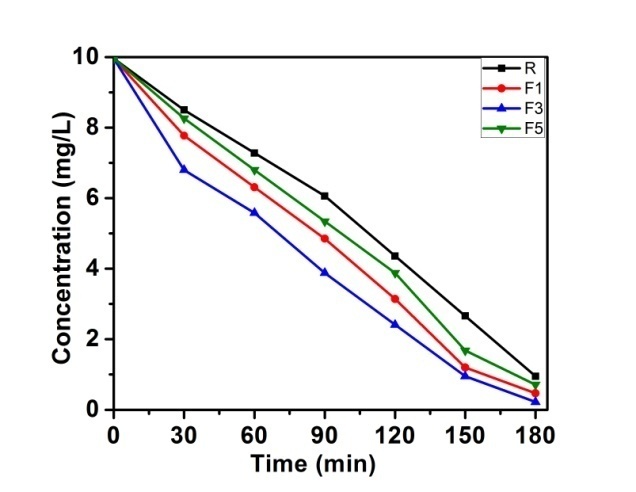
**Fig. $8**—*Comparative studies of XRD plots of sample before and after degradation*

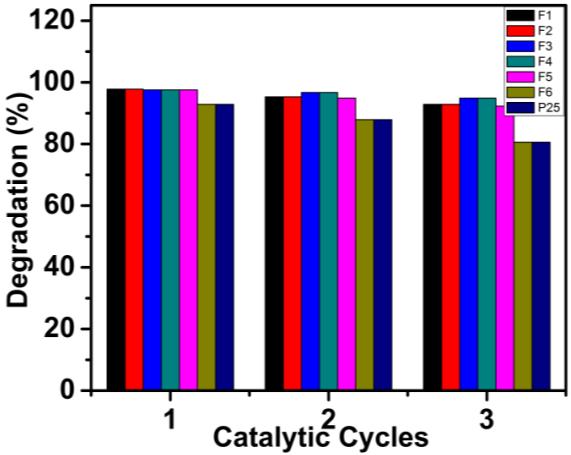
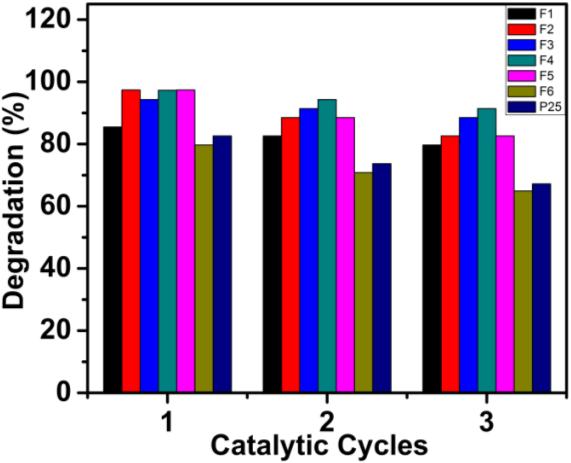
**Fig. $9**- *SEM of sample before degradation* **Fig. $10**- *SEM of sample after degradation*



**Fig. $11**— *UV degradation plots and Kinetics studies of MB*



**Fig. $12**— *UV degradation plots and Kinetics studies of MB*

**Fig. $13**—*Recyclability studies for MB* **Fig.$14**—*Recyclability studies for RB*