**Enhanced visible light photocatalytic performance of SnO2 nanoparticle co-doped with (Co, Nb) for organic dye degradation**

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**Figure S1. EDAX spectrum**

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| **Table S1: Calculated atomic weight percentage of pure and Co,Nb co-doped SnO2 nanoparticles** |
| **S. No** | **Sample** | **Estimated Composition** | **Observed Atomic Wt. %** | **Observed Elemental Composition** |
| **Nb** | **Co** | **Sn** | **O** |
| 1 | SnO2 | Sn0.1O0.2 | --- |  | 78.76 | 21.24 | Sn0.1O0.2 |
| 2 | 5mol% Co-SnO2 | Co0.005Sn0.095O0.2 | --- | 4.88 | 76.91 | 21.22 | Co0.005Sn0.095 O0.2 |
| 3 | 4mol% Co 1mol% Nb-SnO2 | Nb0.001Co0.004Sn0.095 O.0.2 | 1.58 | 3.52 | 75.12 | 21.28 | Nb0.001Co0.004Sn0.095 O.0.2 |
| 4 | 3mol% Co 2mol% Nb-SnO2 | Nb0.002Co0.003Sn0.095 O.0.2 | 1.92 | 2.68 | 74.30 | 21.02 | Nb0.002Co0.003Sn0.095 O.0.2 |
| 5 | 5mol% Nb-SnO2 | Nb0.005Sn0.095O0.2 | 4.93 |  | 78.28 | 21.10 | Nb0.005Sn0.095 O0.2 |

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**Figure S2. Photocatalytic performance of prepared catalyst under dark room atmosphere**