Electronic Supplementary Material (ESI) for Materials Advances.

A new heterostructures copper molybdate doped Aluminium phosphate nanocomposites for Photoreduction in aqueous 2-NA and 4-NA

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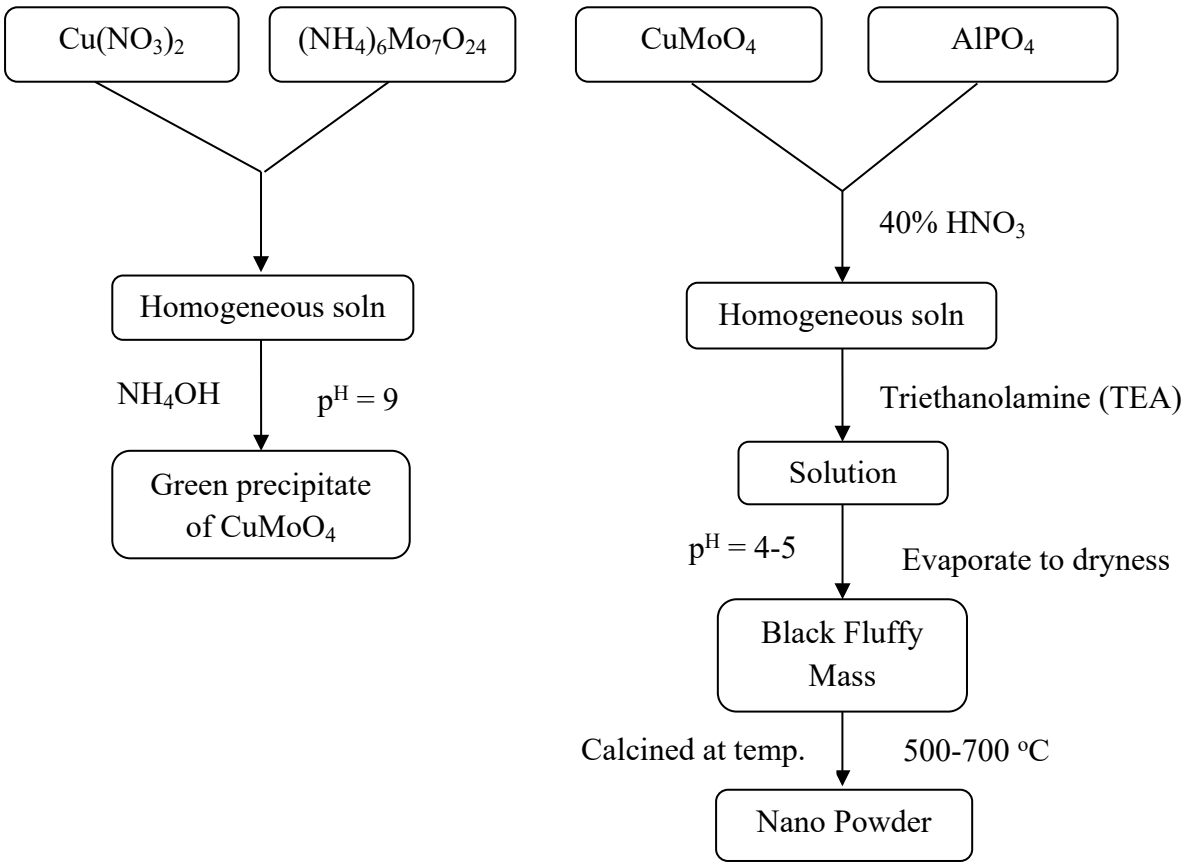
Supporting Information



Flowchart S1. Synthesis of various mol % of copper molybdenum doped aluminium phosphate $Cu_xMo_xAl_{1-x}P_{1-x}O_4$(x = 0.1, 0.5 and 0.9) nano photocatalysts.

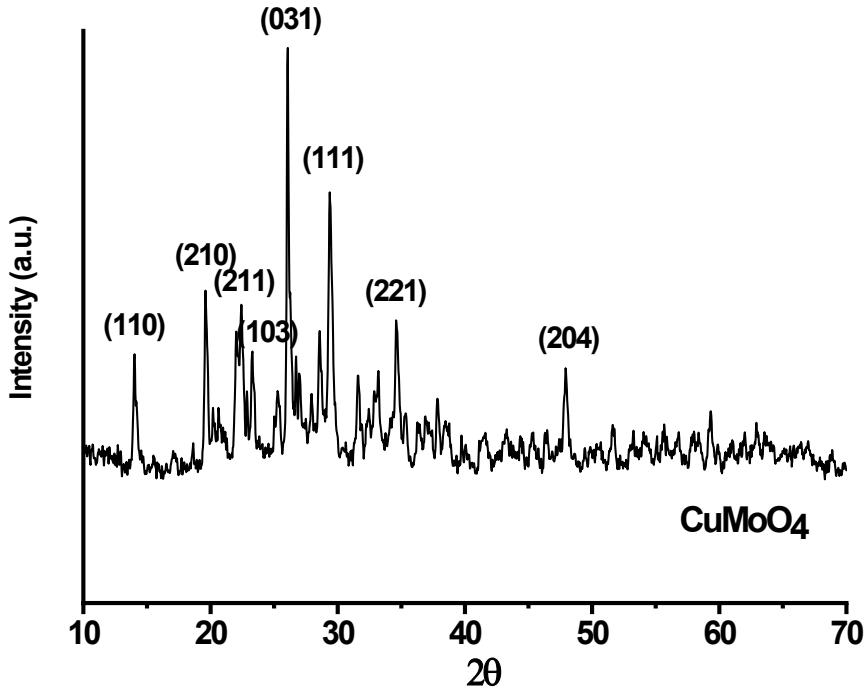


Fig. 1: SI 1 PXRD of CuMoO4

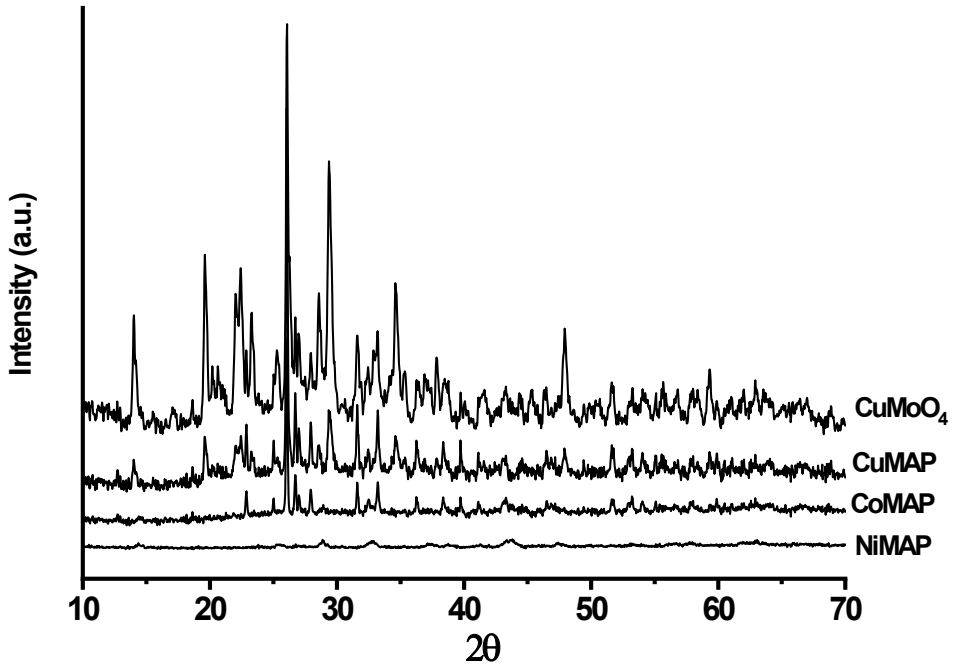


Fig. 2: SI 2 PXRD of $CuMoO_4$, CuMAP, CoMAP, NiMAP

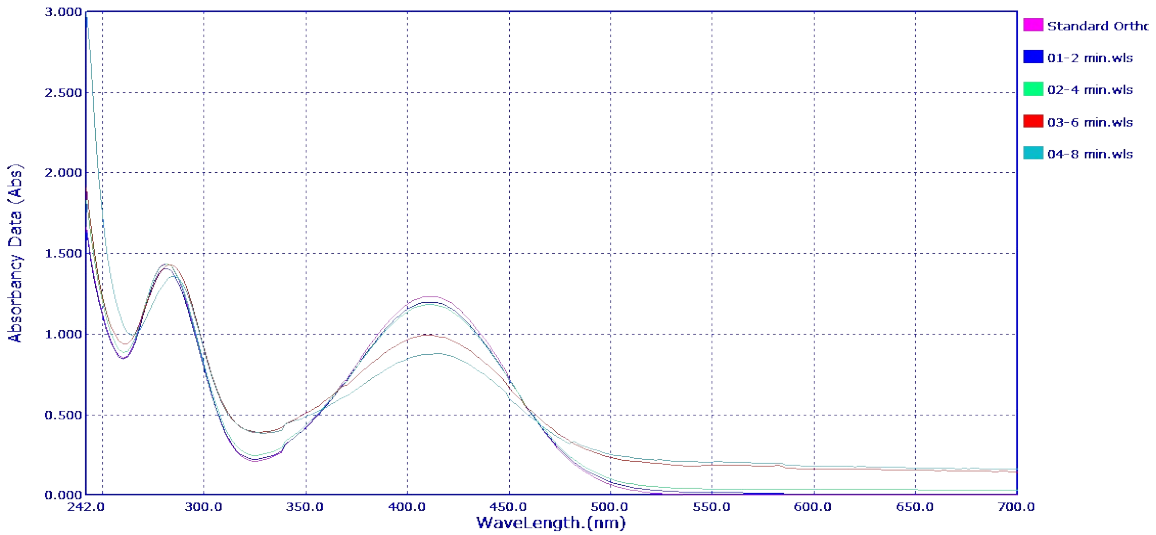


Fig. 3: SI 3 Concentration changes and corresponding UV absorption of 2-NA at small time interval (2min) in the presence of CAMP1.

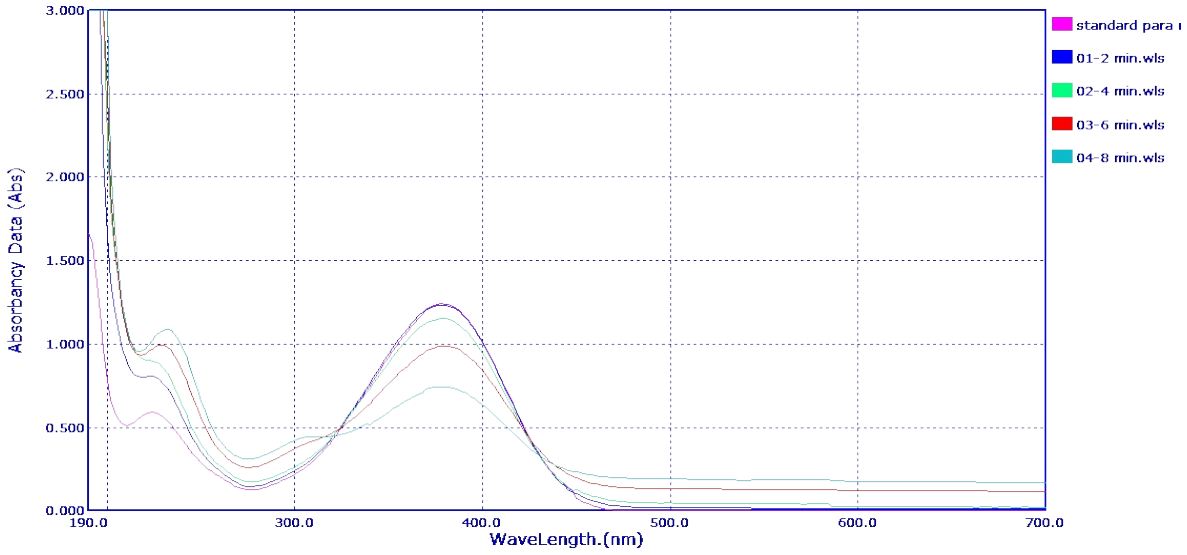


Fig. 4: SI 4 Concentration changes and corresponding UV absorption of 4-NA at small time interval (2min) in the presence of CAMP1.

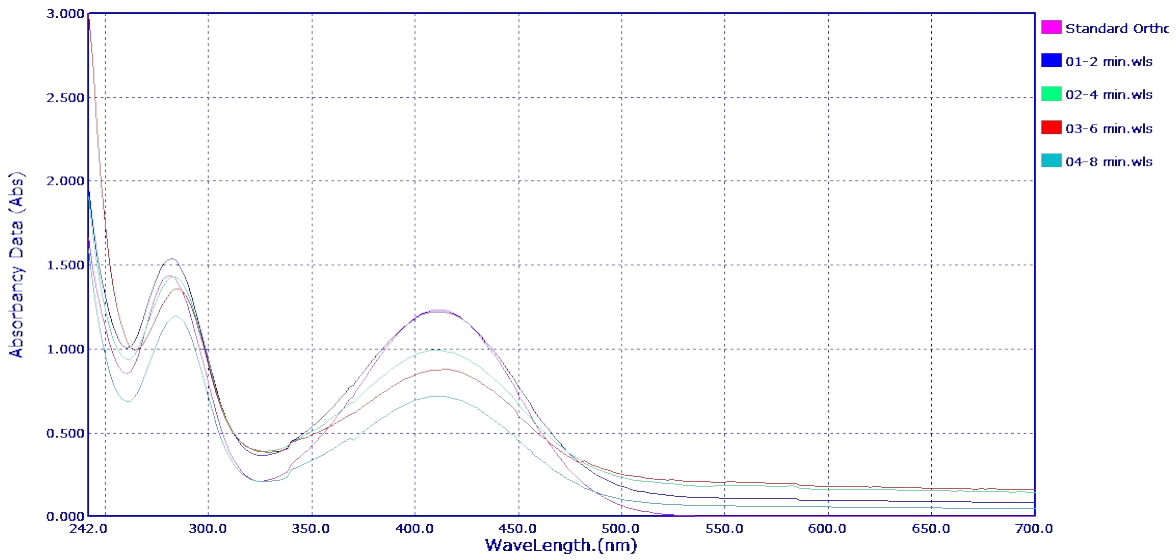


Fig. 5: SI 5 Concentration changes and corresponding UV absorption of 2-NA at small time interval (2min) in the presence of CAMP3.

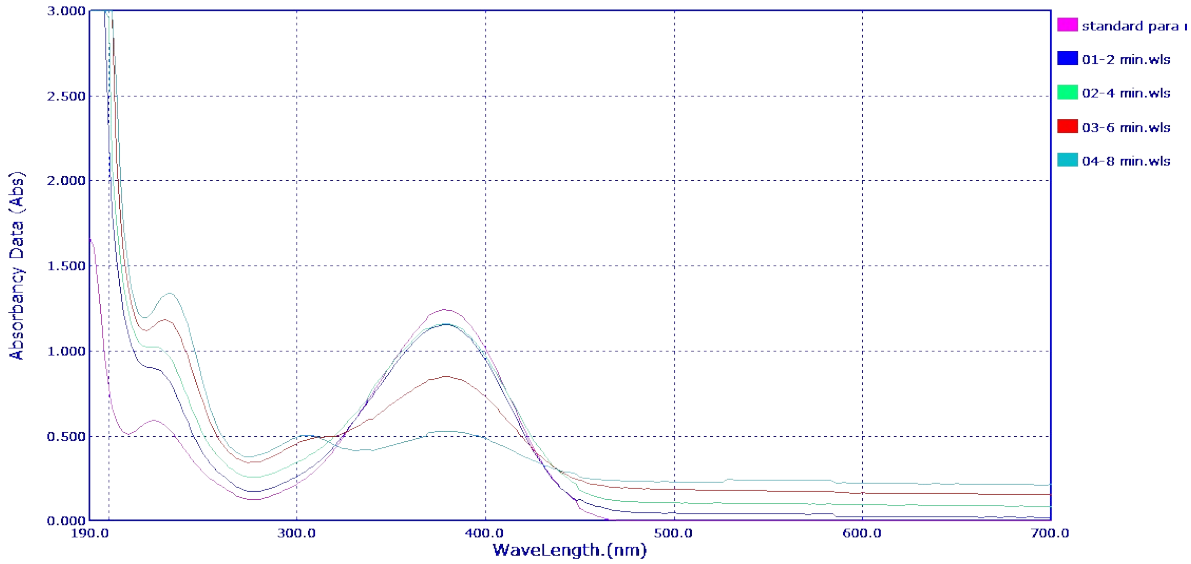


Fig. 6: SI 6 Concentration changes and corresponding UV absorption of 4-NA at small time interval (2min) in the presence of CAMP3.

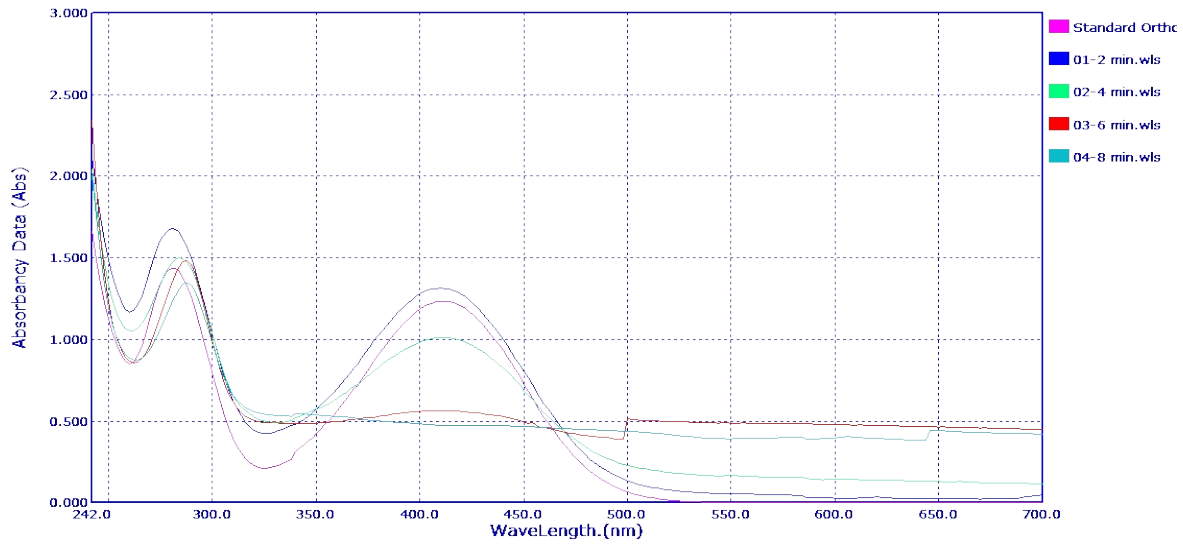


Fig. 7: SI 7 Concentration changes and corresponding UV absorption of 2-NA at small time interval (2min) in the presence of $CuMoO_4$.

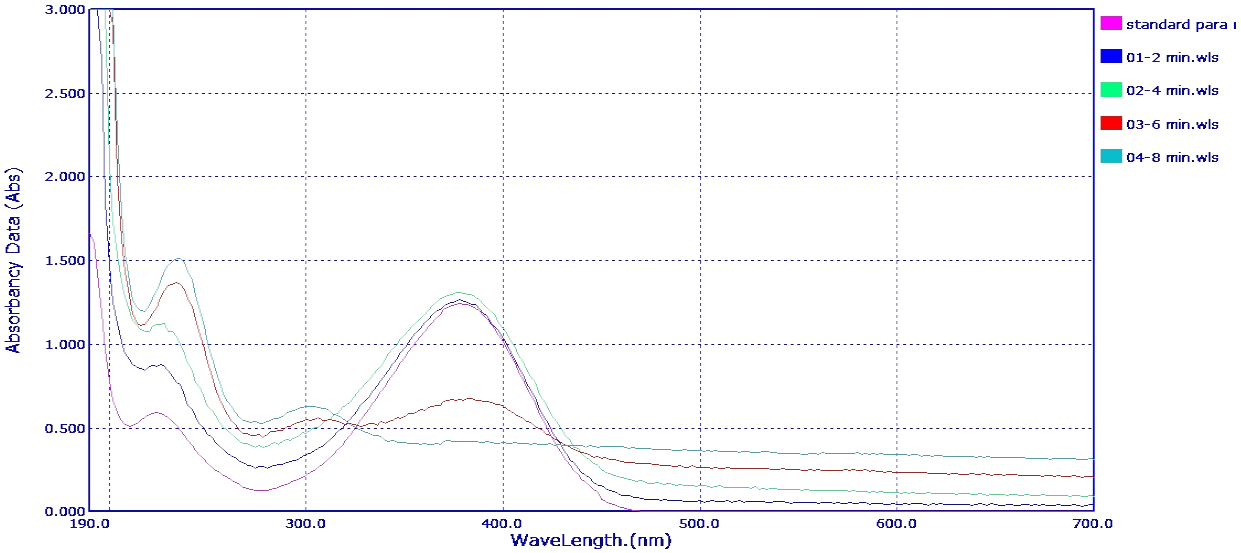


Fig. 8: SI 8 Concentration changes and corresponding UV absorption of 4-NA at small time interval (2min) in the presence of $CuMoO_4$.

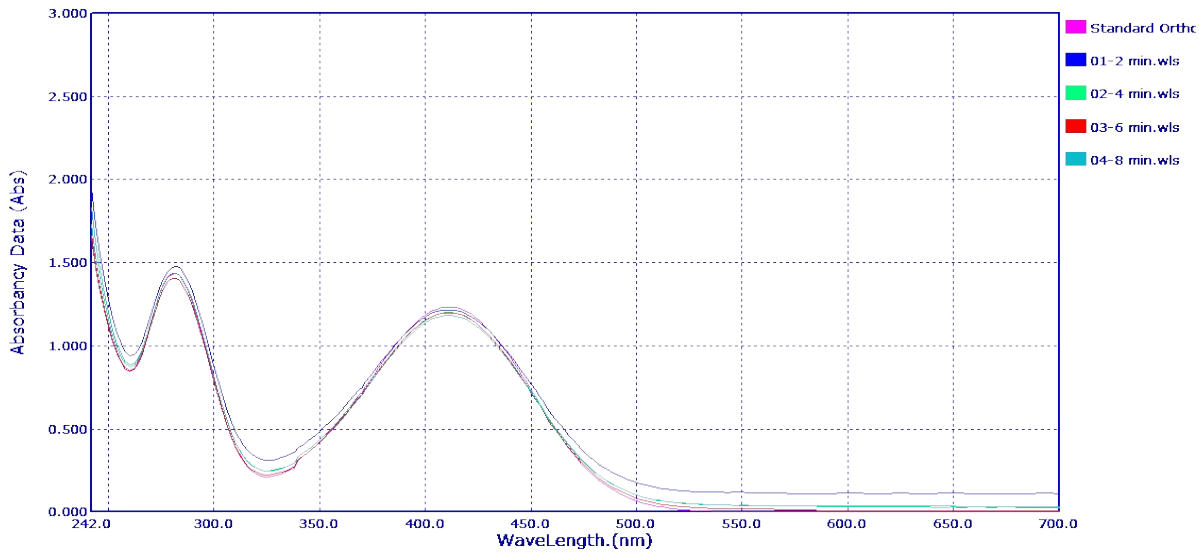


Fig. 9: SI 9 Concentration changes and corresponding UV absorption of 2-NA at small time interval (2min) in the presence of $AlPO_4$.

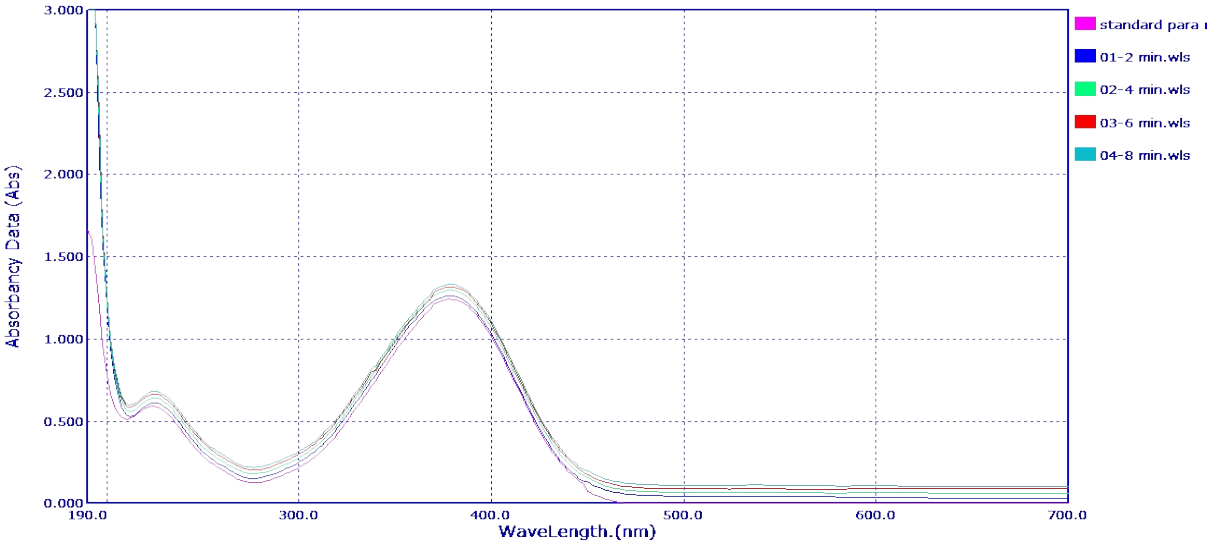


Fig. 10: SI 10 Concentration changes and corresponding UV absorption of 4-NA at small time interval (2min) in the presence of $AlPO_4$.

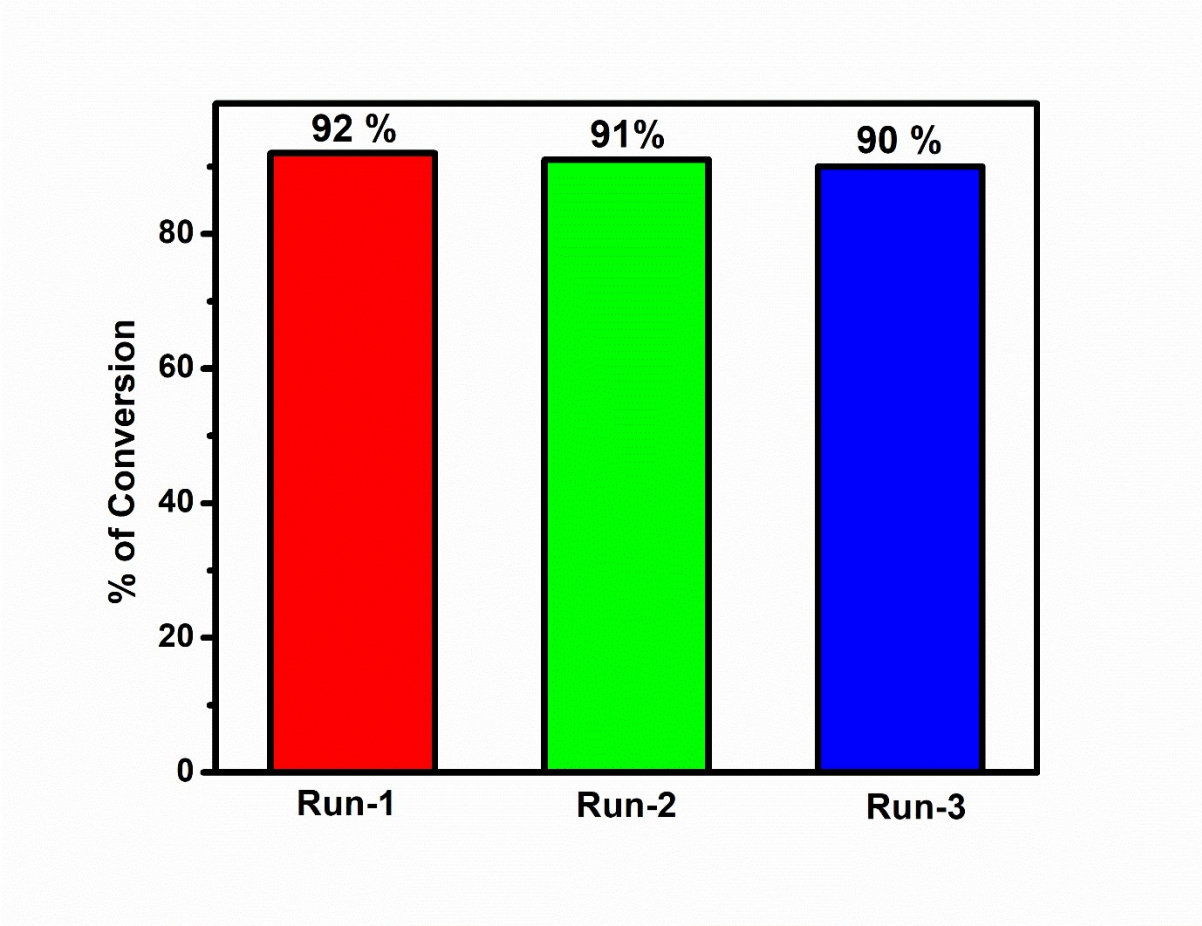


Figure 11: S11: Recyclability of the CuMAP2 for conversion of 4-NP to PPD under the same reaction condition