

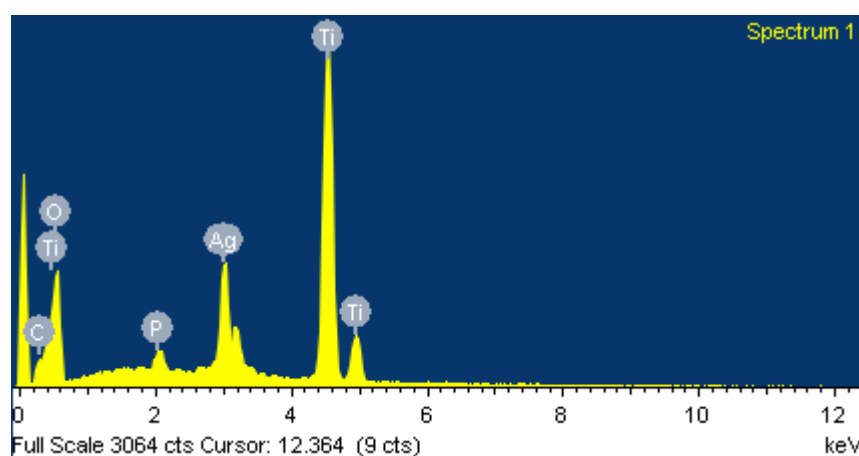
Supplementary Information for:

Ag₃PO₄-Deposited TiO₂@Ti₃C₂ Petals for Highly Efficient Photodecomposition of Various Organic Dyes under Solar Light

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Citation: Nguyen, N.T.A.; Kim, H. Ag₃PO₄-Deposited TiO₂@Ti₃C₂ Petals for Highly Efficient Photodecomposition of Various Organic Dyes under Solar Light. *Nanomaterials* **2022**, *12*, 2464. <https://doi.org/10.3390/nano12142464>

Academic Editors: Junying Zhang, Yong Chen and Jungang Hou

Received: 1 June 2022

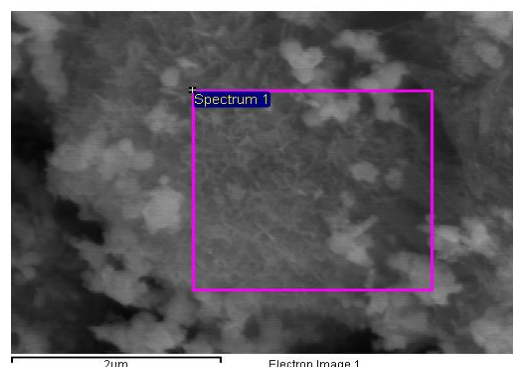
Accepted: 9 July 2022

Published: 18 July 2022

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Element	Atomic%
C K	6.61
O K	62.10
P K	0.89
Ti K	26.21
Ag L	4.18

Figure S1. EDS patterns of Ag₃PO₄/TiO₂@Ti₃C₂ (sample A4); the inset image shows a SEM image of the sample.

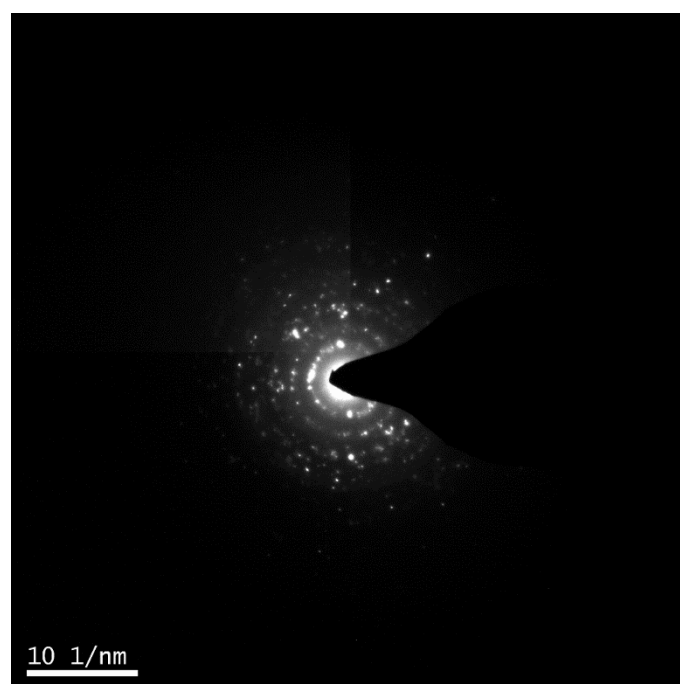


Figure S2. SAED image of $\text{Ag}_3\text{PO}_4/\text{TiO}_2/\text{Ti}_3\text{C}_2$ (sample A4) taken of an arbitrary area.

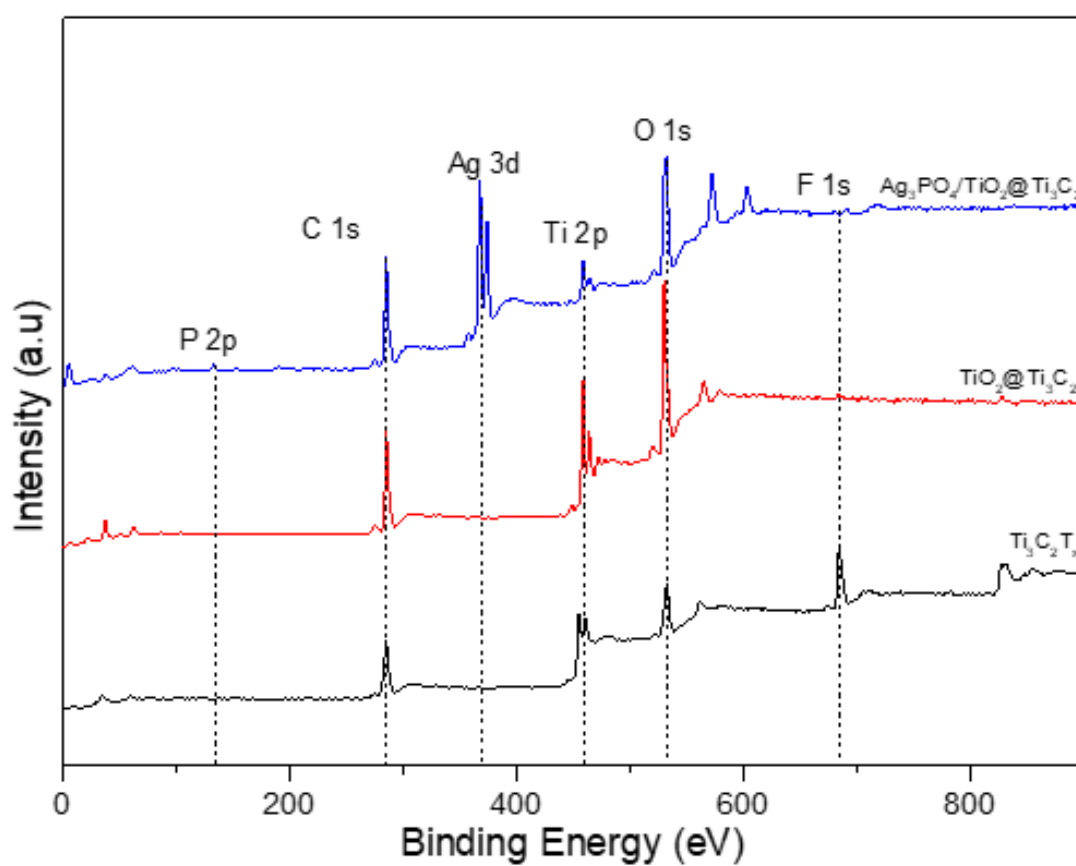


Figure S3. XPS survey spectra of Ti_3C_2 , $\text{TiO}_2/\text{Ti}_3\text{C}_2$ and $\text{Ag}_3\text{PO}_4/\text{TiO}_2/\text{Ti}_3\text{C}_2$.

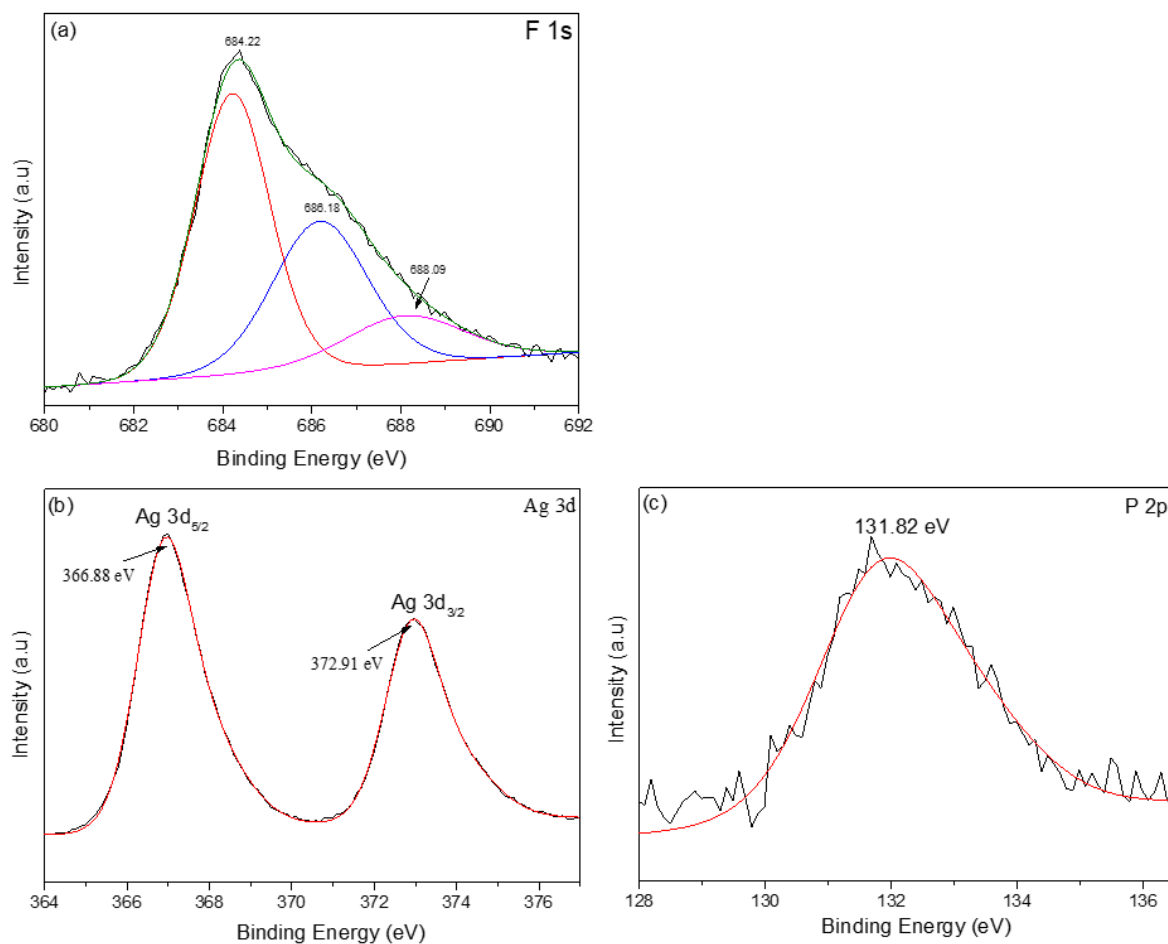


Figure S4. (a) F 1s high-resolution XPS spectra of Ti_3C_2 , and (b-c) Ag 3d and P 1s high-resolution XPS spectra of $\text{Ag}_3\text{PO}_4/\text{TiO}_2/\text{Ti}_3\text{C}_2$ (sample A4).

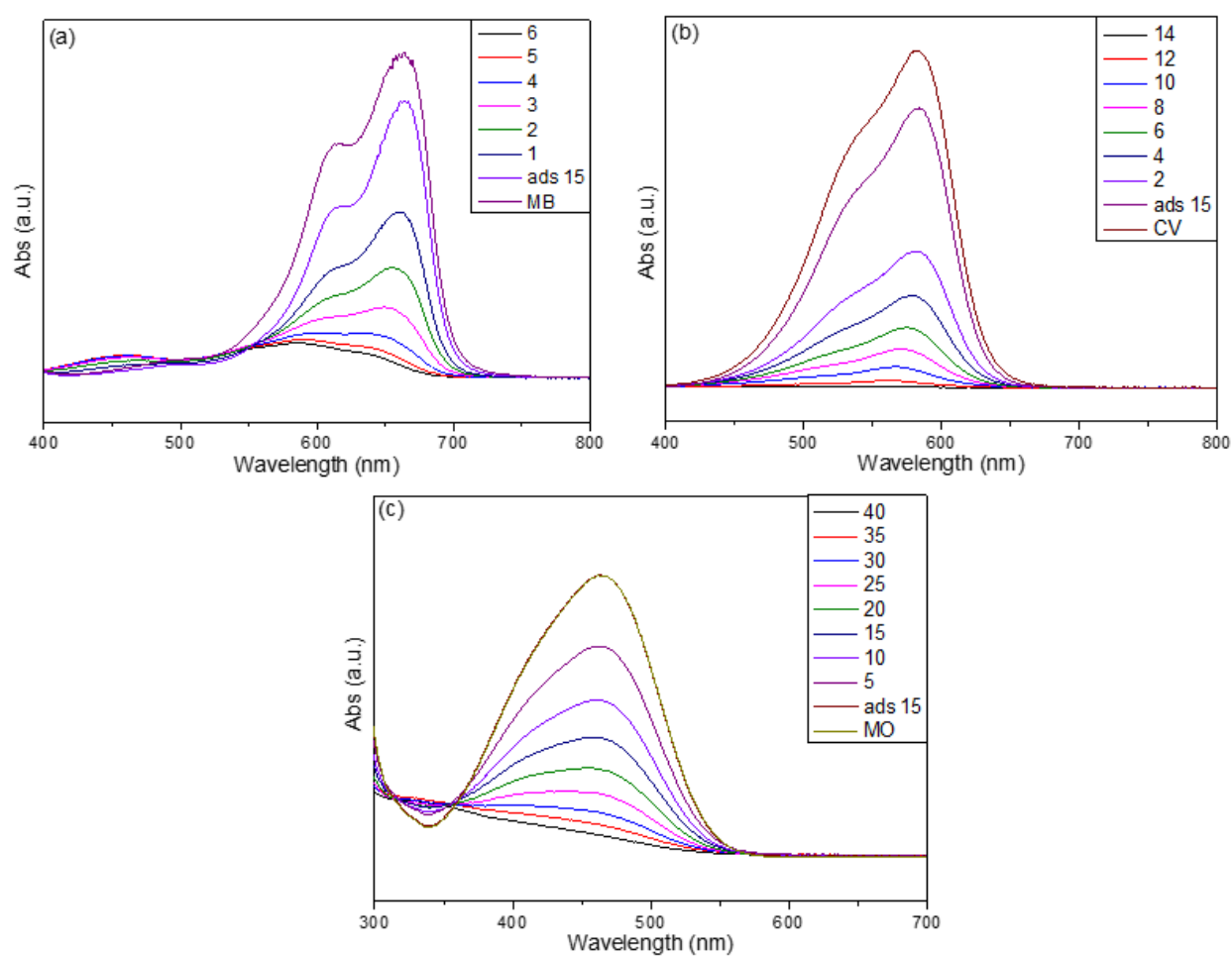


Figure S5. Photodegradation absorption spectra of (a) Methylene Blue, (b) Crystal Violet, (c) Methylene Orange under solar light.