

Supporting information

A new composite membrane based on Keggin Polyoxotungstate/ Poly(vinylidene fluoride) and its Application in Photocatalysis

*Hongxun Yang**, *Bingqian Shan*, and *Lei Zhang*

*School of Environmental & Chemical Engineering, Jiangsu University of Science and Technology,
Zhenjiang 212003, China*

*Corresponding author. Tel: + 86 511 84401181, Fax: + 86 511 84401181.
E-mail: yhongxun@126.com (H. Yang).

Table S1: The weight of PWT/PVDF before and after different cycle time, and PWT concentration in the PWT/PVDF before the 1st and after 8th cycle. MO concentration: 15 mg/l; pH: 2.5; Dosage: 2 g/l (PWT, 0.5 g/l); irradiation time: 2 hours.

Cycle time	Weight (g)	PWT (wt %)
before 1 st	0.20099	25.04
after 1 st	0.19941	
after 2 nd	0.19785	
after 3 rd	0.19702	
after 4 th	0.19608	
after 5 th	0.19464	
after 6 th	0.19339	
after 7 th	0.19233	
after 8 th	0.19113	24.31

Table S2: The weight of PVDF in the concentrated POM solution before and after different cycle time. POM concentration: 10 g/l; irradiation time: two hours.

Cycle time	Weight (g)
before 1st	0.20116
after 1st	0.20001
after 2nd	0.20025
after 3rd	0.19932
after 4th	0.19819
after 5th	0.19779
after 6th	0.19709
after 7th	0.19653
after 8th	0.19543