

Ti₃C₂Tx MXene量子点

1 技术参数 (Properties)

名称	Product name	Ti ₃ C ₂ Tx MXene 量子点 Ti ₃ C ₂ Tx MXene quantum dots
外观	Appearance	暗白色粉末 Dark white powder
尺寸	Size	2-5nm (HRTEM)

2 表征测试图 (Characterizations)



图 1 Ti₃C₂Tx MXene 量子点水溶液 (1mg/ml) 在 365 nm 紫外灯下的照片 (左) 和粉末的照片 (右)

Fig.1 Photos of Ti₃C₂Tx MXene quantum dots solution (1mg/ml) under 365 nm UV lamp (left) and powder(right)

表 1 Ti₃C₂Tx MXene 量子点元素分析

Table1 Elemental analysis of Ti₃C₂Tx MXene quantum dots

元素/Element	重量百分比/Wt%	原子百分比/At%
C	6.44	9.77
O	5.99	6.82
F	86.27	82.79
Cl	0.92	0.47
Ti	0.38	0.15

备注: 此数据为单次测量数据, 不同批次间允许浮动。

Note: This is a single measurement data, allowing floating between different batches.

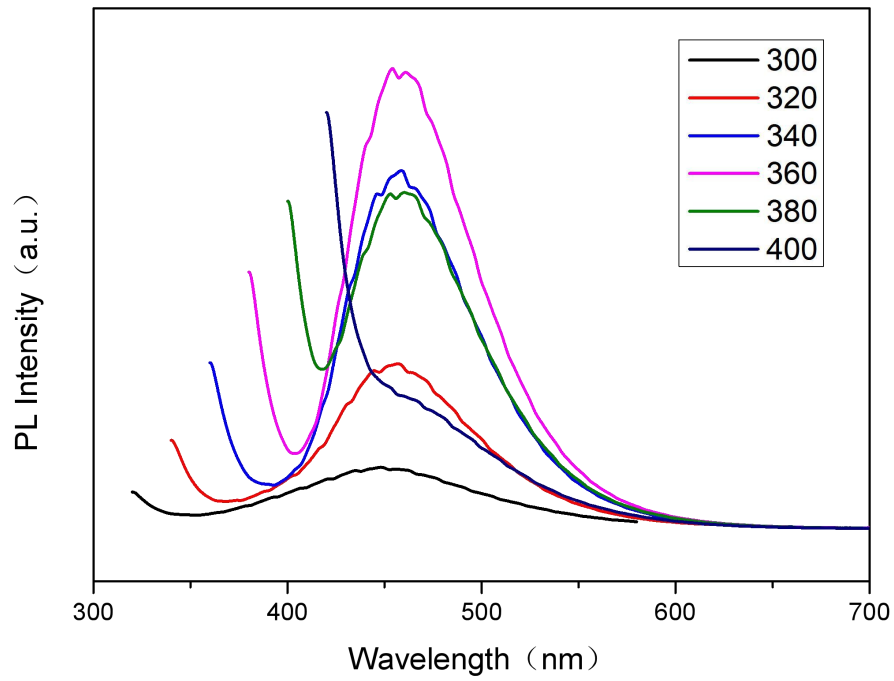


图 2 $\text{Ti}_3\text{C}_2\text{Tx}$ MXene 量子点水溶液 (1mg/ml) 的 PL 谱图
Fig.2 PL spectrum of $\text{Ti}_3\text{C}_2\text{Tx}$ MXene quantum dots in water (1mg/ml)

(注: 该谱图为单次测量数据, 不同批次间允许浮动。)

(Note: This spectrum is a single measurement data, allowing floating between different batches.)

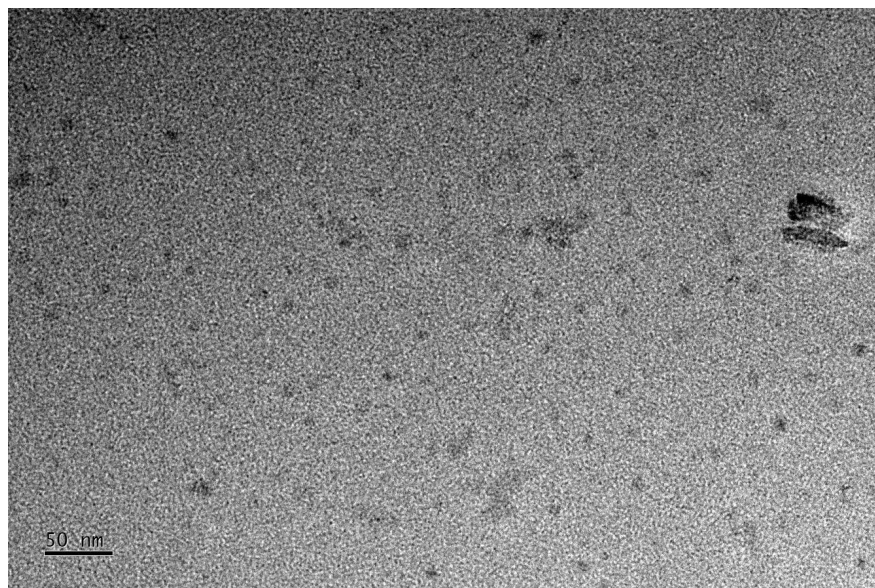


图 3

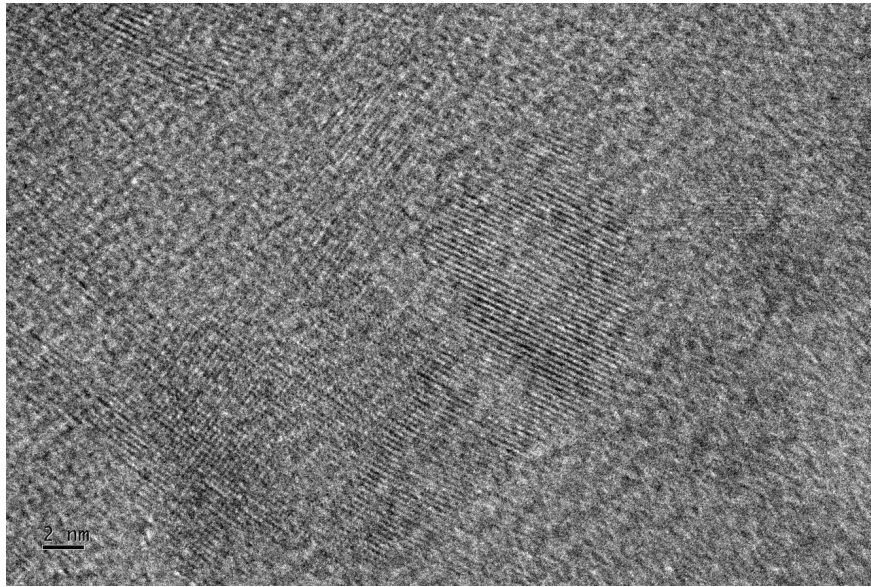


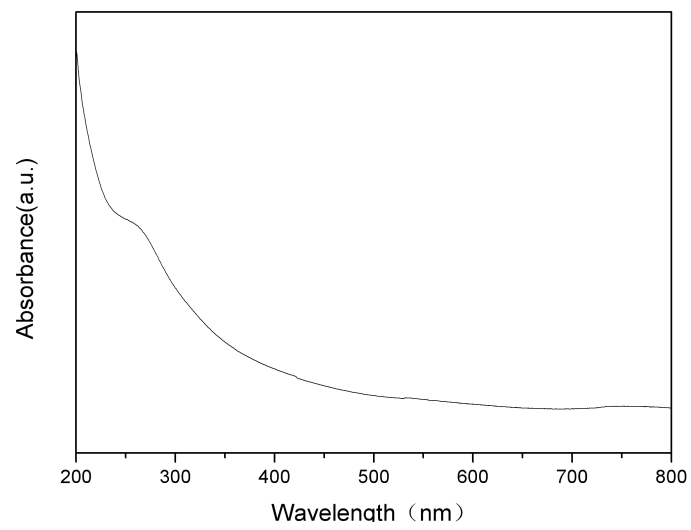
图 4

图 3,4 Ti₃C₂T_x MXene 量子点的透射电镜图

Fig.3,4 HRTEM images of Ti₃C₂T_x MXene quantum dots

图 5 Ti₃C₂T_x MXene 量子点水溶液 (1mg/ml) 的吸收光谱

Fig.5 Absorption spectrum of Ti₃C₂T_x MXene quantum dots (1mg/ml)



3 应用领域 (Application Fields)

光电、传感、荧光材料等。

Photoelectric, sensing, fluorescence materials etc.

4 储存条件 (Storage Conditions)

密封氮气常温保存，保质期 1 个月。

Seal, nitrogen storage at room temperature. Expiry date: One months.
