

# **Efficient adsorption performance of uranium in wastewater by novel MXene material TiVCT<sub>x</sub> and its aerogel composites**

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Table S1 Mocledn's artificial seawater formula (salinity 3.34%)

Chemical formula	Concentration (g L <sup>-1</sup> )
NaCl	26.726
MgCl <sub>2</sub>	2.26
MgNO <sub>3</sub>	5.845
CaCl <sub>2</sub>	1.153

Adjusting the pH of a 100 mL, 125 mg/L U(VI) solution solely with NaOH reveals minimal changes in U(VI) concentration across varying pH levels. Only a negligible amount of U(VI) precipitates, hence its effect on adsorption can be disregarded.

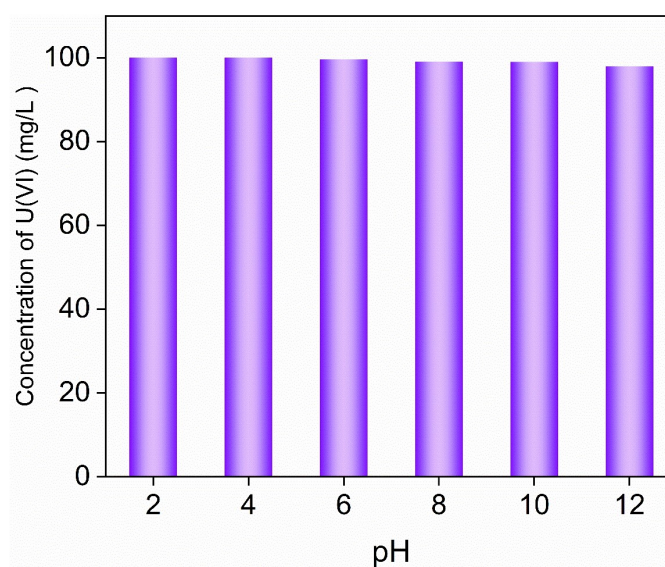


Fig. S1 The influence of NaOH-adjusted pH on U(VI) concentration.