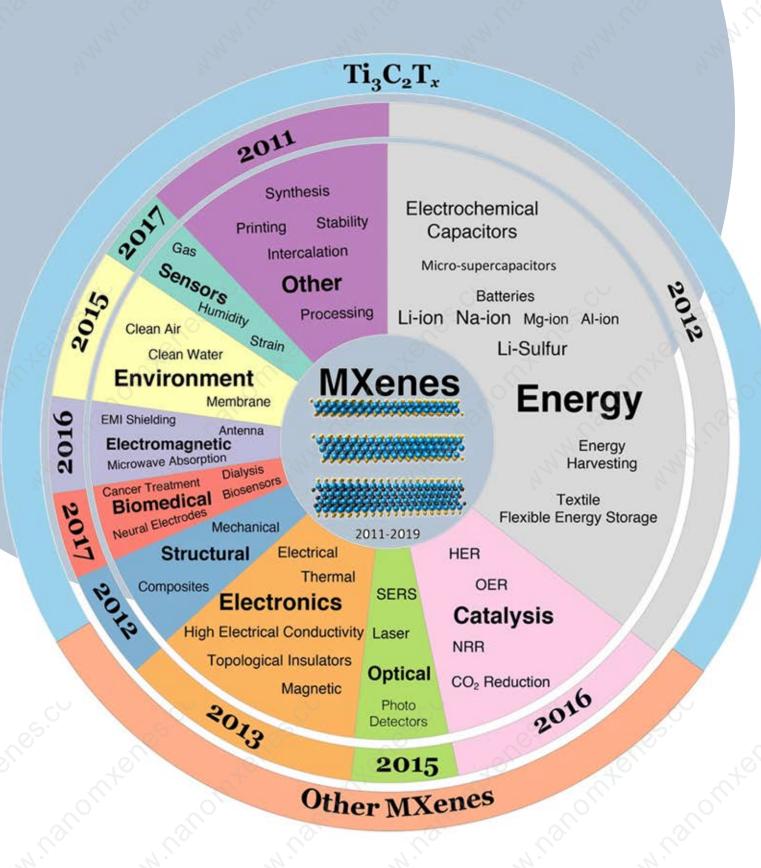
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## The Rise of MXenes



#### **Product Presentation**

#### MXene product 1 high-yield precursor Ti<sub>3</sub>AlC<sub>2</sub>

Product Features: It reached a purity of about 99%, after the etching, the multiple organ Ti<sub>3</sub>C<sub>2</sub> with good morphology can made. By adopting the appropriate scheme, we can get a high yield of unilaminar Ti<sub>3</sub>C<sub>2</sub>. This method has good repeatability after many experiments.

# MXene product 3 argillaceous Ti<sub>3</sub>C<sub>2</sub>

Product Features: clay material, after ultrasonic centrifugation, it can be dispersed into a single layer of material, the yield is about 25~35%. The ultrasonic power needs more than 160W, it takes 1.5h~6h.

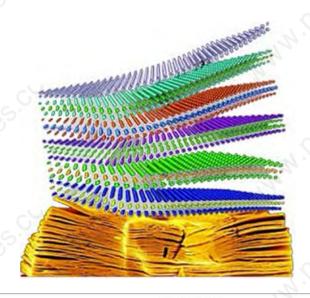
# MXene product 2 multiple organ Ti<sub>3</sub>C<sub>2</sub>

Product Features: with good morphology, the multiple organ Ti<sub>3</sub>C<sub>2</sub> can be used directly in experiment or can be striped by appropriate scheme.

# MXene product 4 colloidal solution of unilaminar Ti<sub>3</sub>C<sub>2</sub>

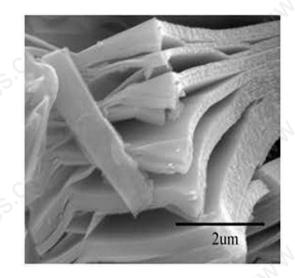
**Product Features: the solution** is water, it can be used directly after receiving goods, greatly saves the time of scientific research. stable material technology, reliable quality. the average Ti,C, sheet size is about 500~800 nanometers, meet most customer needs, in addition, you can customize the super-large layer and small layer materials.common products are water solvents, we can provide organic solvent. about the Ti<sub>3</sub>C<sub>2</sub>, if you have any other customizations, such as assembly, modification, please contact us.

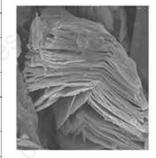
#### **Product Price List**

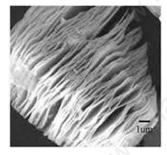


	, N	AAX material - MXe	ne'sprecursor		
Ti <sub>3</sub> AlC <sub>2</sub>	300 mesh	35USD/10g	400 mesh	50USD/10g	
Ti <sub>2</sub> AlC	300 mesh	35USD/10g	400 mesh	70USD/10g	
Mo <sub>3</sub> AlC <sub>2</sub>	300 mesh	85USD/5g	400 mesh	110USD/5g	
Nb <sub>2</sub> AlC <sub>3</sub>	300 mesh	110USD/5g	400 mesh	128USD/5g	
V <sub>2</sub> AlC	300 mesh	110USD/5g	400 mesh	130USD/5g	
Ti <sub>3</sub> SiC <sub>2</sub>	300 mesh	65USD/10g	400 mesh	70USD/5g	
Cr <sub>2</sub> AlC	400 mesh	150USD/5g			
Ta <sub>2</sub> AlC	400 mesh	150USD/5g		9.	
Ta <sub>4</sub> AlC <sub>3</sub>	400 mesh	285USD/5g			
Nb <sub>4</sub> AlC <sub>3</sub>	400 mesh	268USD/5g		3	
V <sub>4</sub> AlC <sub>3</sub>	400 mesh	435USD/5g			
1					

	Product name	Technique	Price	Details
	Product name	Technique	Price	Details
Ti3C2	Organ-like material	HF Treatment	70USD/g	Organ-like material obtained by etching with HF.
	Clay materials	LiF Treatment	115USD/g	Clay material, which can be dispersed as a single layer material by ultrasonic centrifugation, yields about 25-35%. Ultrasound power needs more than 160W, and the time is about 2 h to 6 h.
	Single/Layer Colloidal Solution	5mg/ml	50USD/bottle 10ml/bottle	The colloidal solution of single/few layer village material that has Tindal phenomenon and can be used directly.
	Single/Layer Colloidal Solution	10mg/ml	70USD/bottle 10ml/bottle	The colloidal solution of single/few layer village material that has Tindal phenomenon and can be used directly.
	Single layer colloidal DMF solution	5mg/ml	85USD/bottle 10ml/bottle	The colloidal solution of single/few layer village material that has Tindal phenomenon and can be used directly.
	Self-supporting membrane materials	Vacuum suction filtration	120USD/pcs	Flexible membranes obtained from the colloidal solution of single/small-layer village materials by vacuum filtration.
Ti2C	Organ-like material	HF Treatment	120USD/g	Organ-like material obtained by etching with HF.
	Single/Layer Powder Material	Freeze drying	450USD/500mg	Powder obtained by freeze-drying of colloidal solution of single/small layer village material.
Nb2C	Organ-like material	HF Treatment	285USD/g	Organ-like material obtained by etching with HF.
	Single/Layer Powder Material	Freeze drying	485USD/500mg	Powder obtained by freeze-drying of colloidal solution of single/small layer village material.
V2C	Organ-like material	HF Treatment	270USD/g	Organ-like material obtained by etching with HF.
	Single/Layer Powder Material	Freeze drying	485USD/500mg	Powder obtained by freeze-drying of colloidal solution of single/small layer village material.
Mo₃C₂	Single/Layer Powder Material	Freeze drying	600USD/g	Powder obtained by freeze-drying of colloidal solution of single/small layer village material.
Cr <sub>2</sub> C	Single/Layer Powder Material	Freeze drying	500USD/g	Powder obtained by freeze-drying of colloidal solution of single/small layer village material.
Ta <sub>2</sub> C	Single/Layer Powder Material	Freeze drying	550USD/g	Powder obtained by freeze-drying of colloidal solution of single/small layer village material.
Ta <sub>4</sub> C <sub>3</sub>	Single/Layer Powder Material	Freeze drying	600USD/g	Powder obtained by freeze-drying of colloidal solution of single/small layer village material.
Nb <sub>4</sub> C <sub>3</sub>	Single/Layer Powder Material	Freeze drying	675USD/g	Powder obtained by freeze-drying of colloidal solution of single/small layer village material.
V <sub>4</sub> C <sub>3</sub>	Single/Layer Powder Material	Freeze drying	675USD/g	Powder obtained by freeze-drying of colloidal solution of single/small layer village material.



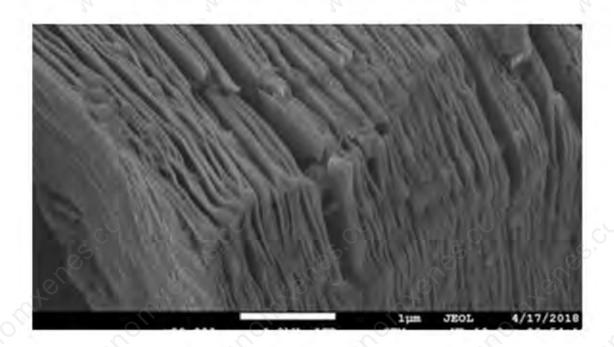




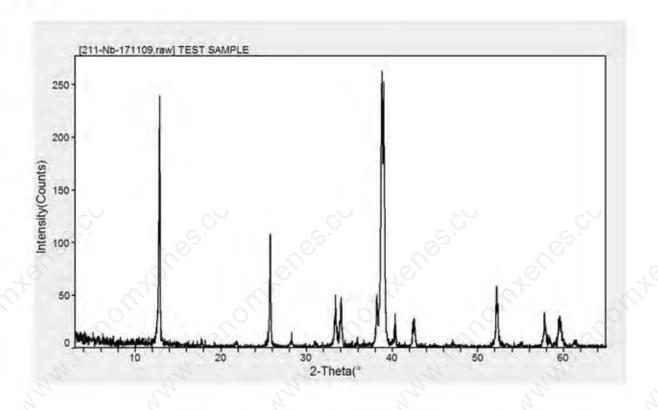


#### Nb<sub>2</sub>C MXene Product Characterization

#### **SEM**

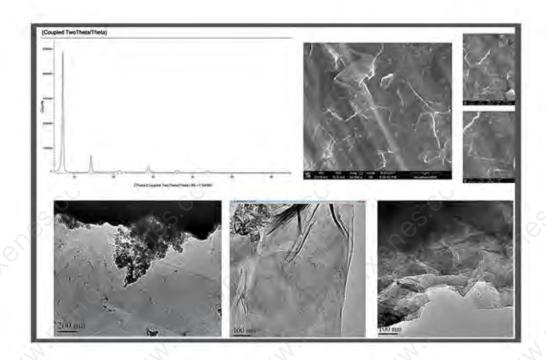


#### **XRD**

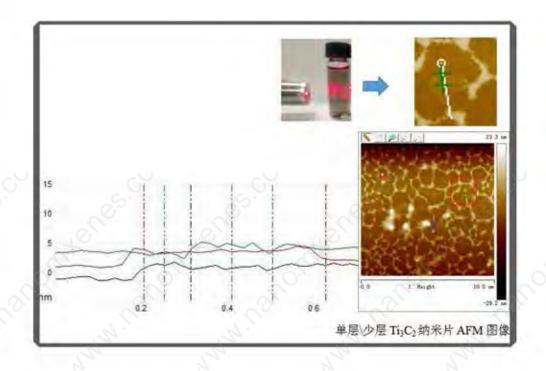


#### Ti<sub>3</sub>C<sub>3</sub> MXene Product Characterization

#### **TEM**

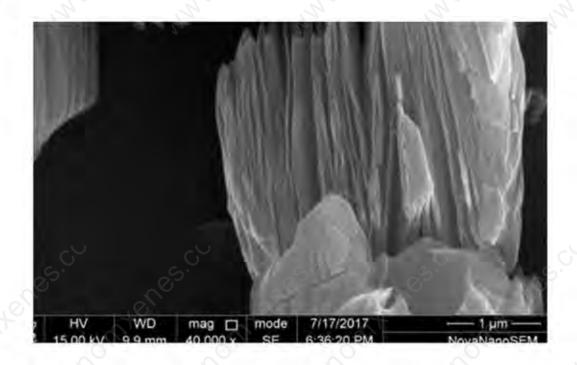


#### **AFM**

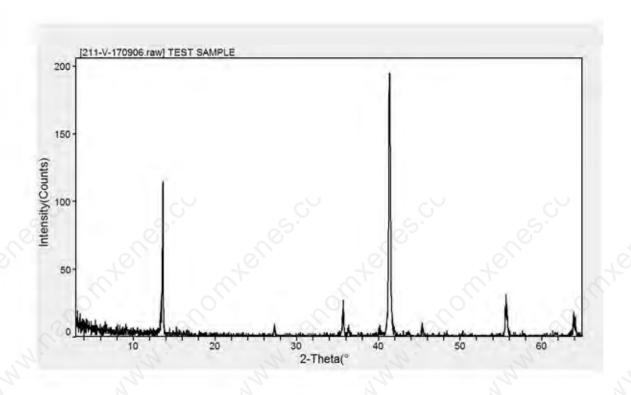


#### V<sub>2</sub>C MXene Product Characterization

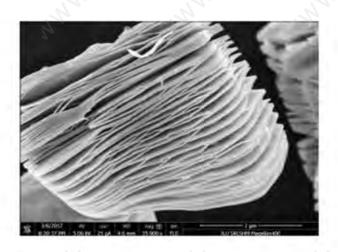
#### SEM



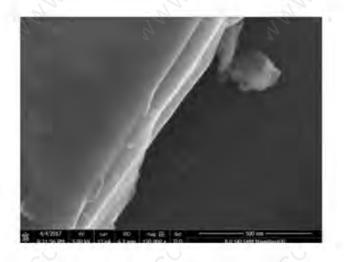
#### **XRD**



## Ti<sub>3</sub>C<sub>2</sub> free standing film



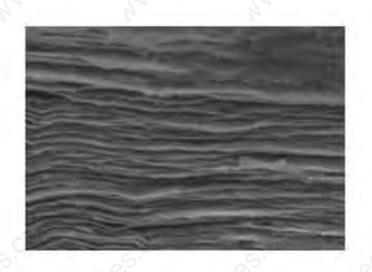
multilayer Ti<sub>3</sub>C<sub>2</sub>



less layer Ti<sub>3</sub>C<sub>2</sub>



Ti<sub>3</sub>C<sub>2</sub> flexible membrane



flexible section of Ti<sub>3</sub>C<sub>2</sub>

# Beike 2D Materials don't just own these products, we also have the following products and services:

Nanomaterial customization/Material simulation calculation/Material testing

CVD TMDC 2D thin film/heterojunction MOFs&COFs

**Anodic Aluminum Oxide** 

One-dimensional nanomaterial

Molecular sieve

Mesoporous carbon and carbon nanomaterials

Nanosphere

Perovskite materials

2D crystal material

**QDS** 

Ionic liquid

# If you need other products, please contact us.

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