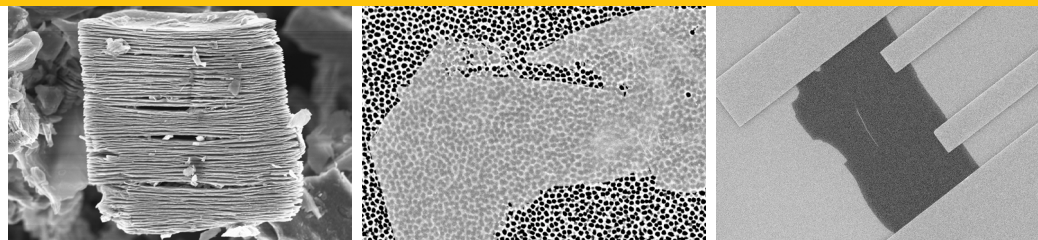
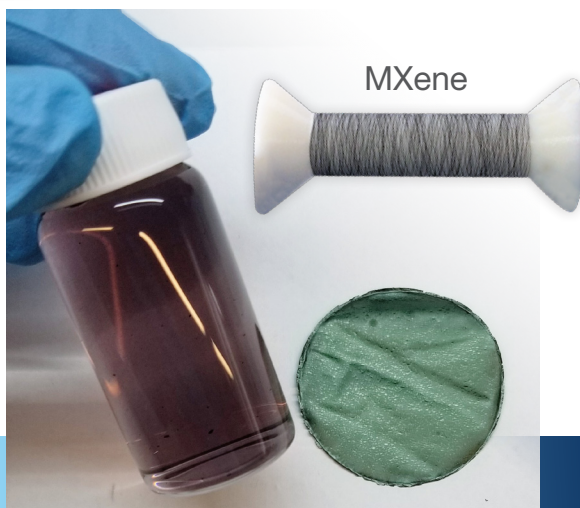
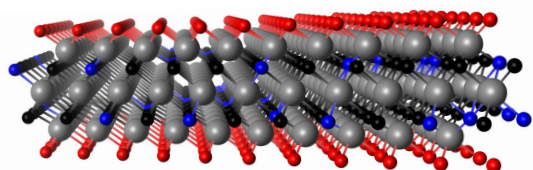


# ABOUT MXenes

MXenes conduct electricity like metals, but they are nanometer (one billionth of a meter) thin flakes like graphene. They can also be dispersed in water like clay.



## CAPABILITIES:

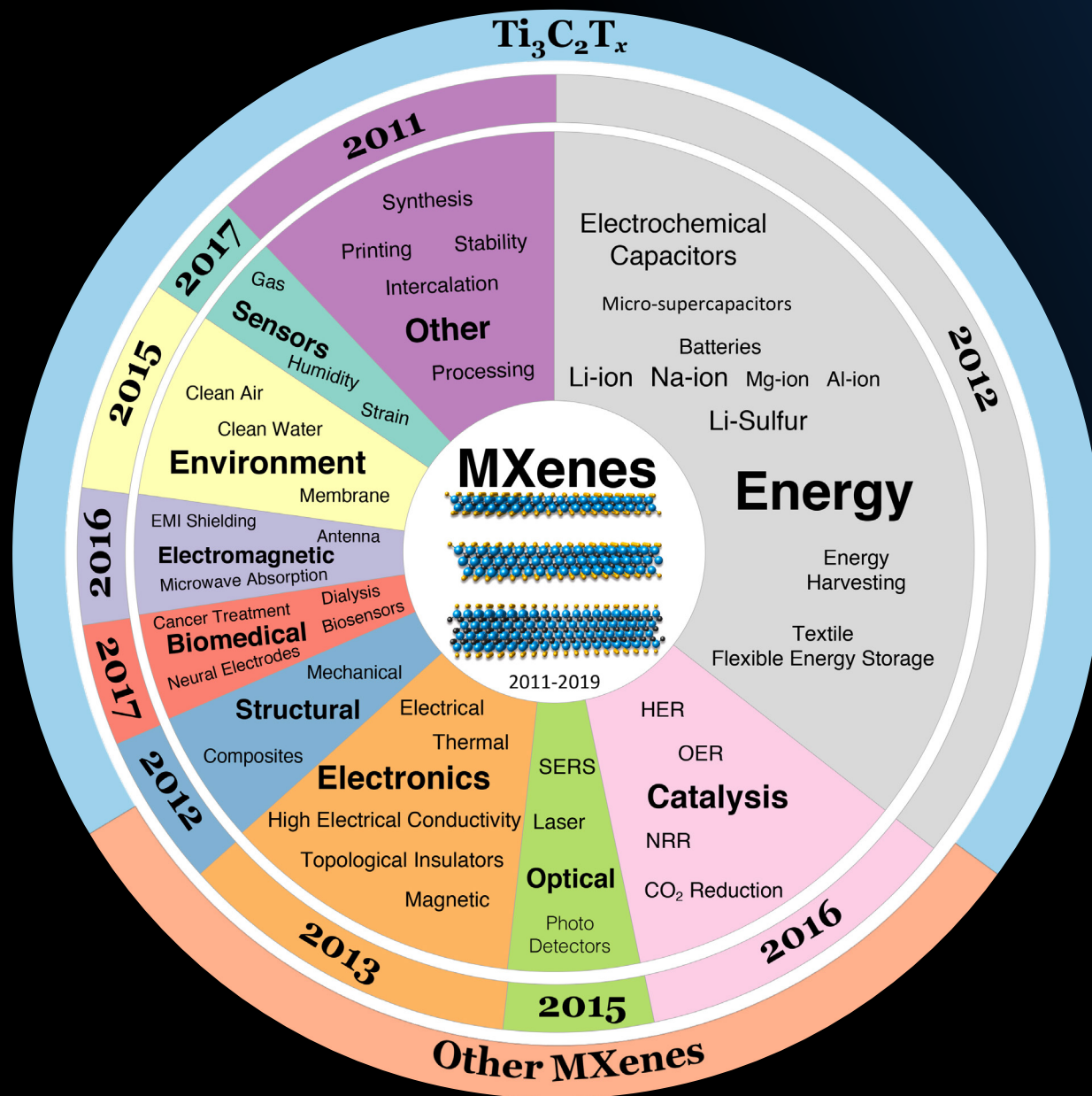


- ▶ Store energy much faster than carbon and other materials used in current batteries and supercapacitors
- ▶ Treat cancer
- ▶ Make wearable kidney a reality
- ▶ Increase strength of plastics, metals and ceramics
- ▶ Create energy storing windows that can change color when a small voltage is applied
- ▶ Protect our electronics (cell phones, etc.) from electromagnetic noise and also protect our credit card information from being stolen
- ▶ Generate printable antennas for 5G communication and Internet of Things
- ▶ Purify water and produce drinking water from salt water
- ▶ Sense dangerous species in air
- ▶ Enable a new generation of flexible and printable electronic and optoelectronic devices
- ▶ Remove toxic heavy and radioactive elements from water

## DID YOU KNOW?

- ▶ MXene inks can be printed onto almost any surface and they don't require any additives — just disperse MXene flakes in water and print, stamp, paint or infiltrate with it.
- ▶ MXenes come in a variety of colors. They can be produced as single flakes/layers of one nanometer in thickness, as well as films, powders and even fibers.





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