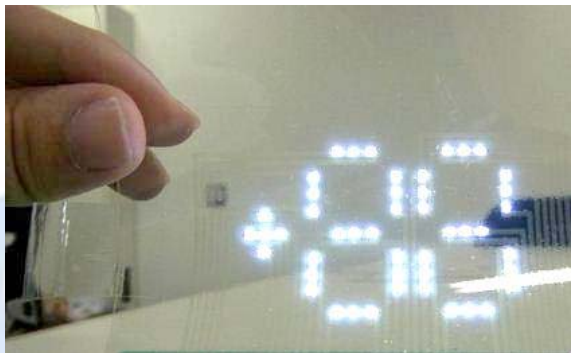


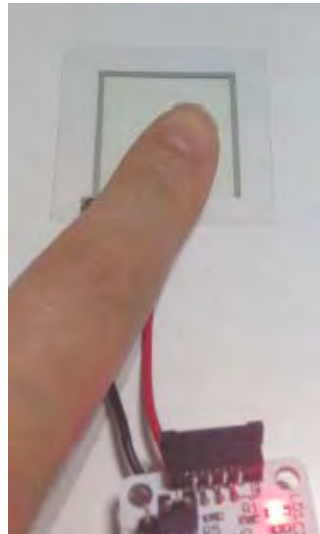
Product Example

Using Ag nanowire transparent conductive film(TCF), transparent wiring and sensors can be formed.

Ag nanowire TCF



Display Device



Touch sensor

Our technologies

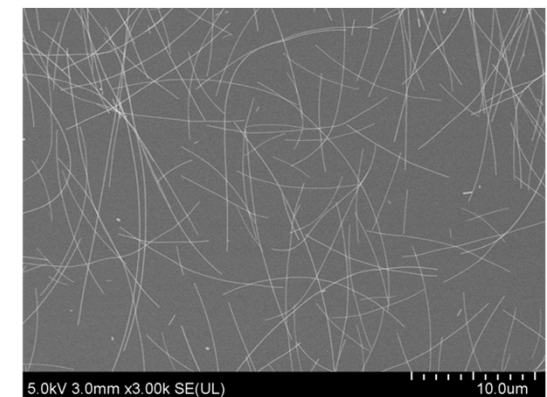
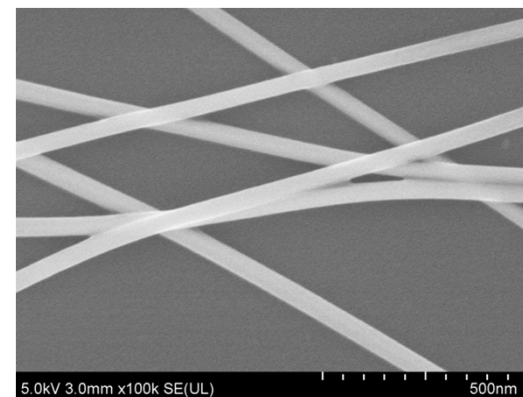
Utilizing our accumulated metallic, inorganic, and organic material technologies, we can offer functional raw materials to meet customers' demands.

Moreover, in cooperation with external organizations, we can provide Ag nanowire TCF.

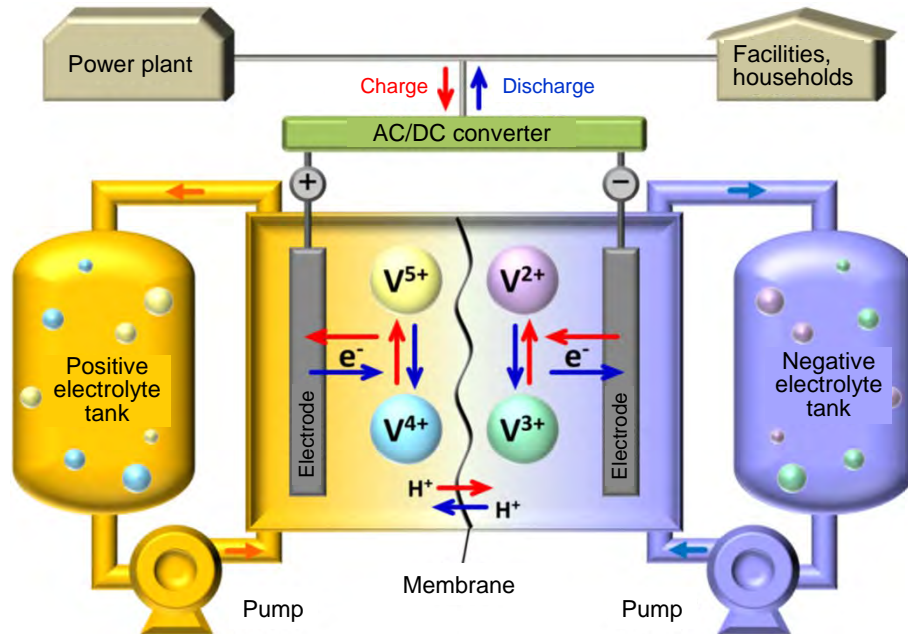
Characteristics of Ag nanowire TCF

- ◆ Optical (High transparency, Low-Haze)
- ◆ Electrical (Low resistivity)
- ◆ Adhesion
- ◆ Robust (humidity, heat, light)
- ◆ Decorative forming
- ◆ Bendable etc.

Ag nanowire



Product example



Principle of RFB

A battery that charges/discharges through the oxidation-reduction reaction of vanadium ions



20 kW demonstration stack

Our technologies

- Integrating traditional technologies into new business -

■ VGCF™

Developed sheet-type electrodes made of VGCF™

■ Bipolar plate

Achieved lower resistance by developing a special electrode structure making full use of VGCF™

■ Cell stack

Applied cell stack technology we have developed in the electrolysis business for 70 years

■ Vanadium recovery

Achieved low cost by developing technology to recover vanadium from ash from power plants