



## Plastics made from CO<sub>2</sub> in the air!

Showcasing research from Professor Licht's laboratory, at Direct Air Capture LLC, Carbon Corp, and the School of Chemistry, George Washington University, Washington DC, USA.

Polymer composites with carbon nanotubes made from CO<sub>2</sub>

"The world on our shoulders" is a statue made from CO<sub>2</sub> in the air. Electrolysis transforms CO<sub>2</sub> to carbon nanotubes by the group's molten carbonate electrolysis C2CNT<sup>®</sup> decarbonization patented process and is 3D printed as a PLA-CNT composite. These carbon nanotube-plastic composites remove CO<sub>2</sub> and also use less polymer to achieve strength, thereby lowering the polymer's carbon footprint. C2CNT<sup>®</sup> is a DAC<sup>®</sup> (Direct Air Capture) and CCUS (Carbon Capture and Utilization) technology that has been scaled to industrial capacity at the Licht team's laboratories in Carbon Corp, Calgary, Canada (Carboncorp.org).

### As featured in:



See Stuart Licht *et al.*, *RSC. Sustainability.*, 2024, **2**, 2496.