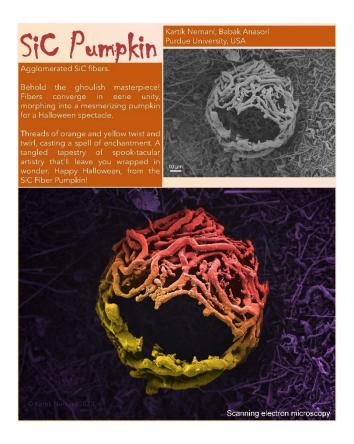
2023 Scanning Electron Microscopy category

First place: "SiC Pumpkin"

by Kartik Nemani, Babak Anasori; Purdue University



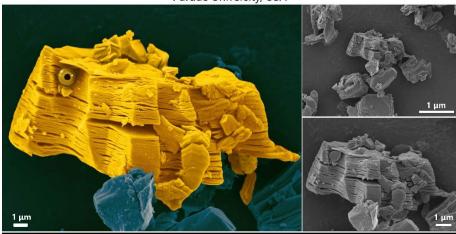


Kartik Nemani

<u>Second place:</u> "MXene Nanosaurus" by Anupma Thakur, Nithin Chandran B.S., Ken Aldren Usman, Babak Anasori; Purdue University

MXene Nanosaurus

Anupma Thakur, Nithin Chandran B.S., Ken Aldren Usman, Babak Anasori Purdue University, USA



A two-dimensional (2D) multilayered titanium carbide (Ti₃C₂T_x) MXene is visualized as a nanosaurus dinosaur. The Ti₃C₂T_x MXene was synthesized by selective etching of Al layers from the Ti₃AlC₂ MAX phase using hydrofluoric acid. With the growing family of MXenes as engineered and tunable 2D ceramics, the future for the field of ceramic engineering is at the nanoscale.

Scanning Electron Microscopy



Anupma Thakur

Third place: "The Grand Canyon"

by Joseph Wood; UC Davis

