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## Particle Templated Flexible Composites with Tunable Properties

INVENTORS • Nicholas Heeder and Arun Shukla

### ABSTRACT

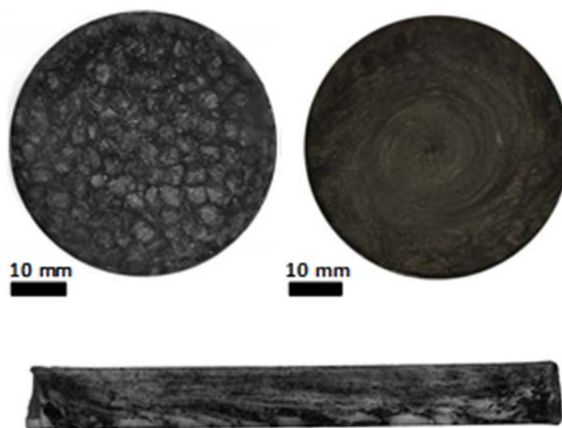
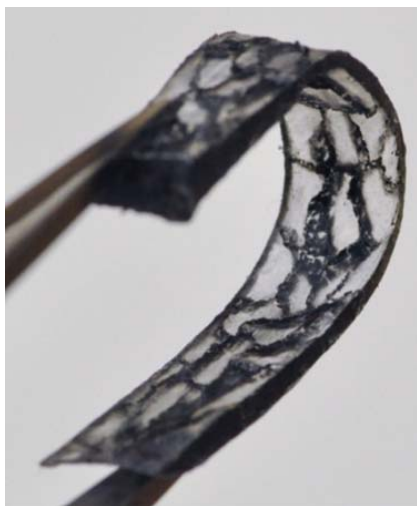
A flexible conductive composite that has been co-optimized for both electrical and mechanical properties has been created.

### APPLICATION

Application areas include electronics, energy storage, thermal management, shielding, smart coatings and sensors. Can be easily created using already existing industrial processes without a large outlay of new equipment or expense.

### FEATURES & BENEFITS

Simple process. Cost effective. Amendable to many polymers and filler materials. Enhances polymer functionality (i.e. thermal conductivity, electrical conductivity). Commercially viable. Highly tunable for specific application needs. Provides the ability to co-optimize both electrical and mechanical properties.



URIRF turns discoveries into deliverable products and services, creating jobs and economic growth.

- License URI inventions to industry partners
- Form new ventures
- Commercialize inventions
- Connect industry partners to University technology, facilities and people

### CONTACT TO DISCUSS LICENSING OPTIONS

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### PATENT STATUS

Applied

### AVAILABILITY

Technology is available for licensing.