

## Limited Sizing Approach for Carbon Fibers

### Disclosure Number

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### Technology Summary

Current industrially adopted surface treatment are not sufficient to produce adequate surface functionality for desired low-cost carbon fibers compatible both thermoplastics and thermosets. ORNL team has focused on developing highly flexible industrial gas/atmospheric plasma surface treatment in a way that can be easily switched between different types of surface treatments (such as for different matrix types compatible with various low-cost thermosets and thermoplastics). The present invention is specific to improvement of carbon fiber wettability and resin infusion.

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