

Publications on Waste Heat to Power by Infinity Turbine LLC

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<https://infinityturbine.com/publications-organic-rankine-cycle-turbine-generators-and-renewable-energy.html>

Waste Heat to Energy Systems and Technology Publications by Infinity Turbine LLC



This webpage QR code

PDF Version of the webpage (maximum 10 pages)

Silver Nanoparticle Publications

Publications related to producing silver nanoparticles from the SDR or spinning disc reactor



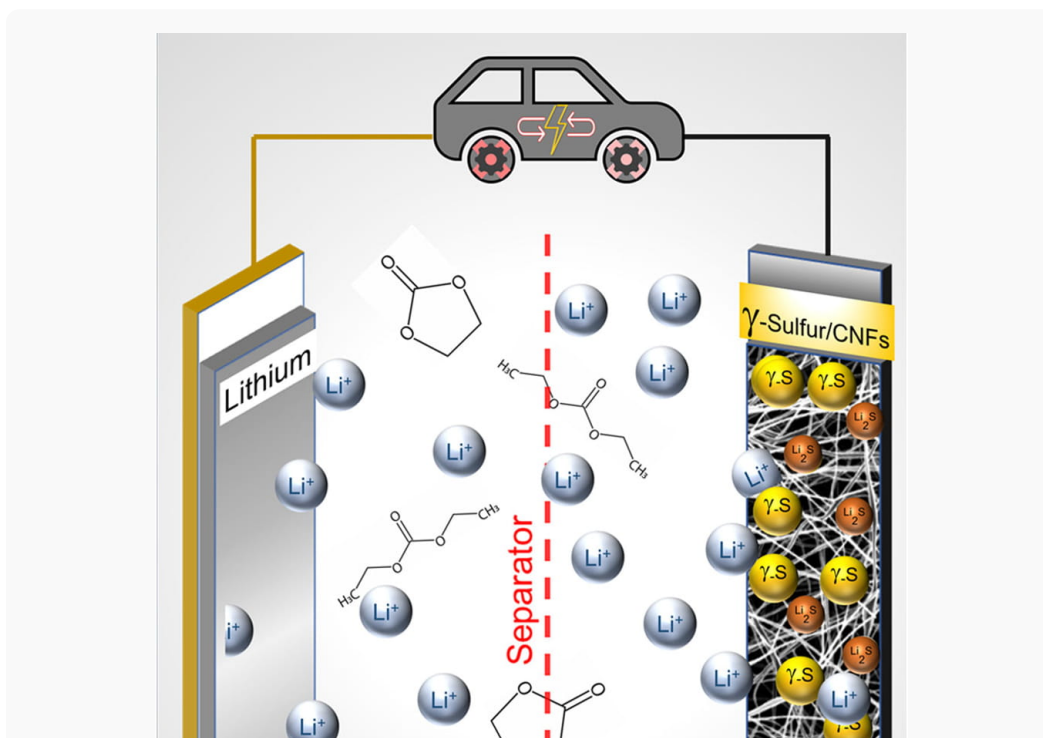


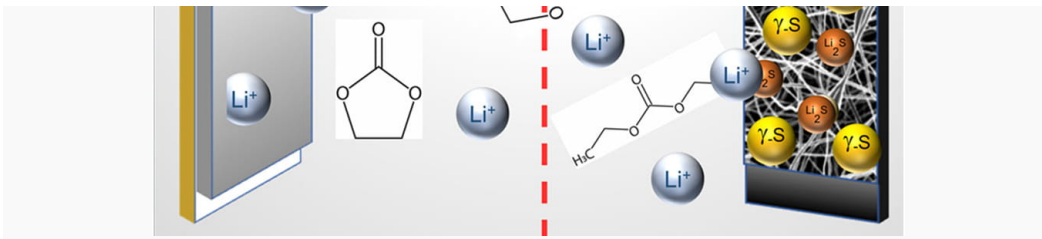
Monoclinic Gamma-phase Sulfur Publications

Abstract: Here, we stabilize a rare monoclinic γ -sulfur phase within carbon nanofibers that enables successful operation of Lithium-Sulfur (Li-S) batteries in carbonate electrolyte for 4000 cycles. Carbonates are known to adversely react with the intermediate polysulfides and shut down Li-S batteries in first discharge. Through electrochemical characterization and post-mortem spectroscopy/ microscopy studies on cycled cells, we demonstrate an altered redox mechanism in our cells that reversibly converts monoclinic sulfur to Li_2S without the formation of intermediate polysulfides for the entire range of 4000 cycles. To the best of our knowledge, this is the first study to report the synthesis of stable γ -sulfur and its application in Li-S batteries. We hope that this striking discovery of solid-to-solid reaction will trigger new fundamental and applied research in carbonate electrolyte Li-S batteries.

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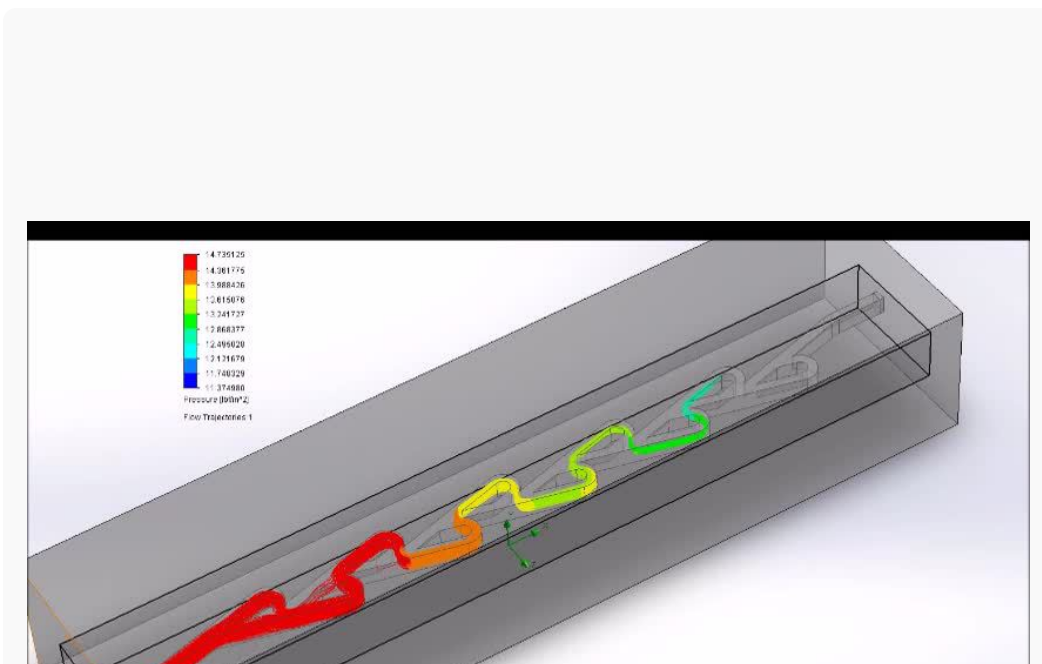


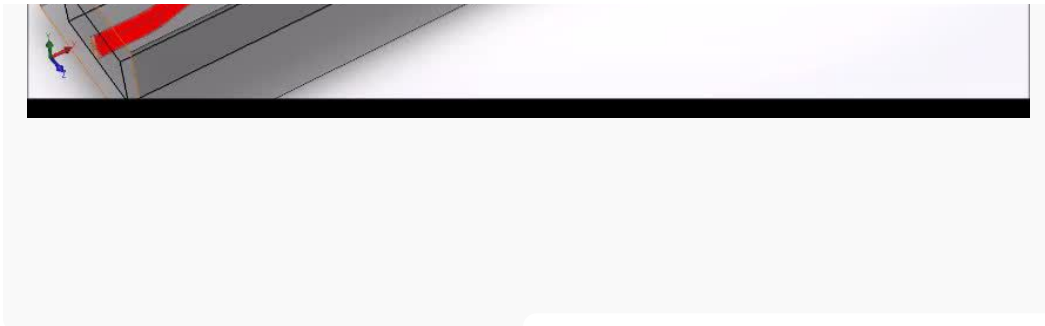


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Nikola Tesla Patents Publications

This is a complete listing of Nikola Tesla Patents.

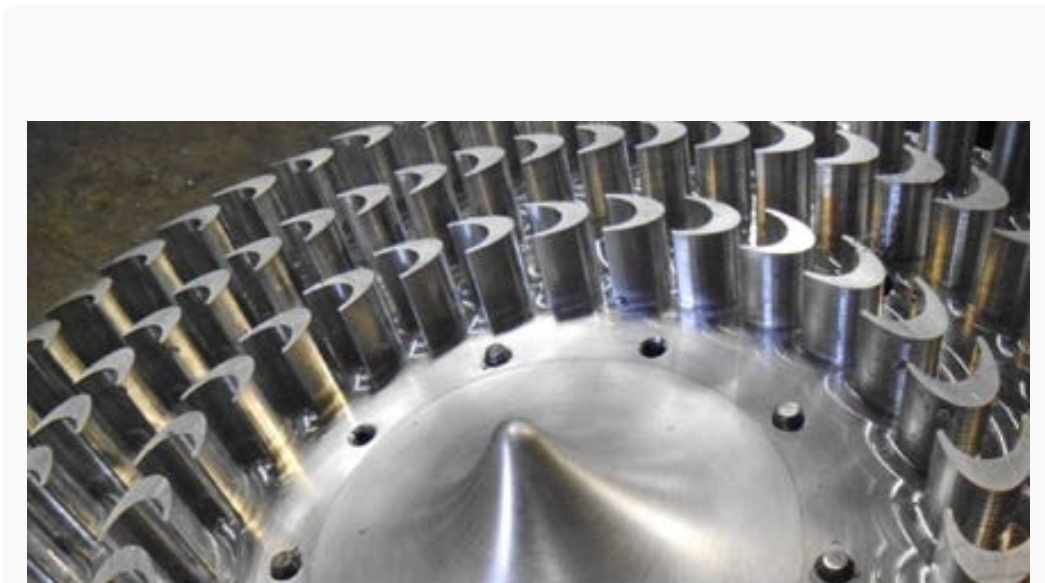


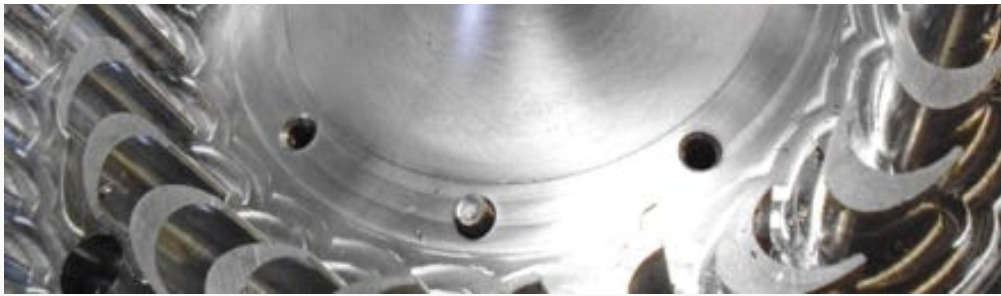


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Radial Outflow Turbine Publications

Publications related to the Radial Outflow Turbine.

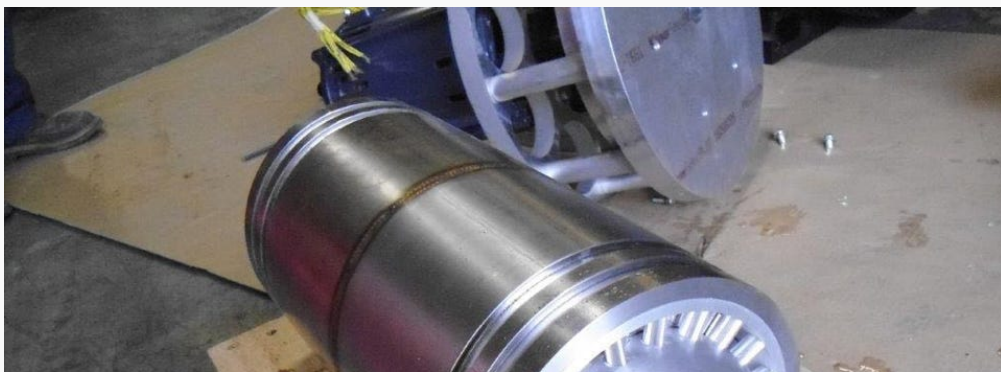




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Waste Heat to Energy Publications

Publications for waste heat to energy.



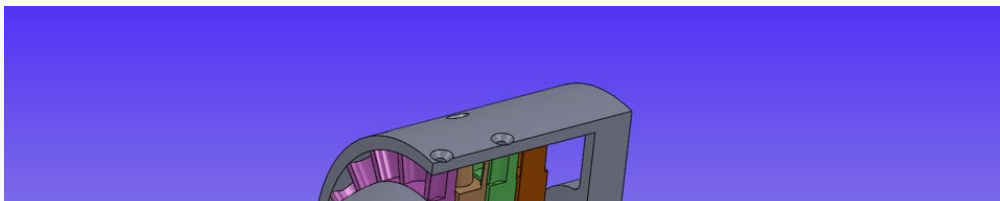


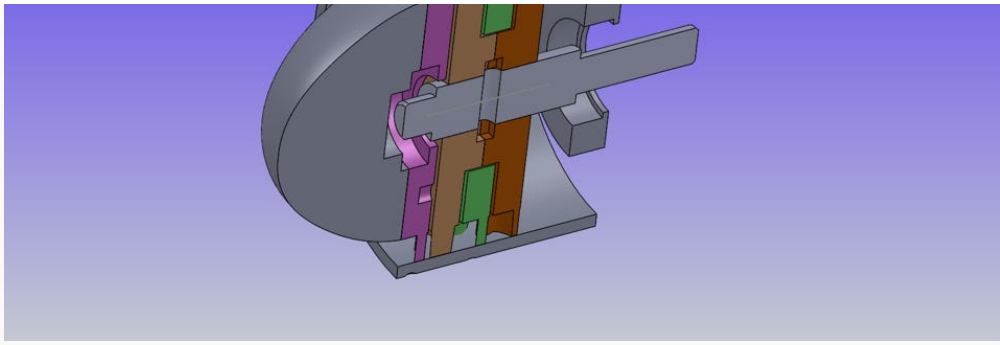
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Electric Turbine

Topics include:

- aircraft technology and innovation
- static plasma wings and plasma deicing
- electronic turbine propulsion
- acoustic problems with jet engines
- electric nanogenerator
- concepts of classical jet propulsion
- triboelectric nanogenerator
- anti-icing method of airfoil pulsed dielectric barrier discharge plasma
- fundamentals of electric propulsion ion and hall thrusters
- jet propulsion by microwave air plasma
- nano mechanics quantum size effects contacts triboelectricity
- air breathing plasma jet propulsion concept
- optimization dielectric discharge plasma actuators icing control
- plasma actuators hingeless aerodynamic control uav and drones
- stall control by plasma actuators along airfoil span





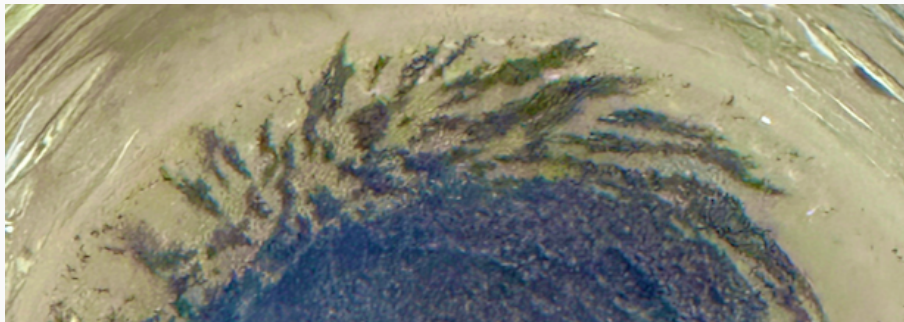
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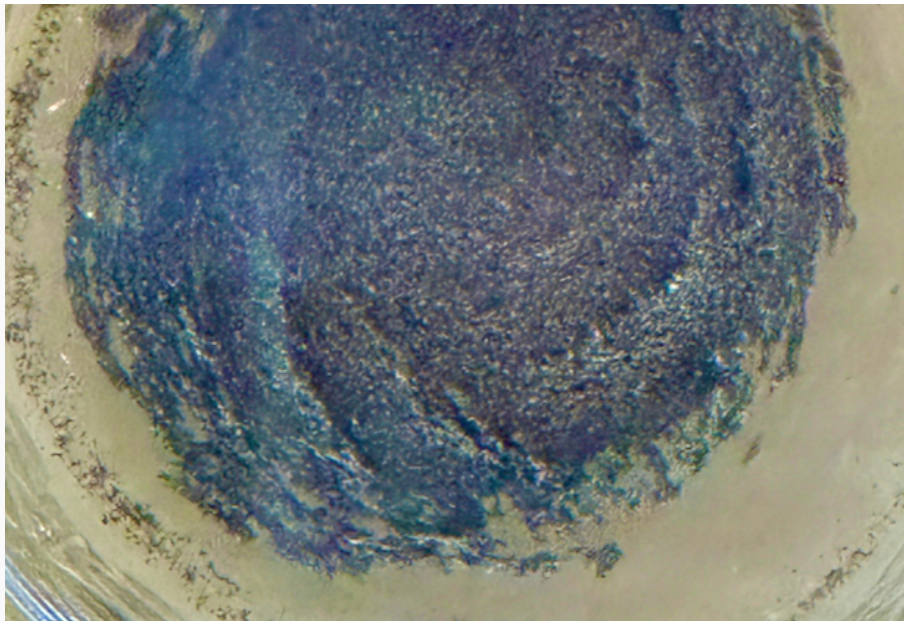
Exfoliated Graphene

Under development using electrochemistry as a side of the Salgenx flow battery is making graphene.

There are many similarities and the use of sodium (Na) to exfoliate graphene from graphite.

Na is harvested during the [Salgenx](https://salgenx.com) Flow Battery charging process.





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