



pubs

1/14/2024

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Infinity Turbine  
LLC

Publications on Waste Heat to Power by  
Infinity Turbine LLC



This webpage QR code

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

PDF Version of the webpage (first pages)

## Silver Nanoparticle Publications

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

1/14/2024

## Monoclinic Gamma-phase Sulfur Publications

Abstract: Here, we stabilize a rare monoclinic  $\gamma$ -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  $\text{Li}_2\text{S}$  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  $\gamma$ -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.

## Nikola Tesla Patents Publications

This is a complete listing of Nikola Tesla Patents.

## Radial Outflow Turbine Publications

Publications related to the Radial Outflow Turbine.

## Waste Heat to Energy Publications

Publications for waste heat to energy.

## 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

## Combined Heat and Power CHP

Various publications related to combined heat and power.

- Texas Geothermal
- Argonon Sustainable Ship
- 250 kW Carrier Micro Steam Heat Recovery Turbine
- Infinity GPU
- Cain Economizers
- Cain Heat Recovery Units
- Chena Hot Springs Geothermal to Power
- CHP
- Volcanic Geothermal
- Ramgen Shockwave Turbine Compressor
- PureCycle 280 Manual and Datasheet
- Tesla Turbine
- Waste Heat Utilization

# NFT

NFT Publications.

## 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.



