



National Defense Magazine reporter Sean Carberry spotlights Mesodyne, an MIT startup that is developing a thermal photovoltaic power generator that could be used to help extend battery power during military missions. Mesodyne's LightCell generator can deliver "high-efficiency direct current power from a quiet device with no moving parts that could change the ...

Dr. Walker Chan is the cofounder and CTO of Mesodyne, where he leads the team of engineers designing the LightCell's integration into products for use across military and commercial applications. He serves on the company's Board of Directors and is an expert in thermophotovoltaics, thermofluids, combustion systems, and high temperature ...

Mesodyne's patented LightCell is a new class of power generator that converts fuel into electricity via light. Simply put, the LightCell enables portable, efficient, quiet, reliable, long ...

Luminate. "Mesodyne is an impressive contender. The company's LightCell(TM) power generator offers a compact, long-lasting, quiet and reliable power alternative." The Rochester Business Journal is featuring profiles of the companies that are helping to write the next chapter in Rochester's history as the world's center for optics,

Mesodyne's patented LightCell(TM) power generator converts any fuel into electricity via light. The core of the LightCell is a nanophotonic material that is engineered to only emit certain ...

In Mesodyne's LightCell(TM), a microcombustor heats a nanoengineered photonic crystal material to incandescence, which shines light on the photovoltaic (PV) cell, generating electricity. My co-founder, Dr. Walker ...

Another company called Mesodyne is also working on the problem. Mesodyne's LightCell. Mesodyne, another company in the solid-state engine space, has developed a similar thermophotovoltaic system [8] but with some key differences. Mesodyne's system integrates the combustion chamber, nanophotonic emitter, and PV cell into a small chip, making ...

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