

Please direct questions to:

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Papers are sought that are pertinent to the development and application of Pressure Gain Combustion (PGC) to propulsion and power systems. PGC covers any periodic process producing work through confinement during heat release. Relevant subtopic areas include:

1. **Physics Modeling and Exploration** covering fundamental investigations of detonation physics and chemistry, deflagration-to-detonation transition (DDT), detonation dynamics, constant or confined volume combustion, propellant injection and mixing, characterization of PGC loss mechanisms and heat transfer analyses.
2. **Component and Subsystem Design and Evaluation** covering evaluations of PGC subsystems such as ignition, cooling, propellant injection, modeling validation activities and trade studies for subsystem optimization.
3. **Applications and System Integration** describing terrestrial, atmospheric or in-space applications of PGC devices, innovative configurations and concepts, studies and considerations for system integration as well as generalized performance estimates.
4. **Measurement and Diagnostic Techniques** examining proposed, or experimental instrumentation and data collection approaches for PGC systems.
5. **Combustor Testing, Operability and Performance** covering proposed or existing empirical efforts or facilities intended to explore PGC device stability, operating range, propellant condition sensitivity, exit flow conditions, etc.

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