***Problem:***

Aren’t there other, easier fuels you could use? Why not use other fuels?

***Solution:***

The combustion of hydrogen is an incredibly efficient reaction. It also produces a large amount of energy -572 kJ/mol. We initially thought of reacting CO2 with Mg however this produces solid byproducts like soot that coat the engine, preventing it from functioning.

In addition, the problem with using plasma is that an incredible amount of energy is needed to be produced. It would also be an extremely dangerous propellant due to its high temperature (some thousands degrees Celsius).

Moreover, the problem with using ion propulsion is that it would take far too long to accelerate the pilot to a decent speed. It also does not allow for sharp maneuverability.