1 Abstract

I will write the abstract as the last part of my paper, as it should survey the topics and results discussed.

Citation examples for LaTeX, which I will be using to write and format this paper, compilation. I am using ACS as a reference style.

I am using BibTex to compile my refs.bib document for this paper, please let me know if my citations are done incorrectly so I can change them sooner rather than later.

2 Introduction

- 1. Desire for hypersonic travel commercially and narrower scopes
- 2. Difficulty finding polymers to withstand extreme temperature scenarios
- 3. High friction scenarios both with physical and gases (air resistance) need to be accounted for
- 4. Space stations can make use of temp withstanding polymers in either direction
- 5. Main concern with hypersonic travel is the lack of ability to handle friction with air
- 6. Explicitly state the purpose of these studies

3 Results and Discussion

- 1. Polymer coatings can mitigate low thermal resistance
- 2. Polyimides very thermo-oxidatively resistant [?]
- 3. Discuss synthesis of polyimides and behavior at temperatures above 500°C
- 4. Thermoplastic vs. thermosey polyimides
- 5. Nanoparticles: their use and benfit to making travel like this possible

4 Conclusions

Restate, succinctly, the results section.

- 1. Discuss without logical sentences
- 2. Discuss possible grievances and comments
- 3. Discuss future solutions and ideas