

Revisions on polymers-2061103-peer-review-v1

Title: Fabrication and thermal performance of a polymer-based flexible oscillating heat pipe via 3D printing technology

Review Summary:

In this paper, a polymer-based flexible oscillating heat pipe is fabricated using 3D printing technology and its thermal performance is measured experimentally. The experimental results such as temperature distributions, thermal resistances versus input power for different bending angles are reported.

Review results:

The manuscript should be published after implementing the following **minor comments** properly.

- 1- Address insulation material and estimation of heat loss in the text.
- 2- Address flow rate of cooling water and its specific heat capacity. For the steady-state conditions, you can simply perform energy balance and estimate heat loss. ($Q_{heater} = \dot{m}_{water} c_{p,water} (T_{out,water} - T_{in,water}) + Q_{loss}$)
- 3- Address accuracy of heat pipe dimensions, specifically for grooves in plus-minus.
- 4- There is a scale for heat pipe flow channel in Fig.4. But how depth are the grooves?
- 5- What camera did you use for surface temperature measurements in Fig. 7c?
- 6- It looks to me there is no transition from using ceramic heater to using flexible heater. Please explain more about why you changed heaters and what are their applications.