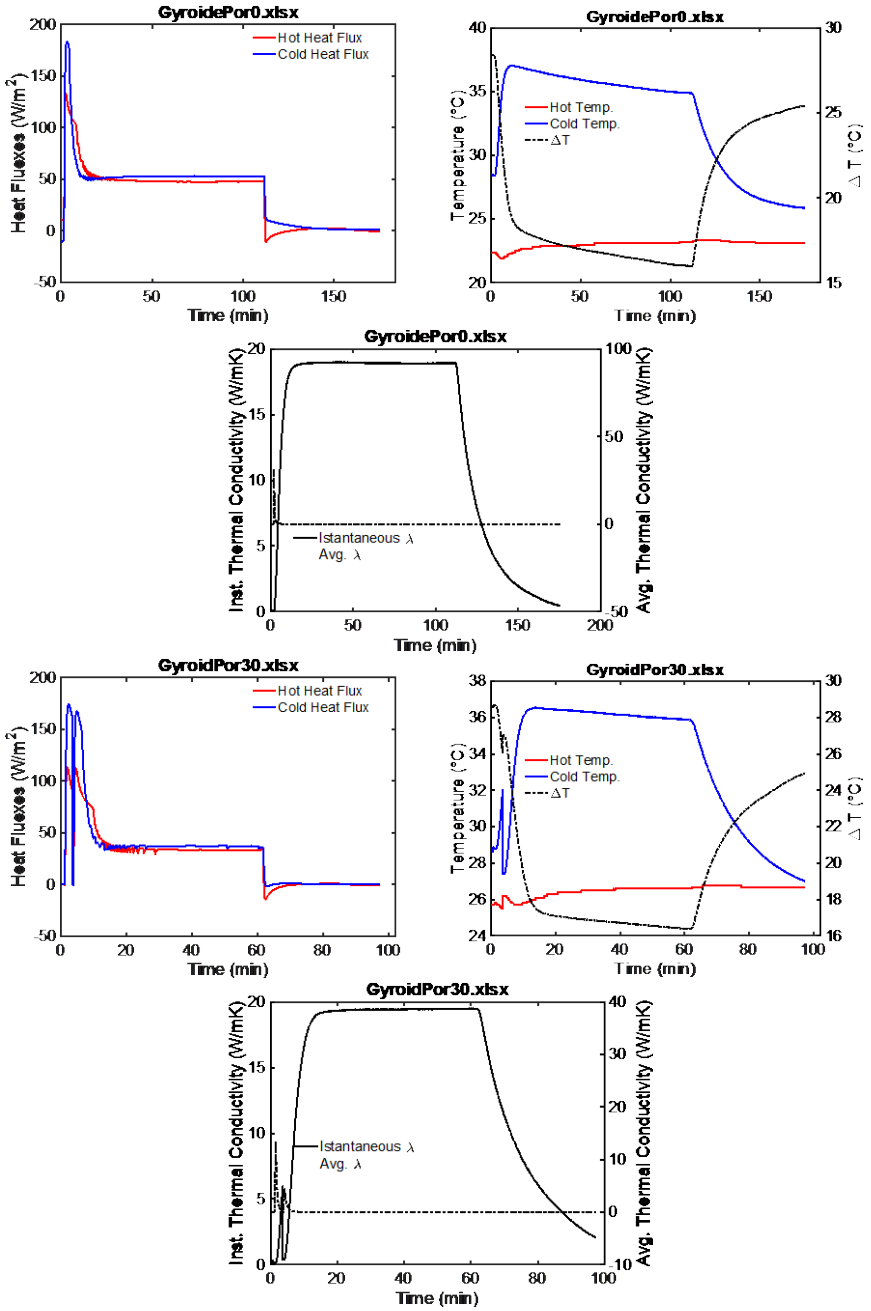
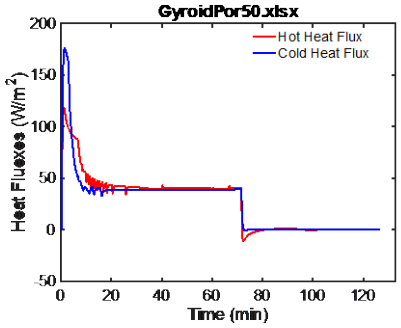
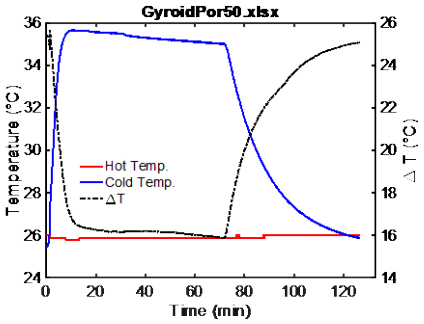
Supplementary Material

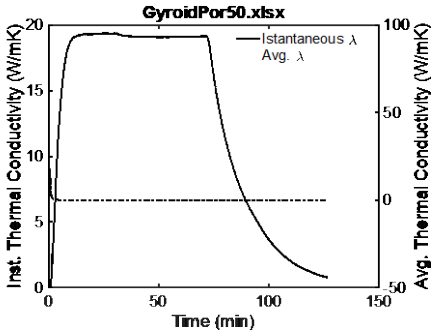
Thermal Conductivity of Parallelepiped Scaffolds

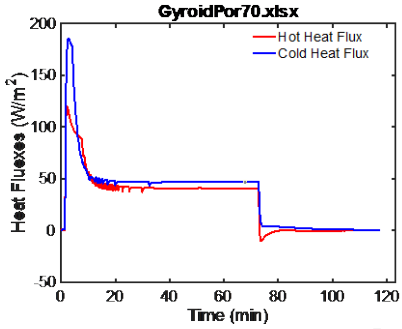
For increasing porosity from the top to the bottom.

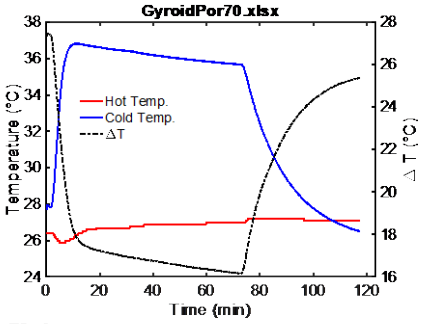


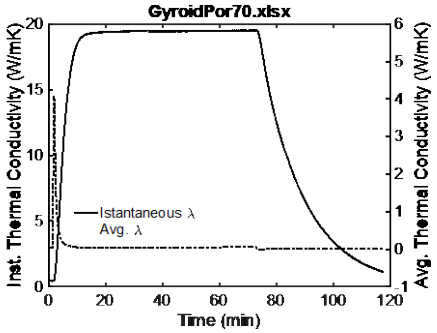

GyroidPor50.xlsx
Hot Heat Flux
Cold Heat Flux
Heat Fluexes (W/m^2)
Time (min)


GyroidPor50.xlsx
Hot Temp.
Cold Temp.
ΔT
Temperature (°C)
Δ T (°C)
Time (min)

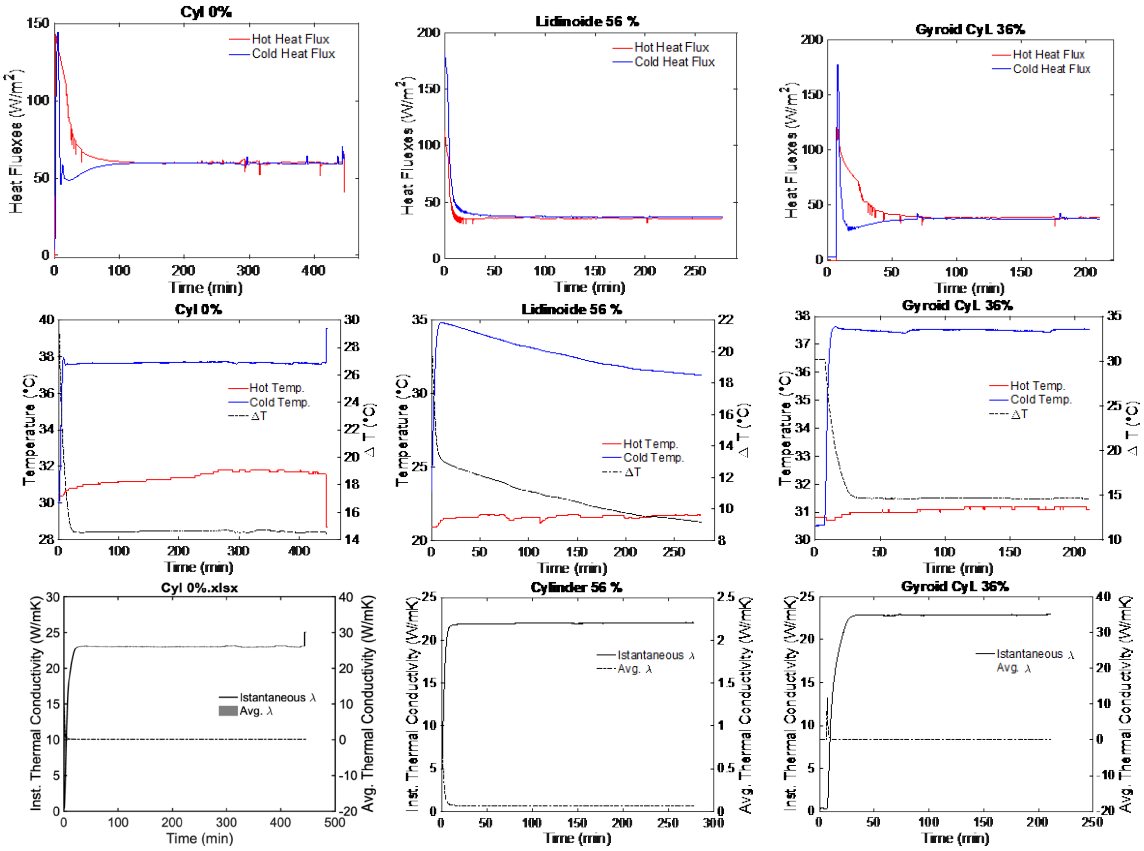

GyroidPor50.xlsx
Istantaneous λ
Avg. λ
Inst. Thermal Conductivity (W/mK)
Avg. Thermal Conductivity (W/mK)
Time (min)


GyroidPor70.xlsx
Hot Heat Flux
Cold Heat Flux
Heat Fluexes (W/m^2)
Time (min)

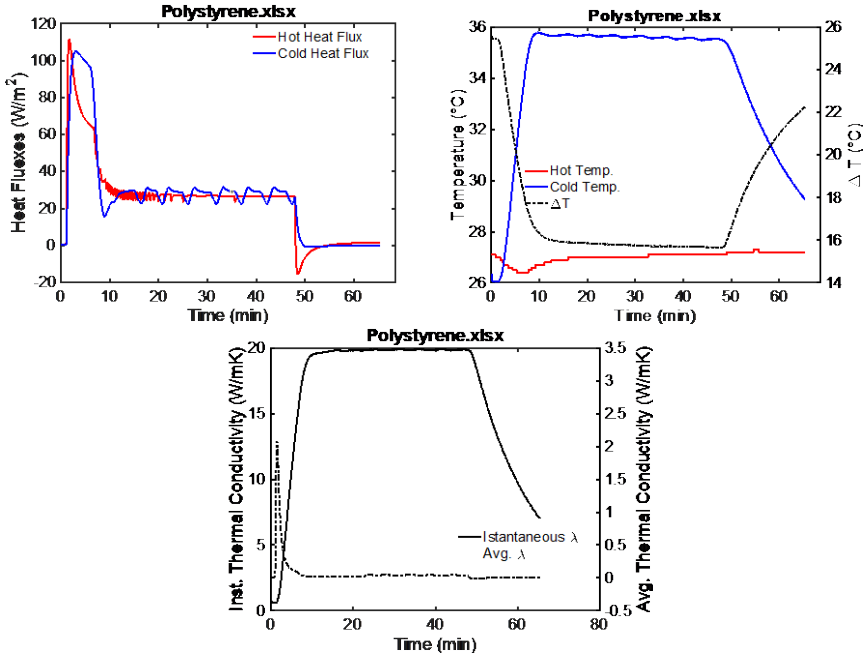

GyroidPor70.xlsx
Hot Temp.
Cold Temp.
ΔT
Temperature (°C)
Δ T (°C)
Time (min)


GyroidPor70.xlsx
Istantaneous λ
Avg. λ
Inst. Thermal Conductivity (W/mK)
Avg. Thermal Conductivity (W/mK)
Time (min)

Thermal Conductivity of Cylindrical Scaffolds



Thermal Conductivity of Polystyrene



Thermal Conductivity of Air Cavity in Polystyrene

