

Supplementary Information

Effect of the degree of polymerization and water content on the thermal transport phenomena in PEGDA hydrogel: A Molecular Dynamics Based Study

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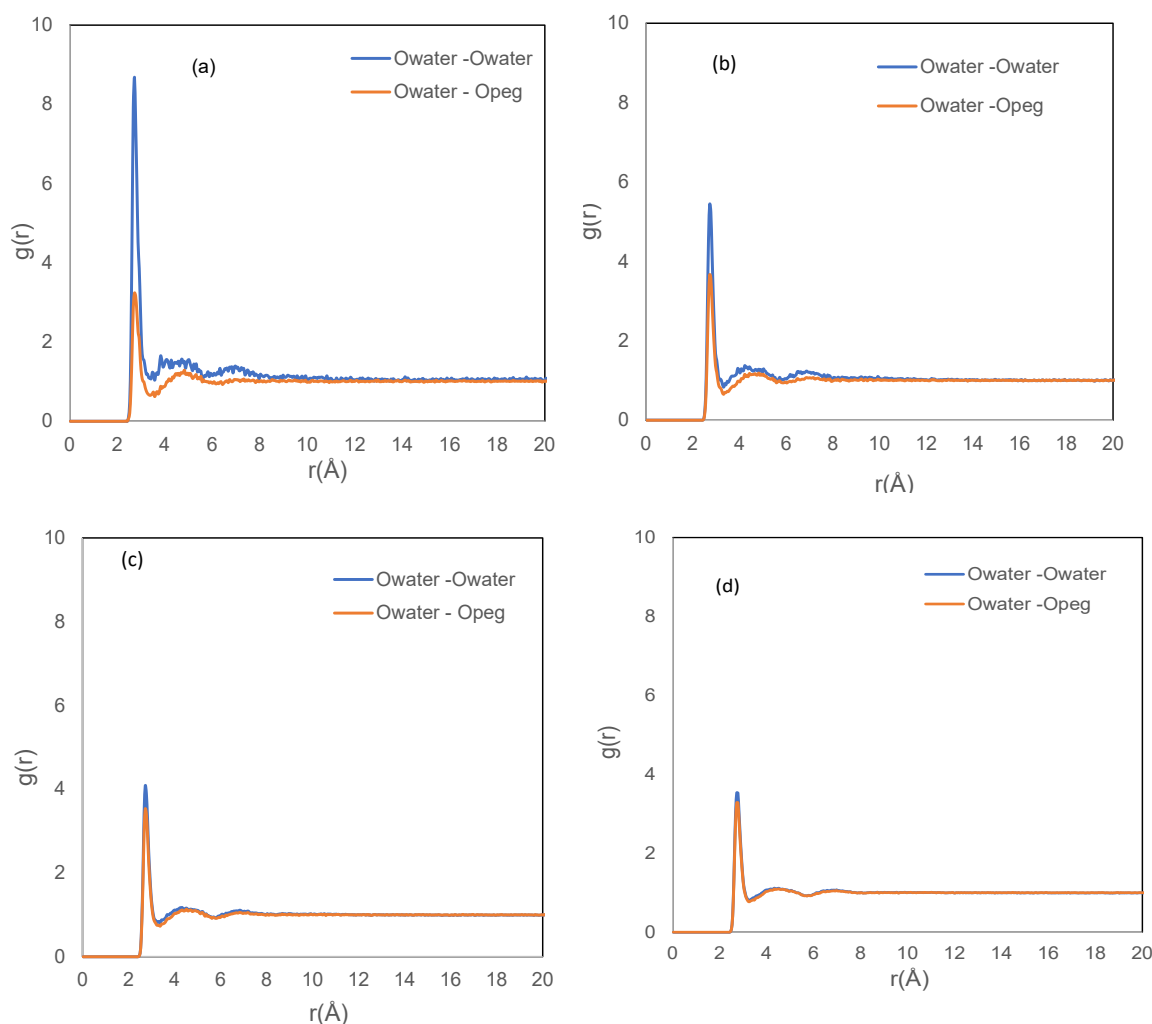


Fig.S1 Representing the radial distribution function plots for PEGDA hydrogel between $O_{water} - O_{water}$ and $O_{water} - O_{peg}$ at (a) 25 wt.% (b) 50 wt.% (c) 75 wt.% (d) 85 wt.% water concentration.

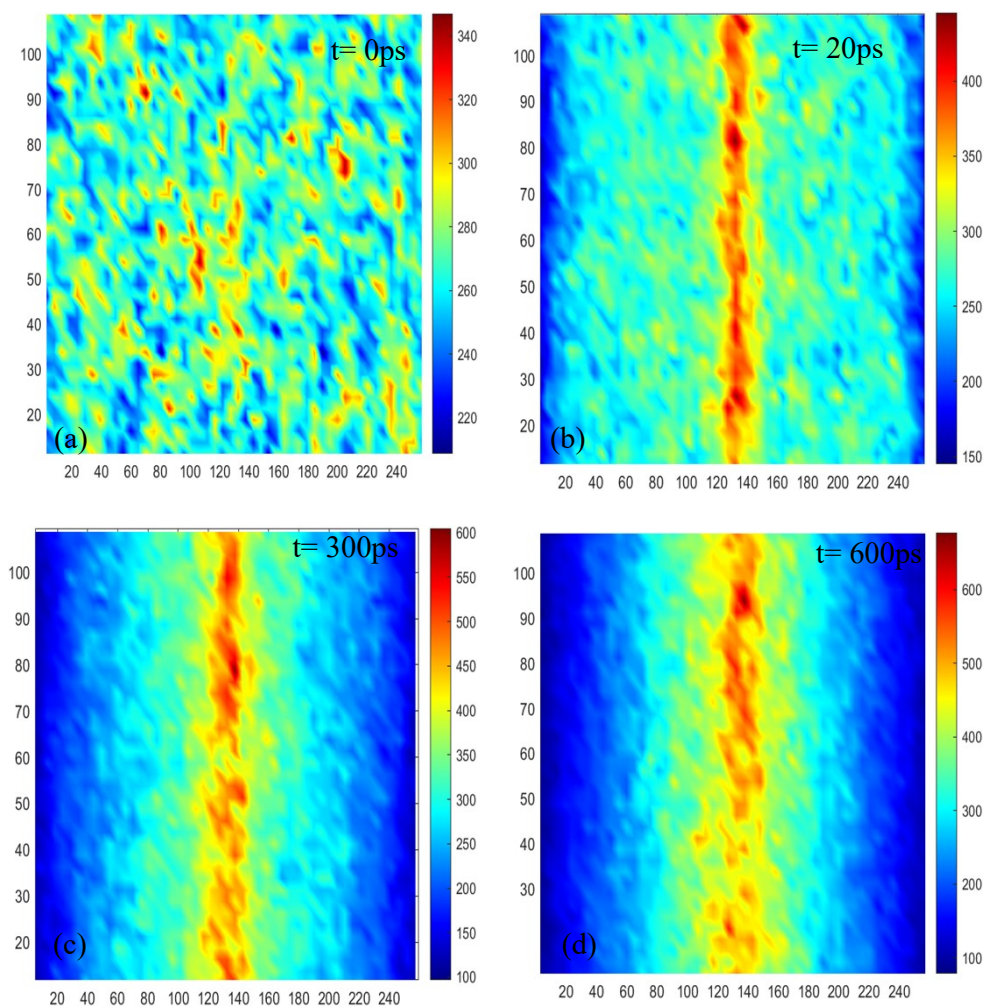


Fig. S2 The variation of temperature distribution at different times of PEGDA-23. The steady-state temperature profile for PEGDA-23 helps in elucidating the fact that after 300 ps, the system equilibrium has been achieved, which can be verified at 600 ps.