

Appendix C

Comparison of current numerical results with numerical results of other authors

The comparison of current RANS model's prediction of tangential velocity, temperature and O₂ mole fraction with the RANS modelling results of other authors (Chen and Ghoniem, 2012; Gaikwad et al., 2017; Warzecha and Boguslawski, 2014) has been given below.

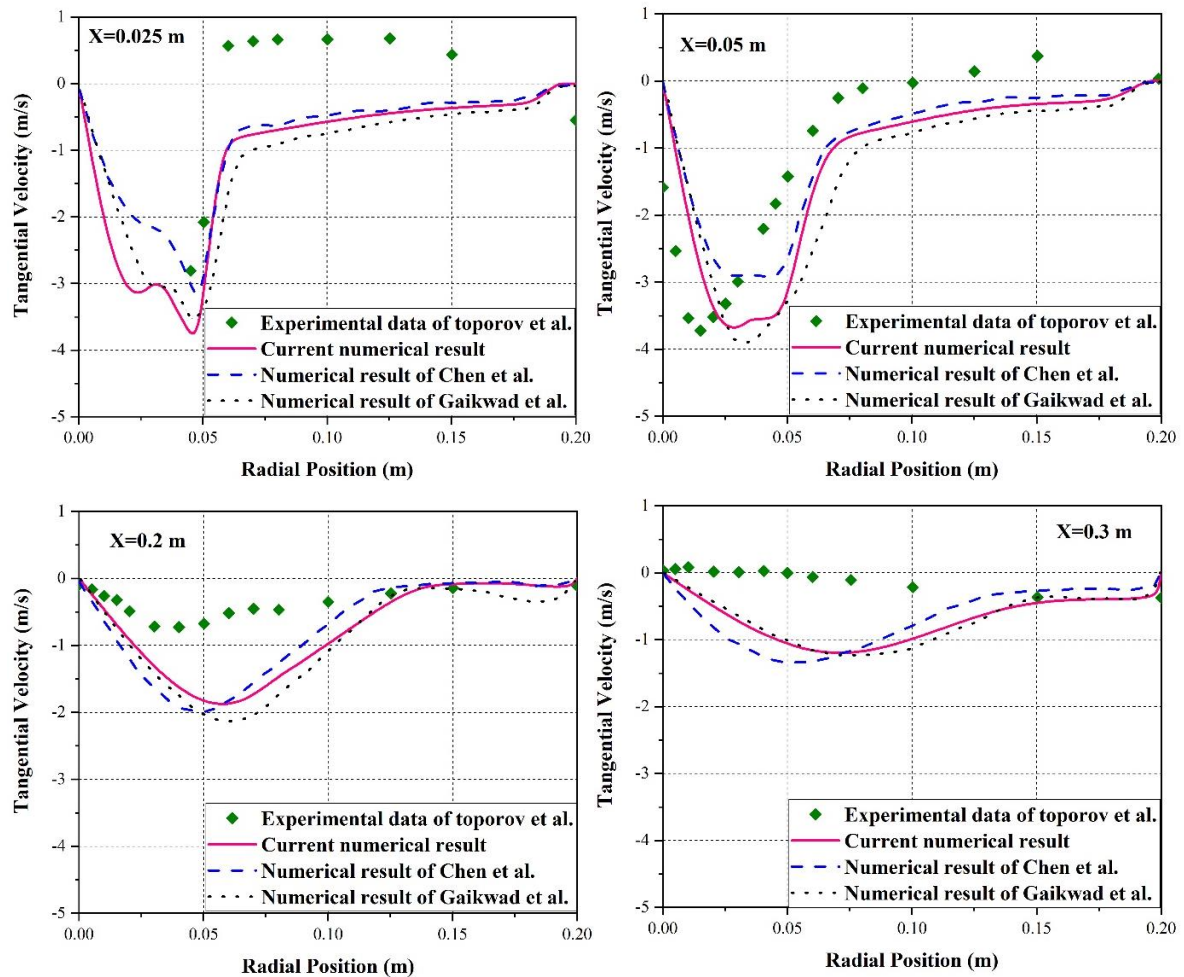


Fig. C1. Comparison of RANS prediction of tangential velocity (m/s) with RANS prediction of other authors and experimental data at different axial locations from burner

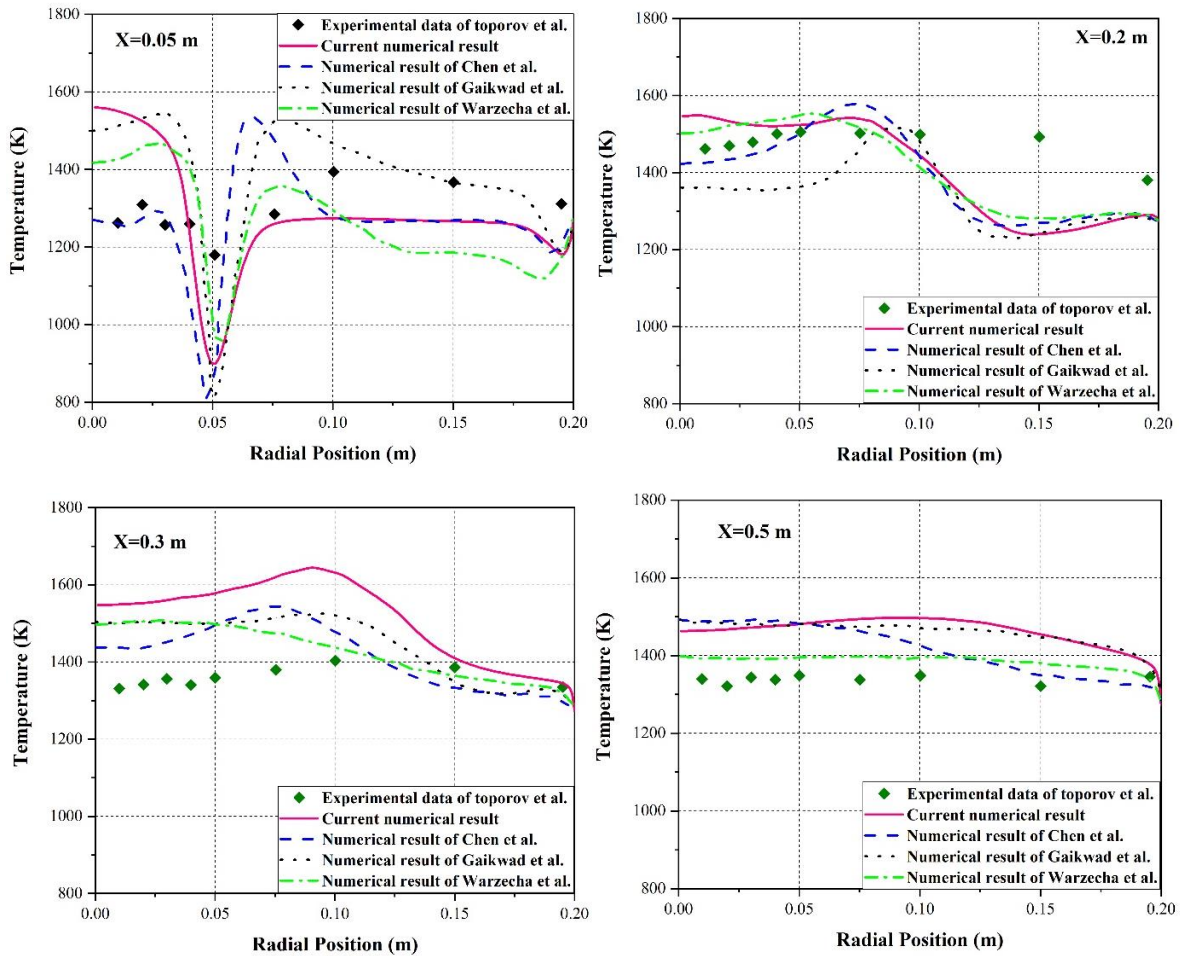


Fig. C2. Comparison of RANS prediction of temperature (K) with RANS prediction of other authors and experimental data at different axial locations from burner

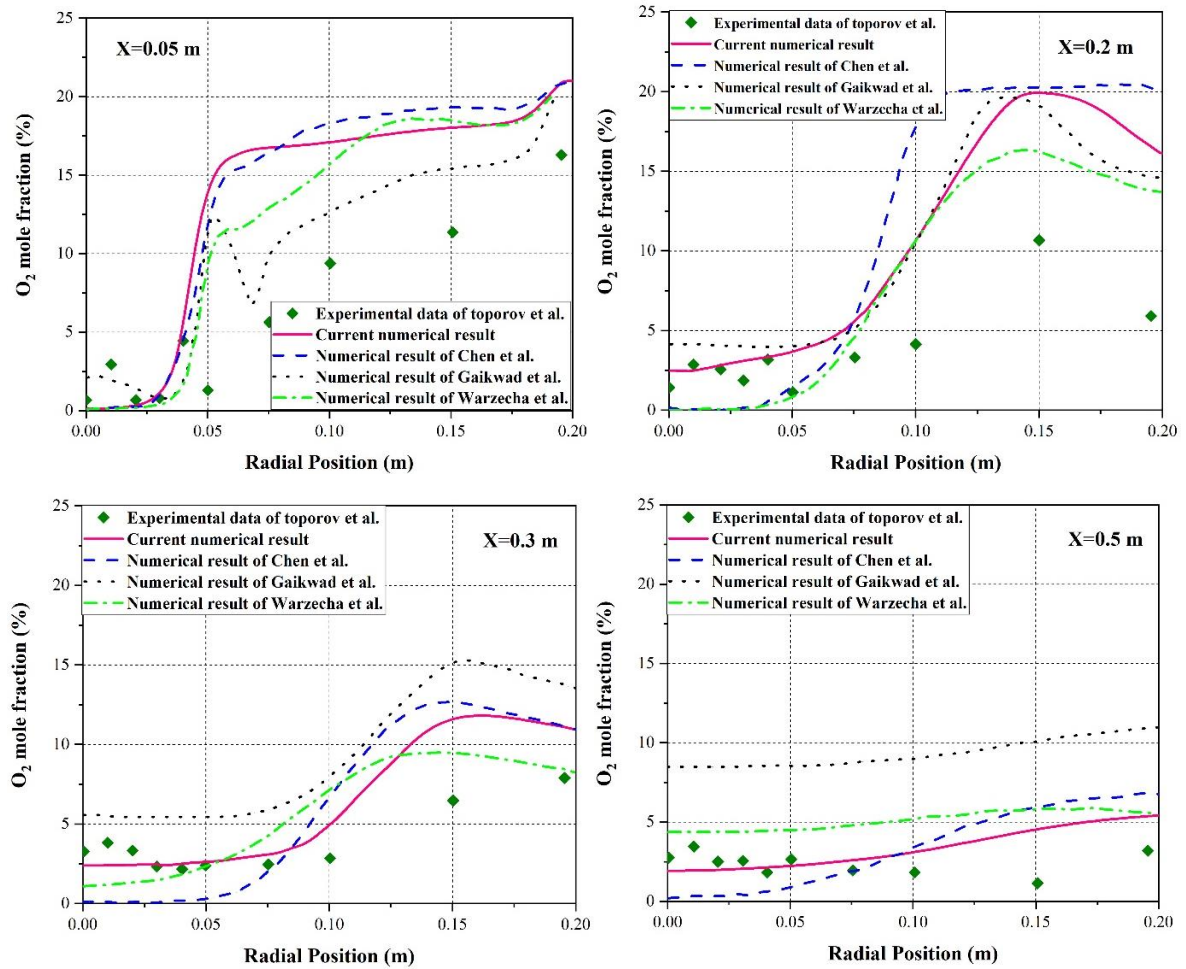


Fig. C3. Comparison of RANS prediction of O₂ mole fraction (%) with RANS prediction of other authors and experimental data at different axial locations from burner