

Comparison of the mesomorphic behaviour of 1:1 and 1:2 mixtures of charged Gay-Berne GB(4.4,20.0,1,1) and Lennard-Jones particles

Tommaso Margola ¹, Katsuhiko Satoh ^{2,*} and Giacomo Saielli ^{3,*}

¹ Department of Chemical Sciences of the University of Padova, via Marzolo, 1 – 35131 Padova Italy.

² Department of Chemistry, Osaka Sangyo University, Daito, Osaka, 574-8530, Japan.

³ CNR Institute on Membrane Technology, Unit of Padova, via Marzolo, 1 – 35131 Padova Italy.

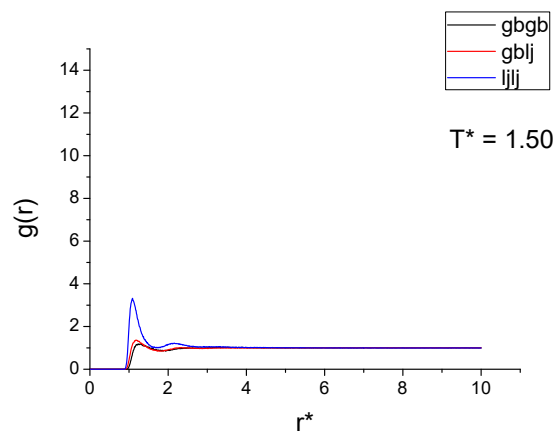
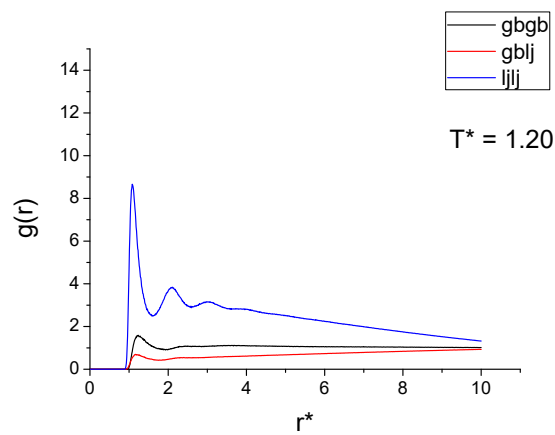
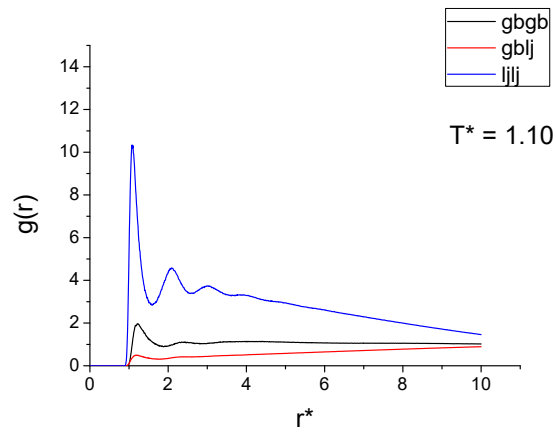
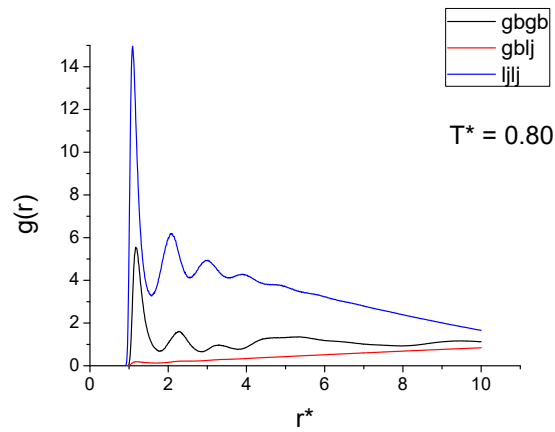
* Correspondence: ksato@las.osaka-sandai.ac.jp; giacomo.saielli@unipd.it

Supporting Information

In the following pages we report the radial distribution functions of the systems investigated. Stoichiometry, density, packing fraction, charge and temperature are indicated in each panel.

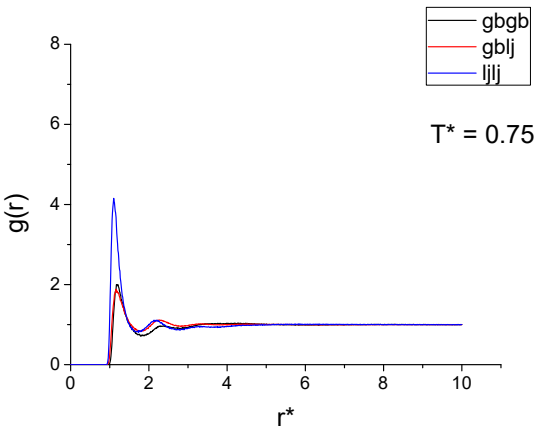
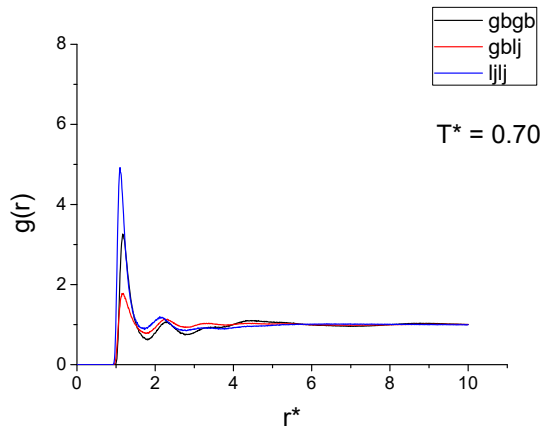
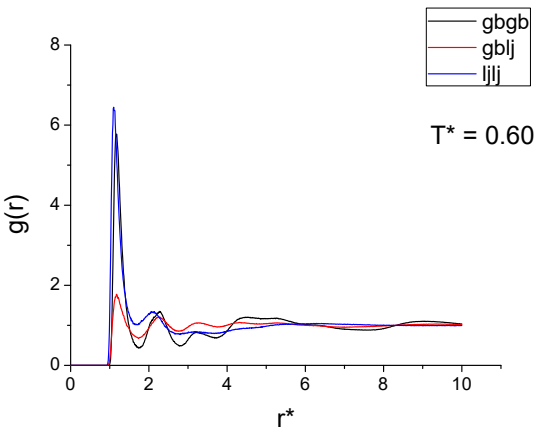
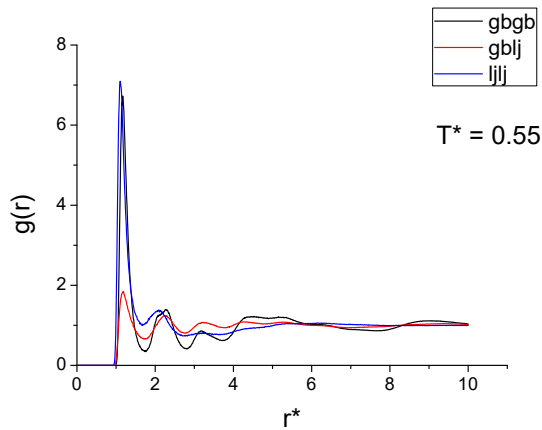
GB:LJ = 1:1, $\rho^* = 0.261$, $\eta^* = 0.371$

$q^* = 0.0/0.0$



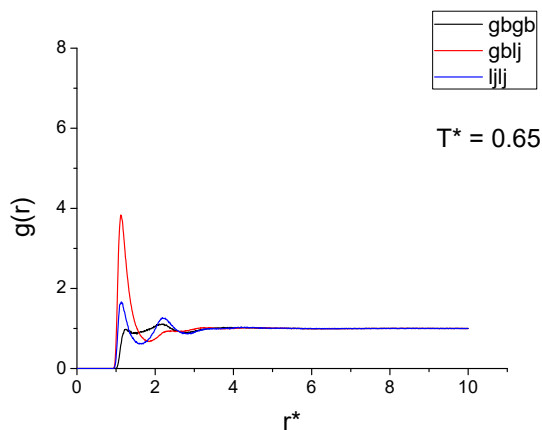
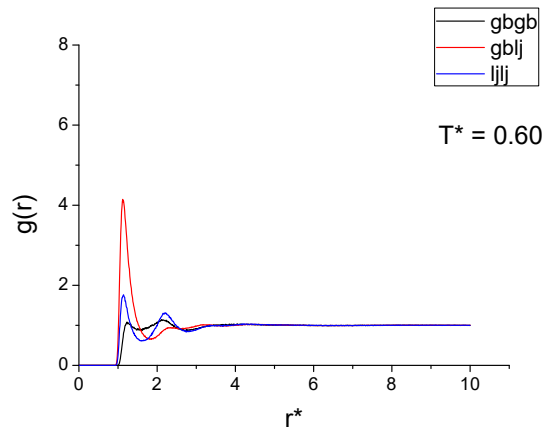
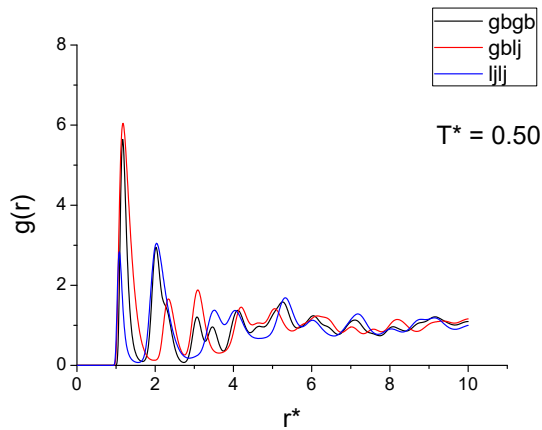
GB:LJ = 1:1, $\rho^* = 0.261$, $\eta^* = 0.371$

$q^* = +0.50 / -0.50$



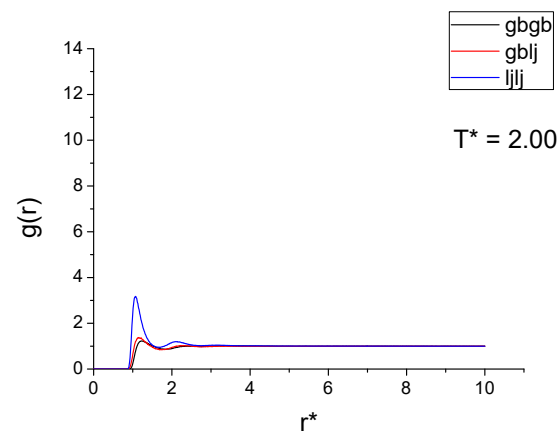
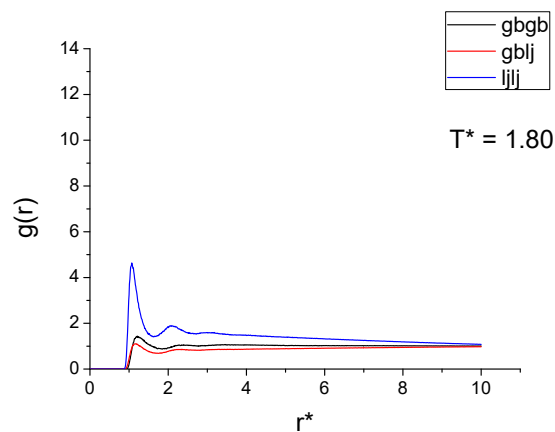
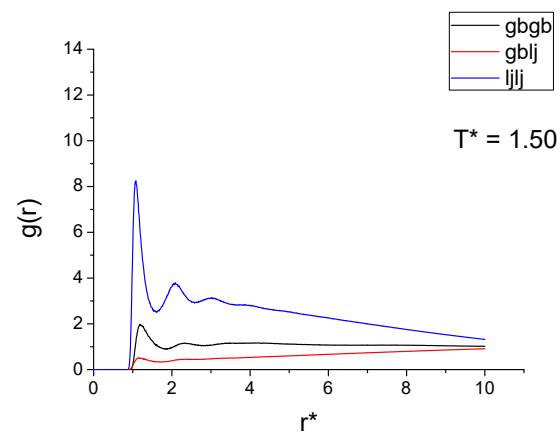
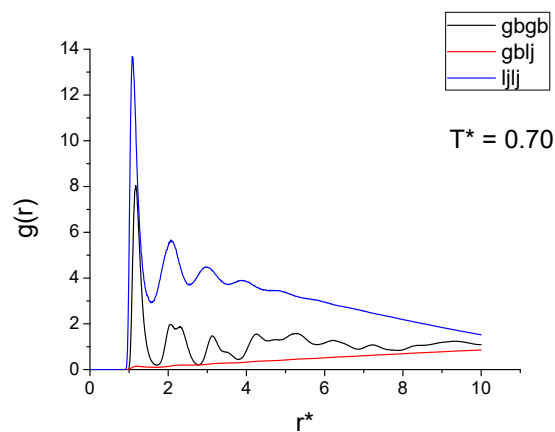
GB:LJ = 1:1, $\rho^* = 0.261$, $\eta^* = 0.371$

$q^* = +2.0 / -2.0$



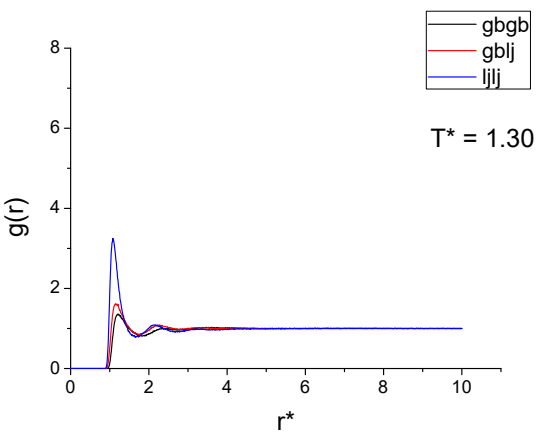
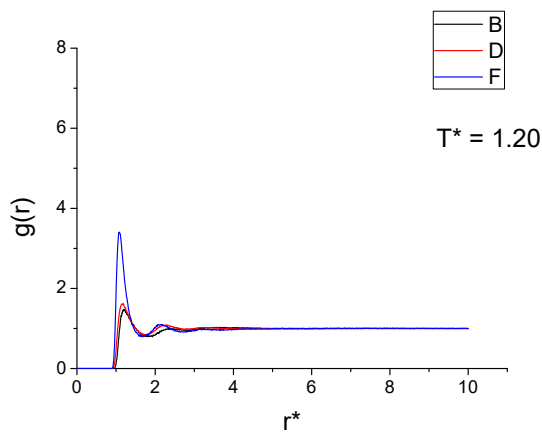
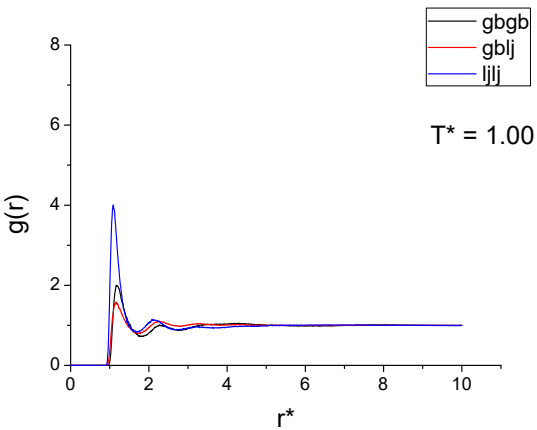
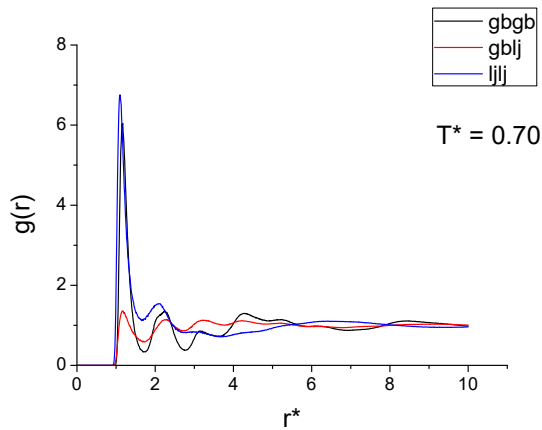
GB:LJ = 1:1, $\rho^* = 0.303$, $\eta^* = 0.428$

$q^* = 0.0/0.0$



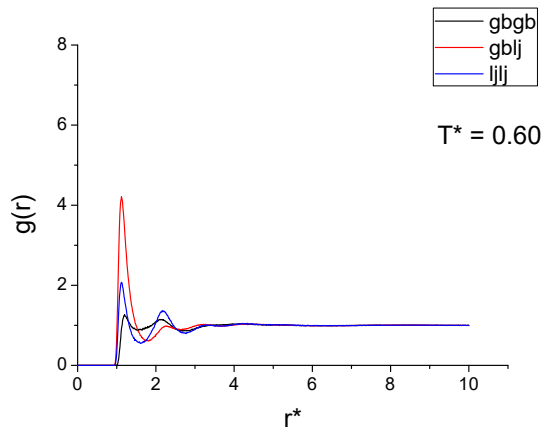
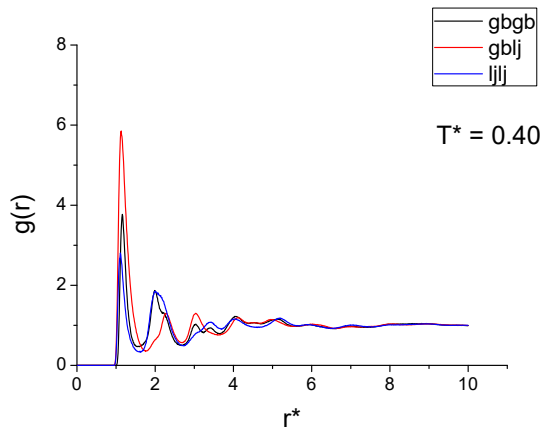
GB:LJ = 1:1, $\rho^* = 0.303$, $\eta^* = 0.428$

$q^* = 0.5/-0.5$



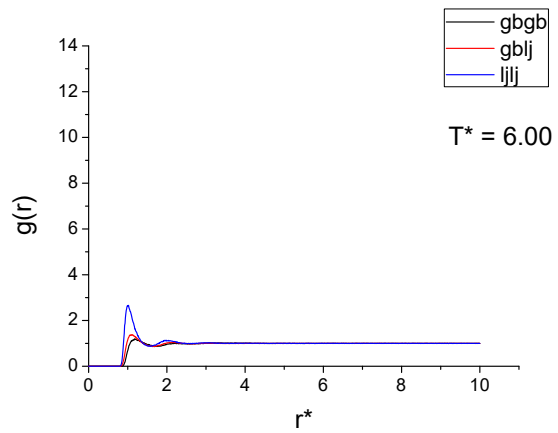
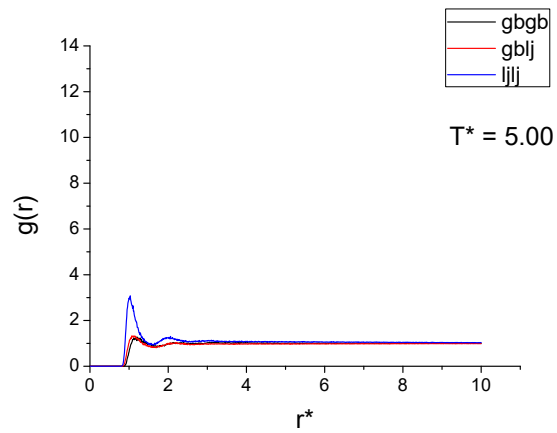
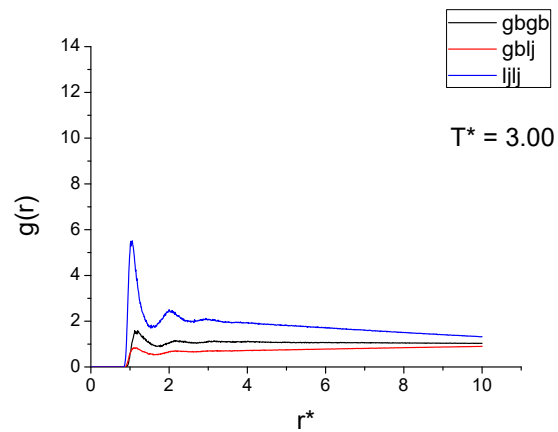
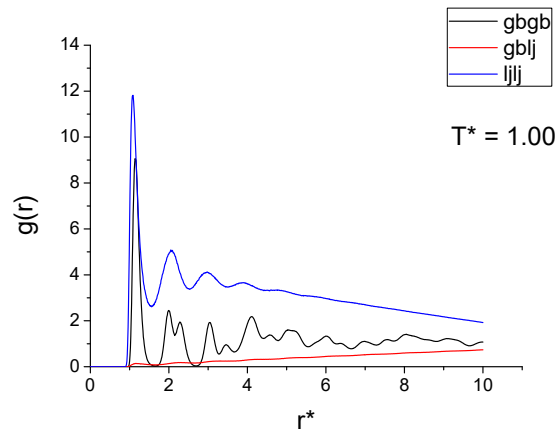
GB:LJ = 1:1, $\rho^* = 0.303$, $\eta^* = 0.428$

$q^* = 2.0 / -2.0$



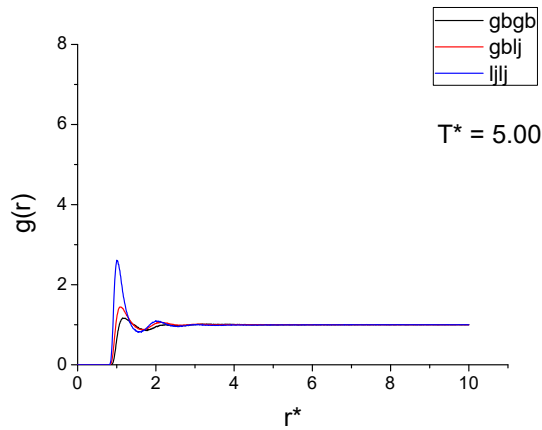
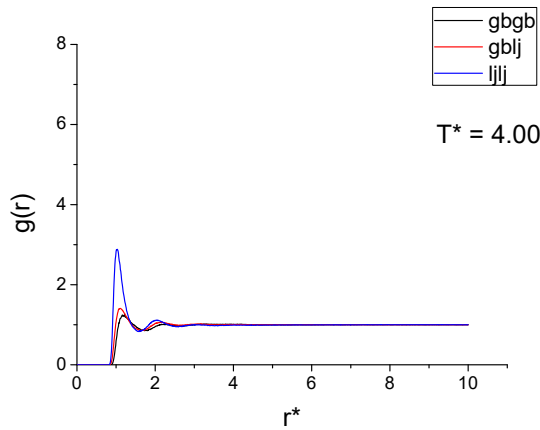
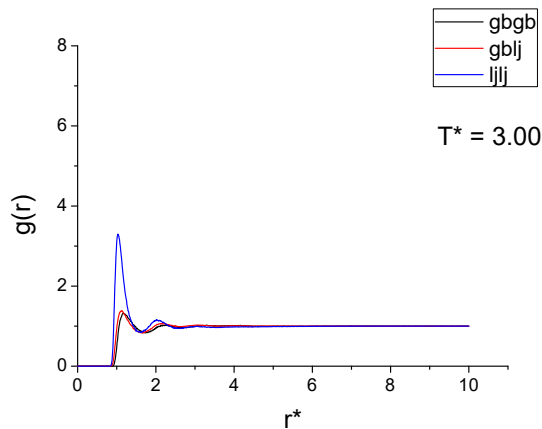
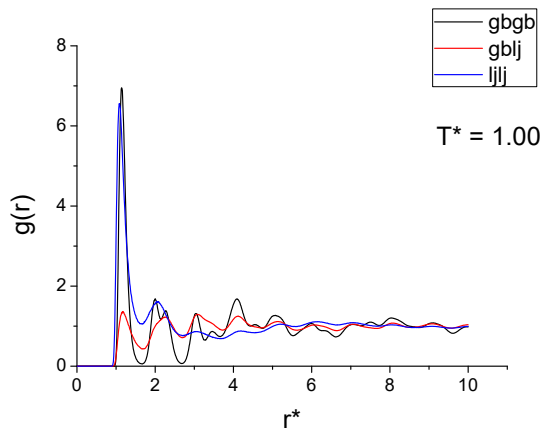
GB:LJ = 1:1, $\rho^* = 0.363$, $\eta^* = 0.514$

$q^* = 0.0/-0.0$



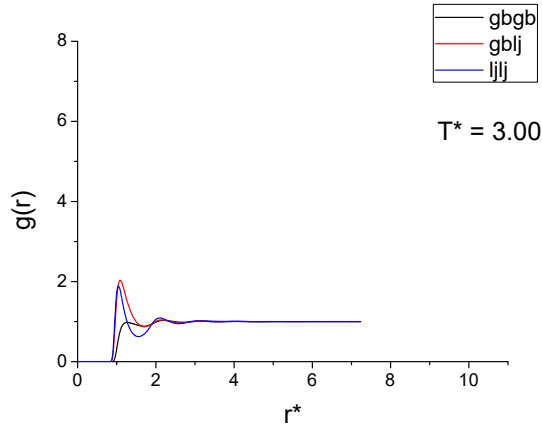
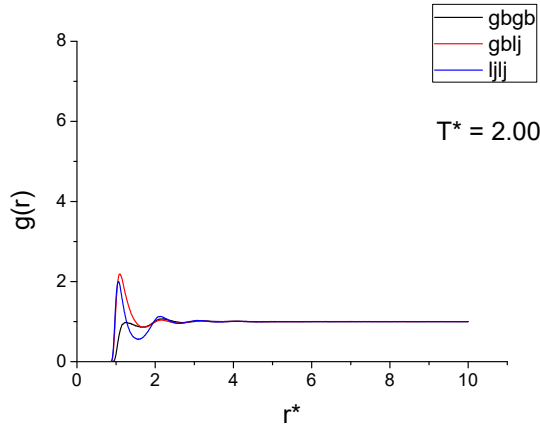
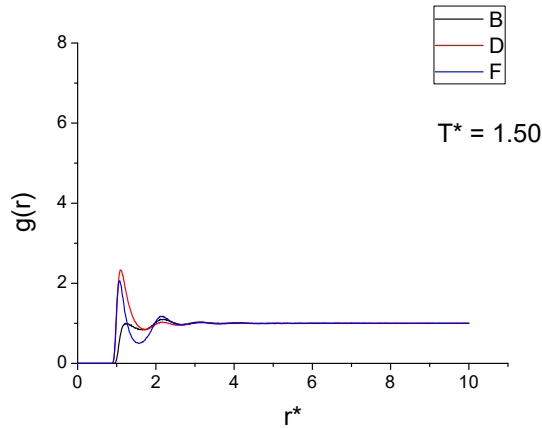
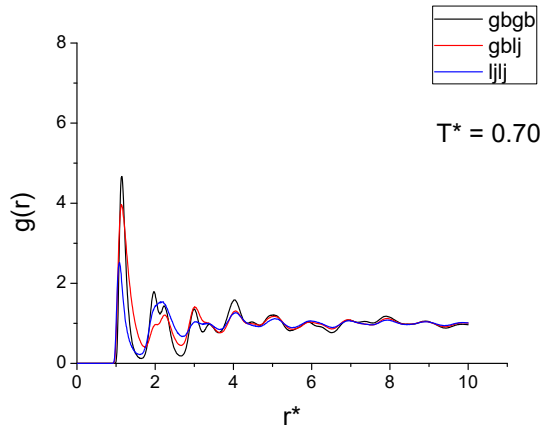
GB:LJ = 1:1, $\rho^* = 0.363$, $\eta^* = 0.514$

$q^* = 0.5/-0.5$



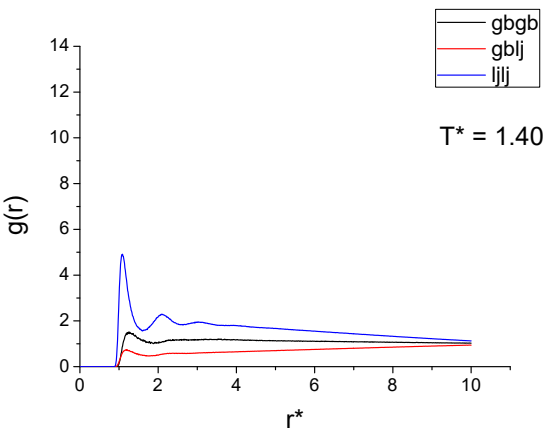
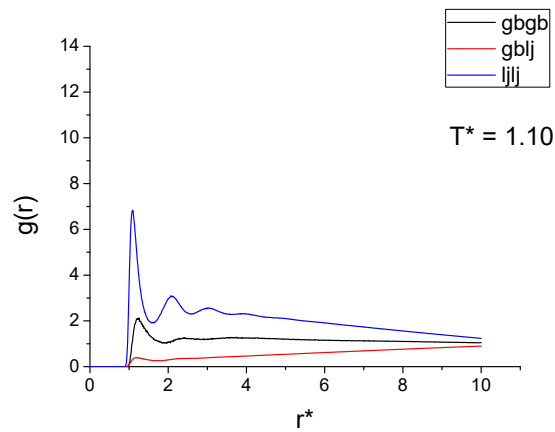
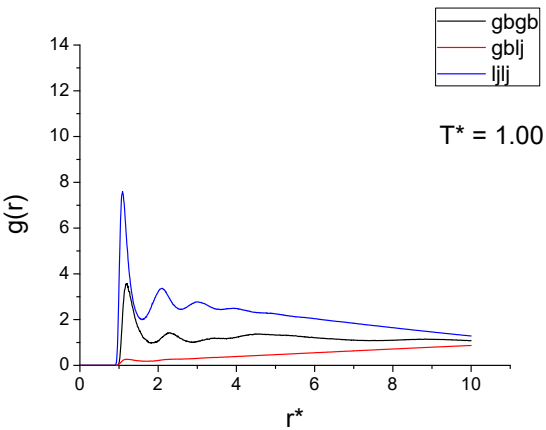
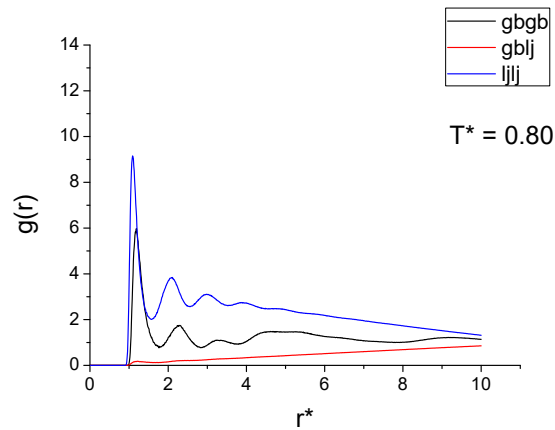
GB:LJ = 1:1, $\rho^* = 0.363$, $\eta^* = 0.514$

$q^* = 2.0/-2.0$



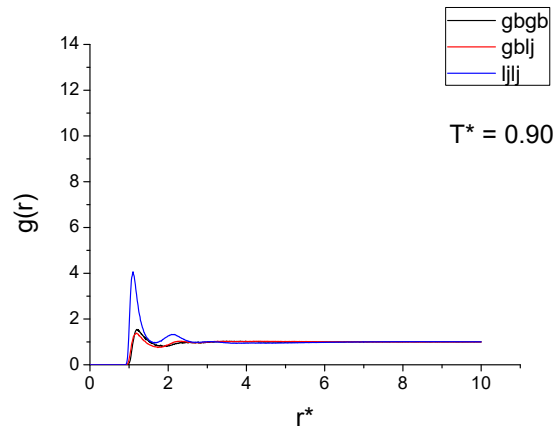
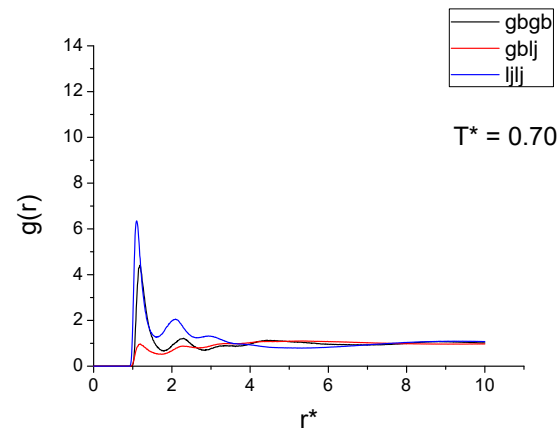
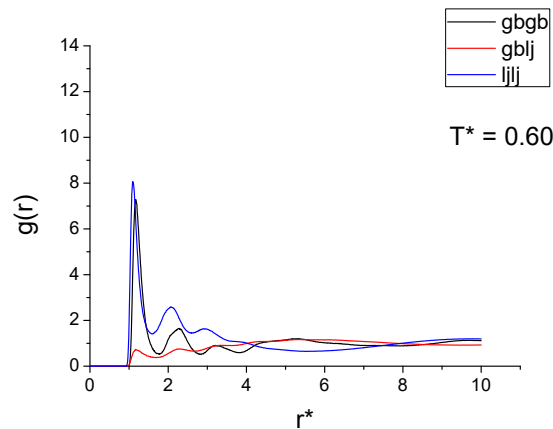
GB:LJ = 1:2, $\rho^* = 0.332$, $\eta^* = 0.371$

$q^* = 0.0/-0.0$



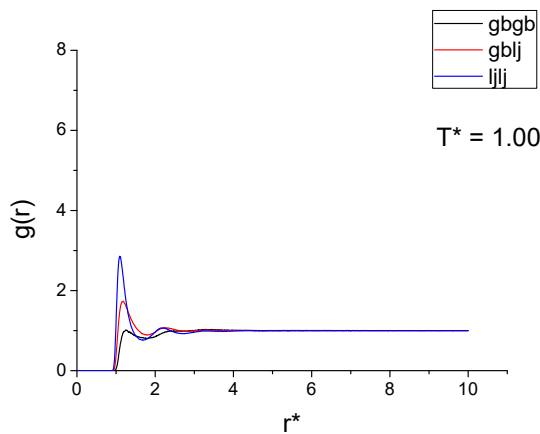
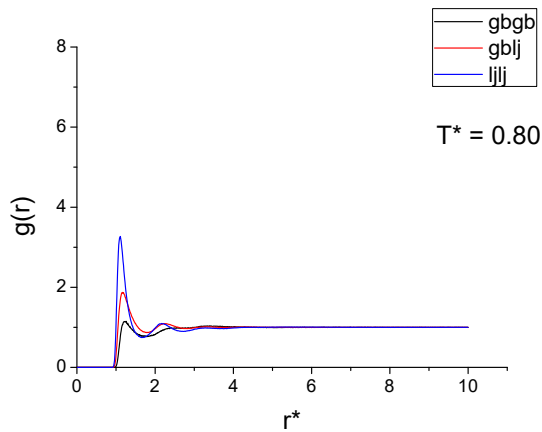
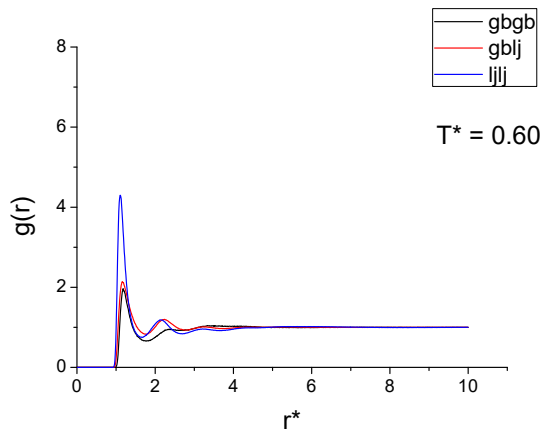
GB:LJ = 1:2, $\rho^* = 0.332$, $\eta^* = 0.371$

$q^* = 0.5 / -0.25$



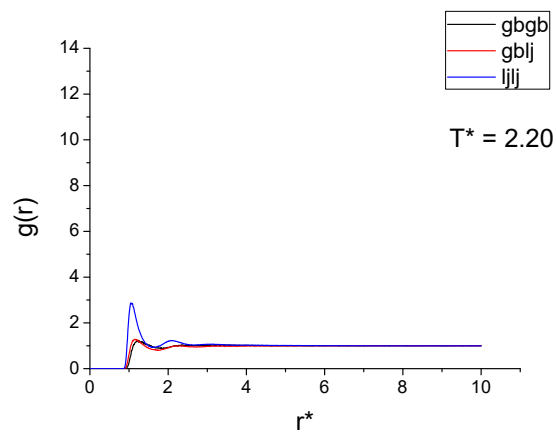
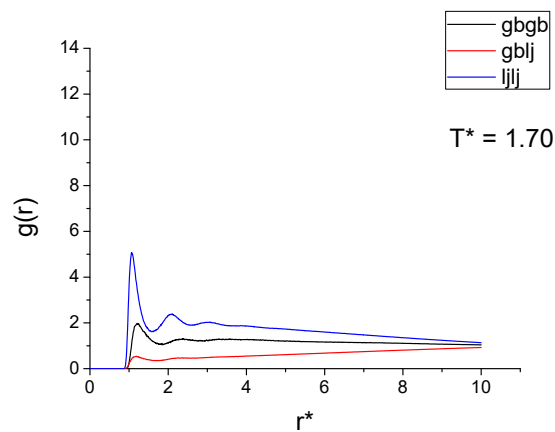
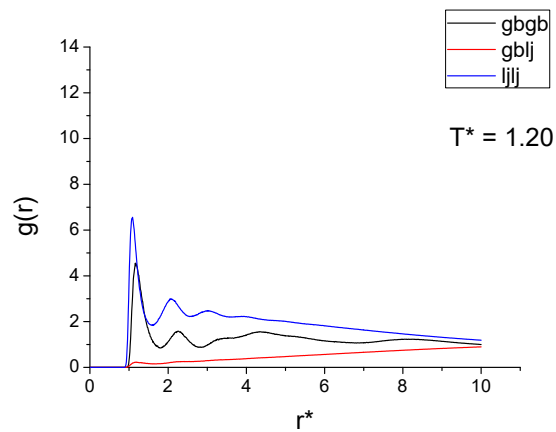
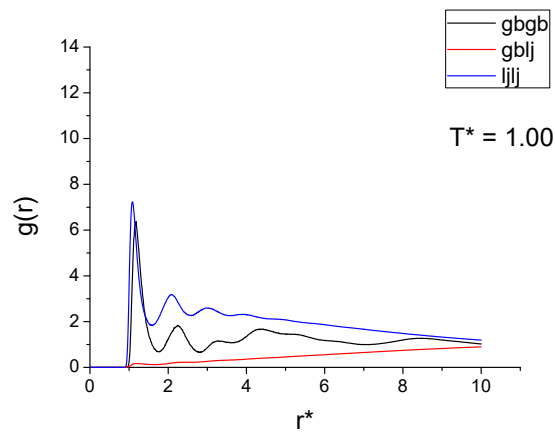
GB:LJ = 1:2, $\rho^* = 0.332$, $\eta^* = 0.371$

$q^* = 1.0/-0.5$



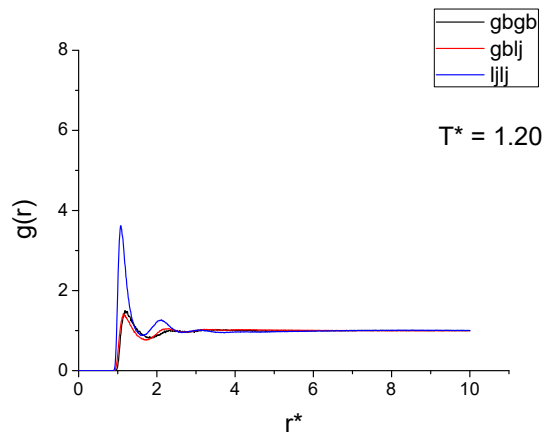
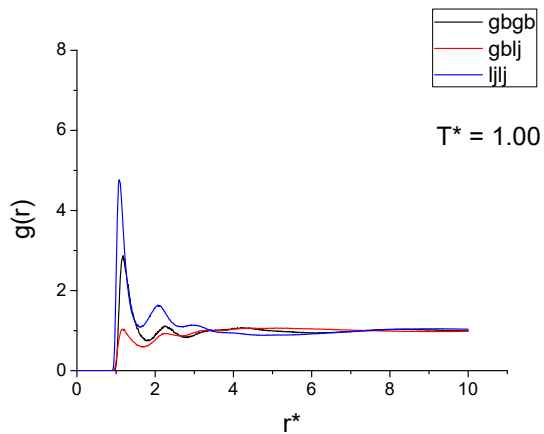
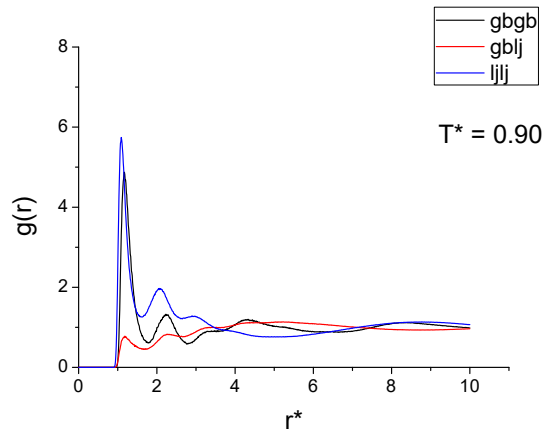
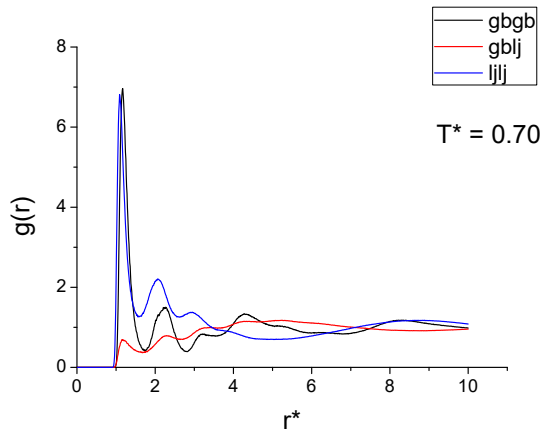
GB:LJ = 1:2, $\rho^* = 0.383$, $\eta^* = 0.428$

$q^* = 0.0 / -0.0$



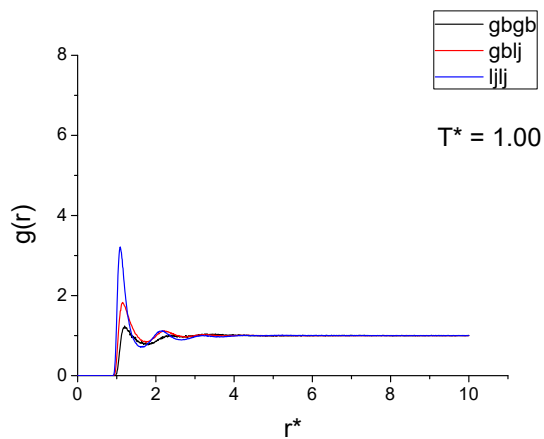
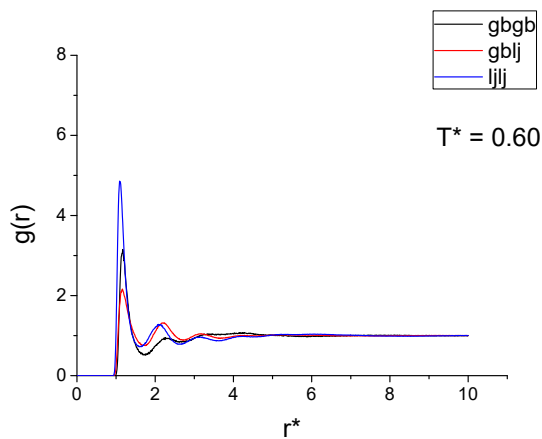
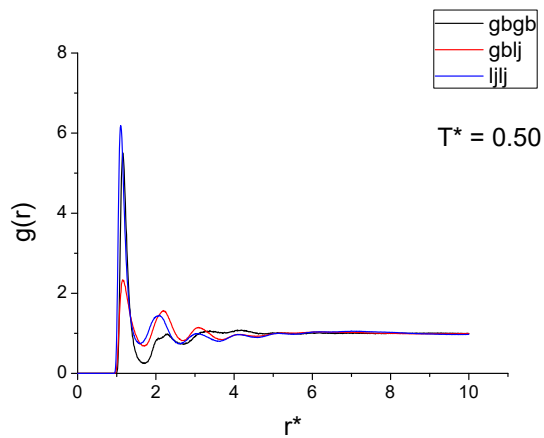
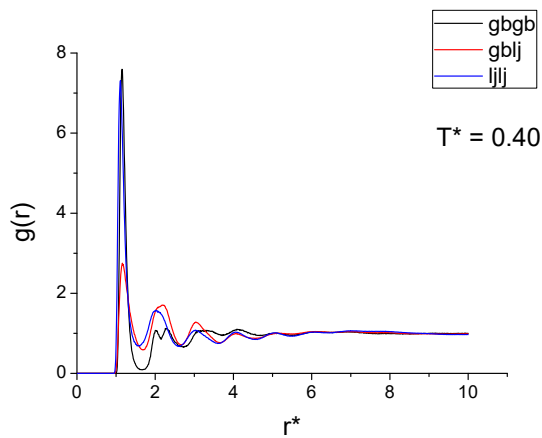
GB:LJ = 1:2, $\rho^* = 0.383$, $\eta^* = 0.428$

$q^* = 0.50 / -0.25$



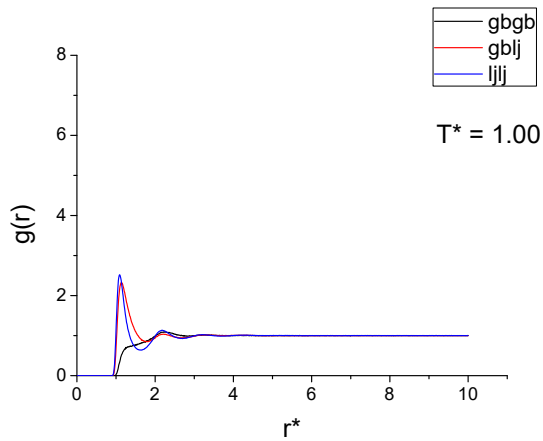
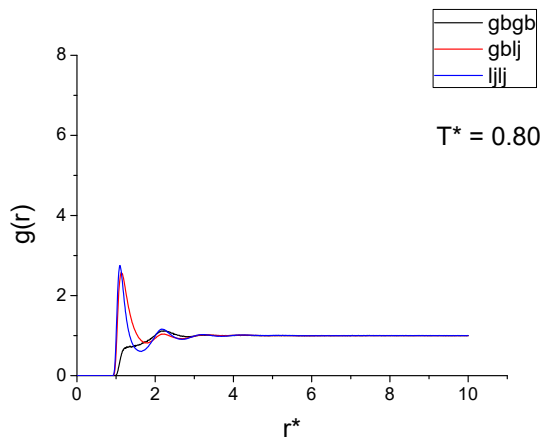
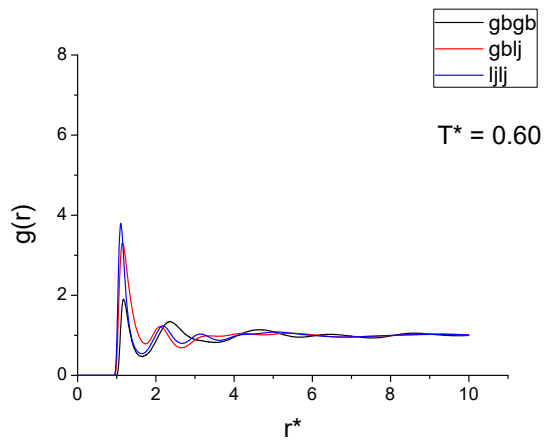
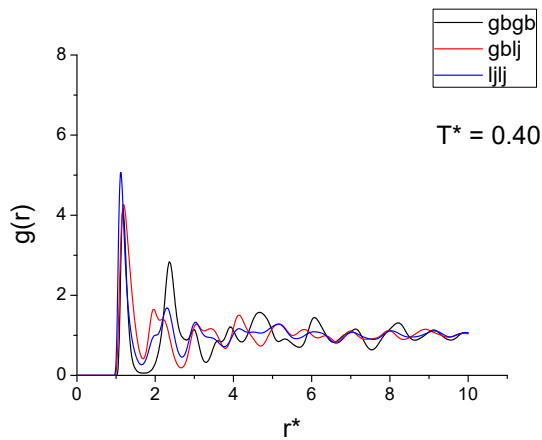
GB:LJ = 1:2, $\rho^* = 0.383$, $\eta^* = 0.428$

$q^* = 1.00 / -0.50$



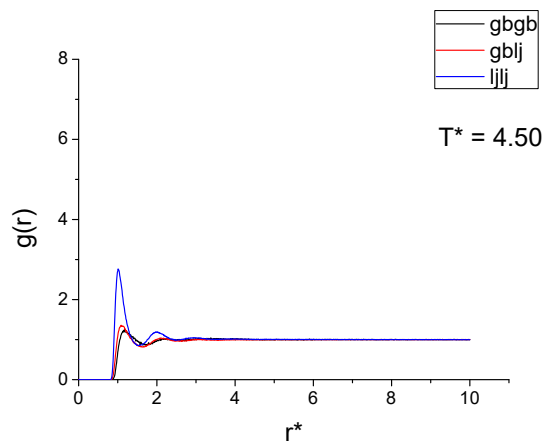
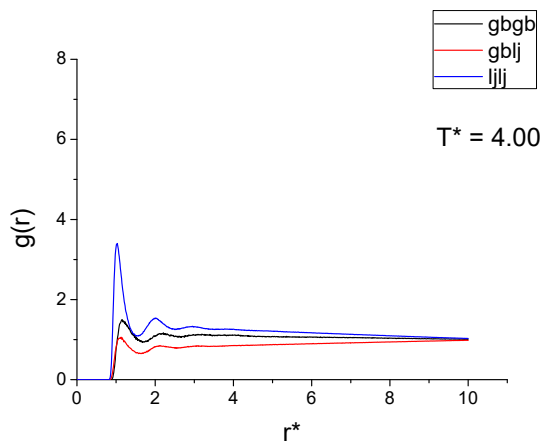
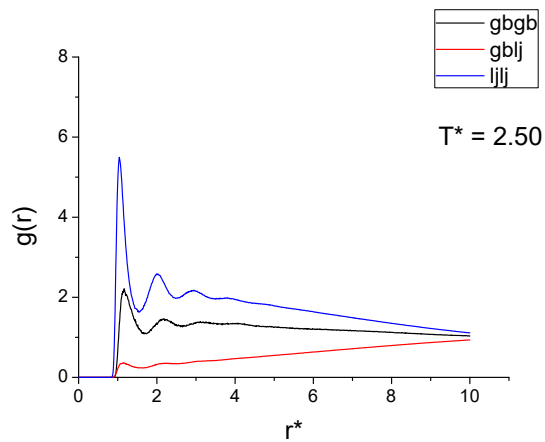
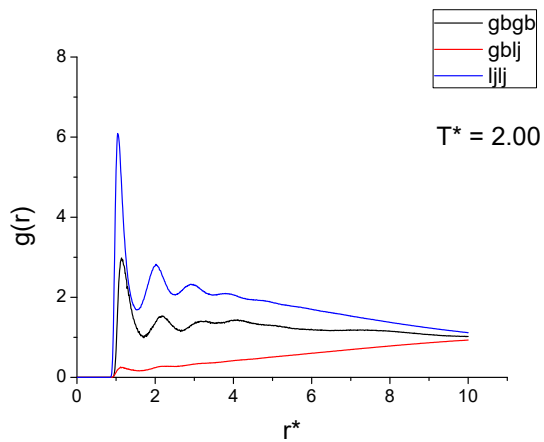
GB:LJ = 1:2, $\rho^* = 0.383$, $\eta^* = 0.428$

$q^* = 2.00 / -1.00$



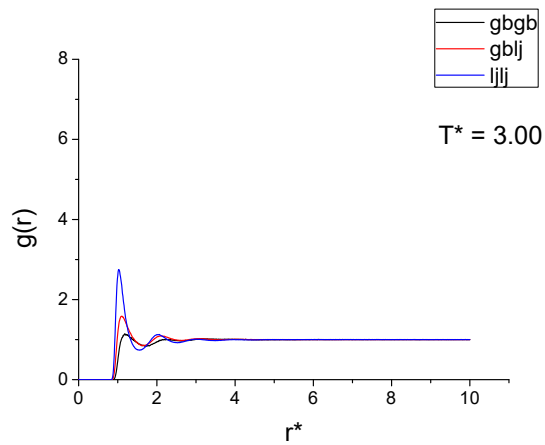
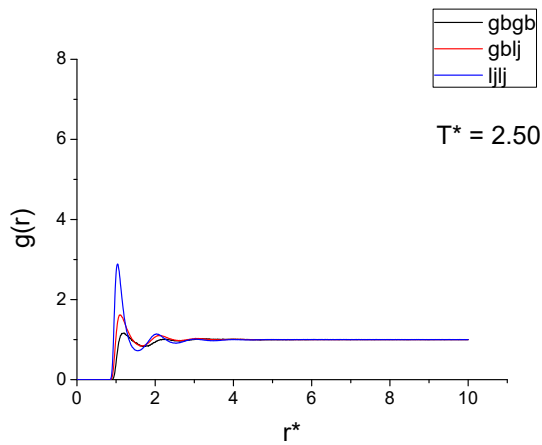
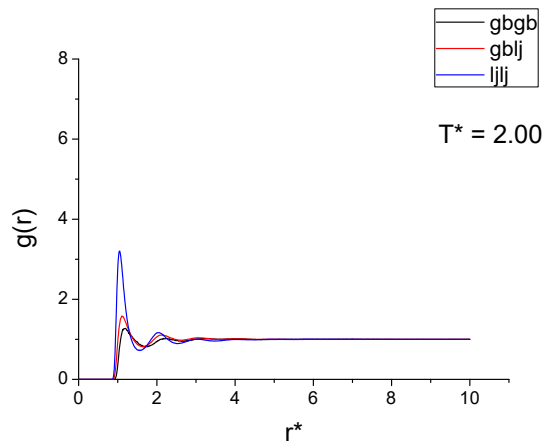
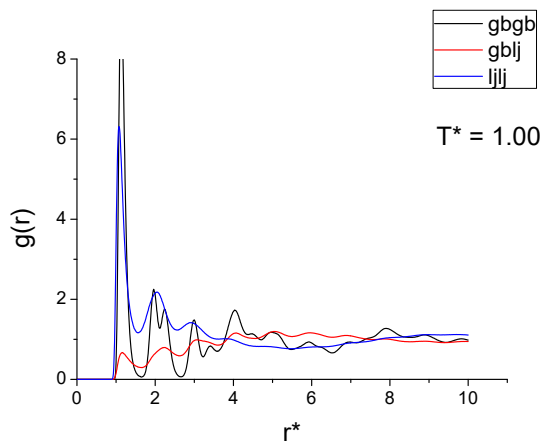
GB:LJ = 1:2, $\rho^* = 0.460$, $\eta^* = 0.514$

$q^* = 0.0 / -0.0$



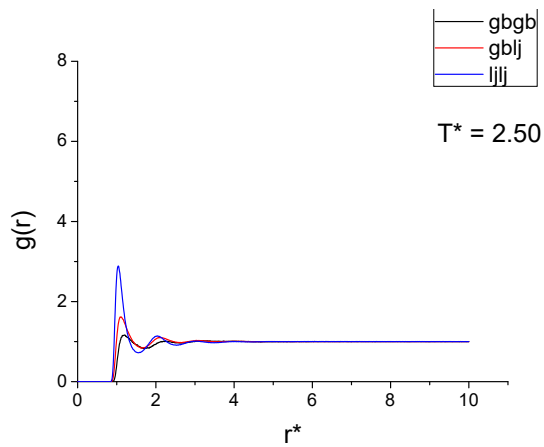
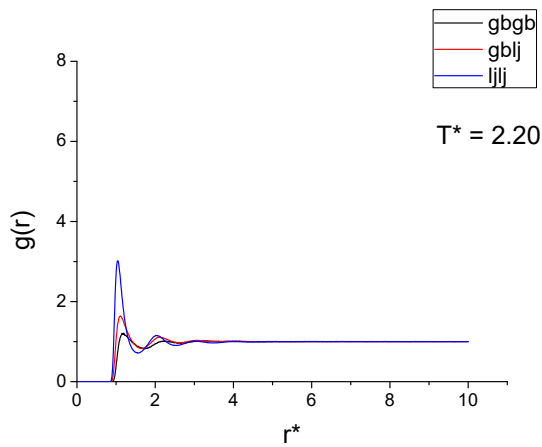
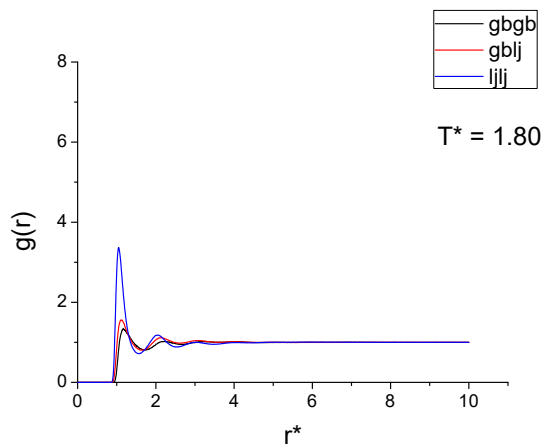
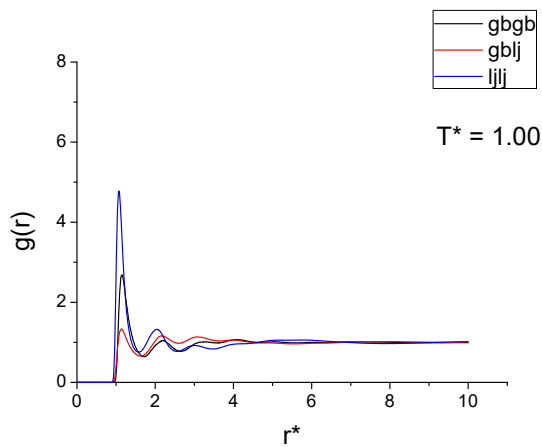
GB:LJ = 1:2, $\rho^* = 0.460$, $\eta^* = 0.514$

$q^* = 0.50 / -0.25$



GB:LJ = 1:2, $\rho^* = 0.460$, $\eta^* = 0.514$

$q^* = 1.00 / -0.50$



GB:LJ = 1:2, $\rho^* = 0.460$, $\eta^* = 0.514$

$q^* = 2.00 / -1.00$

