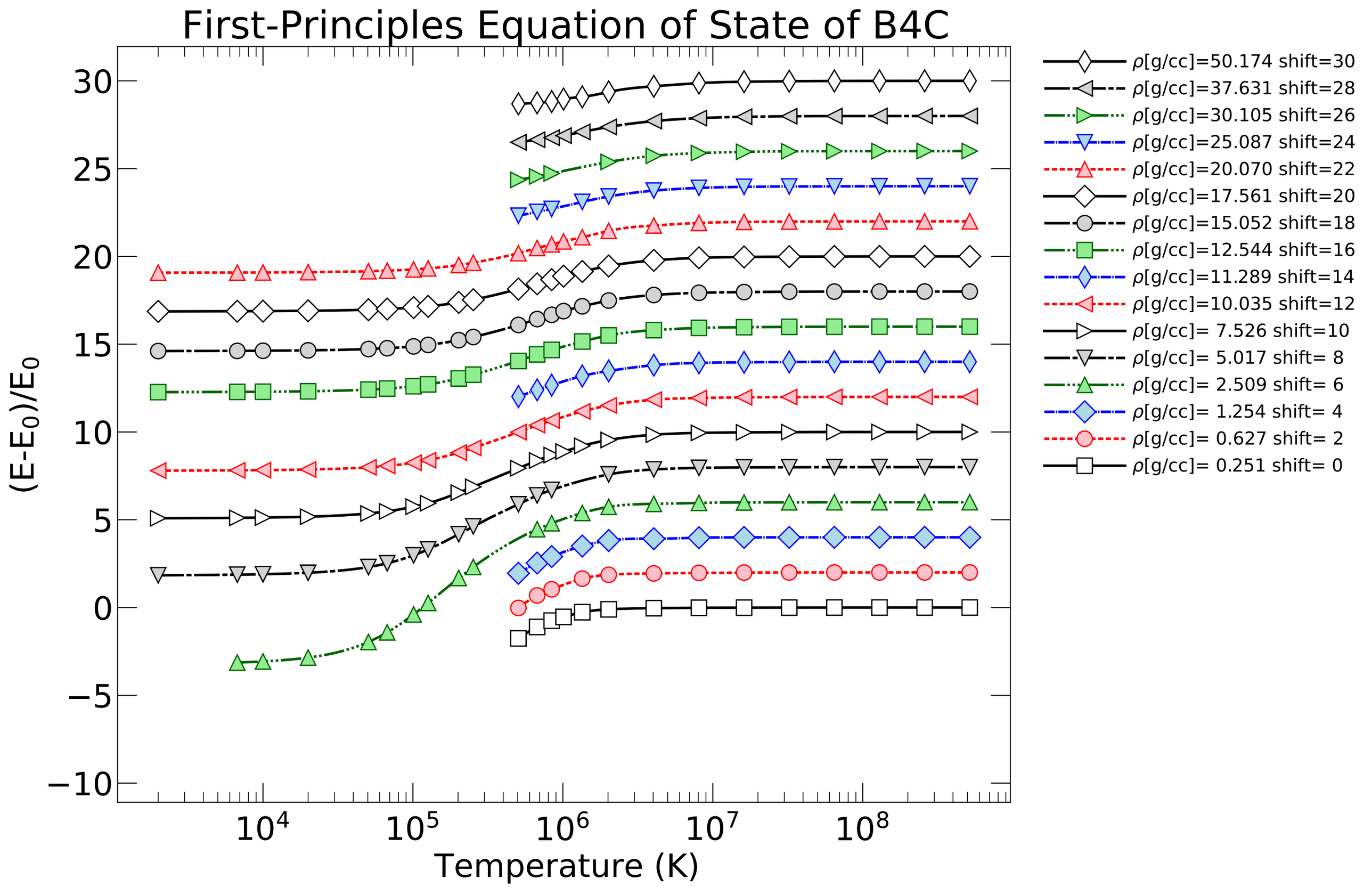
First-Principles Equation of State of B4C
(E-E0)/E0
Temperature (K)
30
25
20
15
10
5
0
−5
−10
10^4
10^5
10^6
10^7
10^8
ρ[g/cc]=50.174 shift=30
ρ[g/cc]=37.631 shift=28
ρ[g/cc]=30.105 shift=26
ρ[g/cc]=25.087 shift=24
ρ[g/cc]=20.070 shift=22
ρ[g/cc]=17.561 shift=20
ρ[g/cc]=15.052 shift=18
ρ[g/cc]=12.544 shift=16
ρ[g/cc]=11.289 shift=14
ρ[g/cc]=10.035 shift=12
ρ[g/cc]= 7.526 shift=10
ρ[g/cc]= 5.017 shift= 8
ρ[g/cc]= 2.509 shift= 6
ρ[g/cc]= 1.254 shift= 4
ρ[g/cc]= 0.627 shift= 2
ρ[g/cc]= 0.251 shift= 0