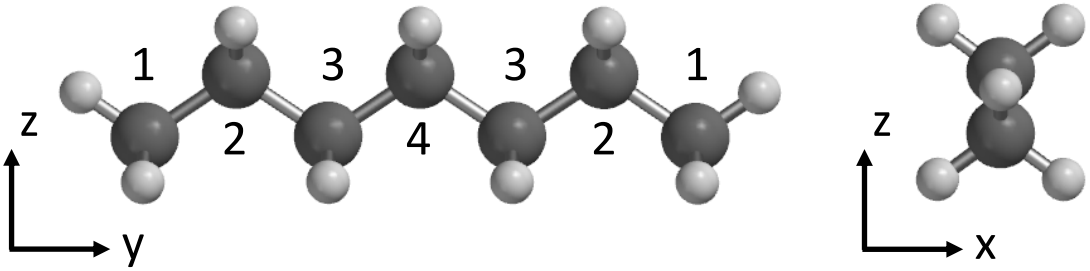

Scheme 1

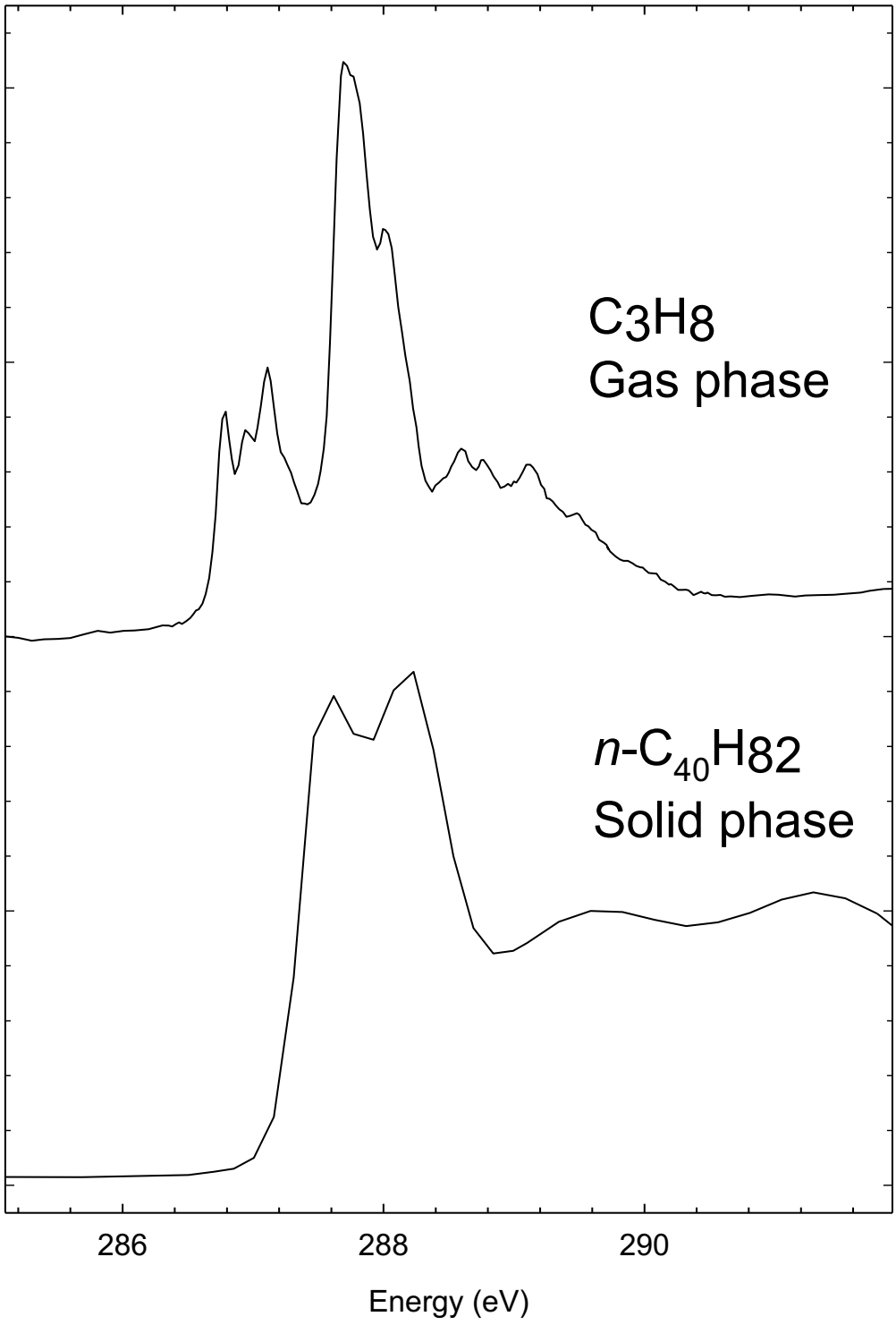

Figure 1

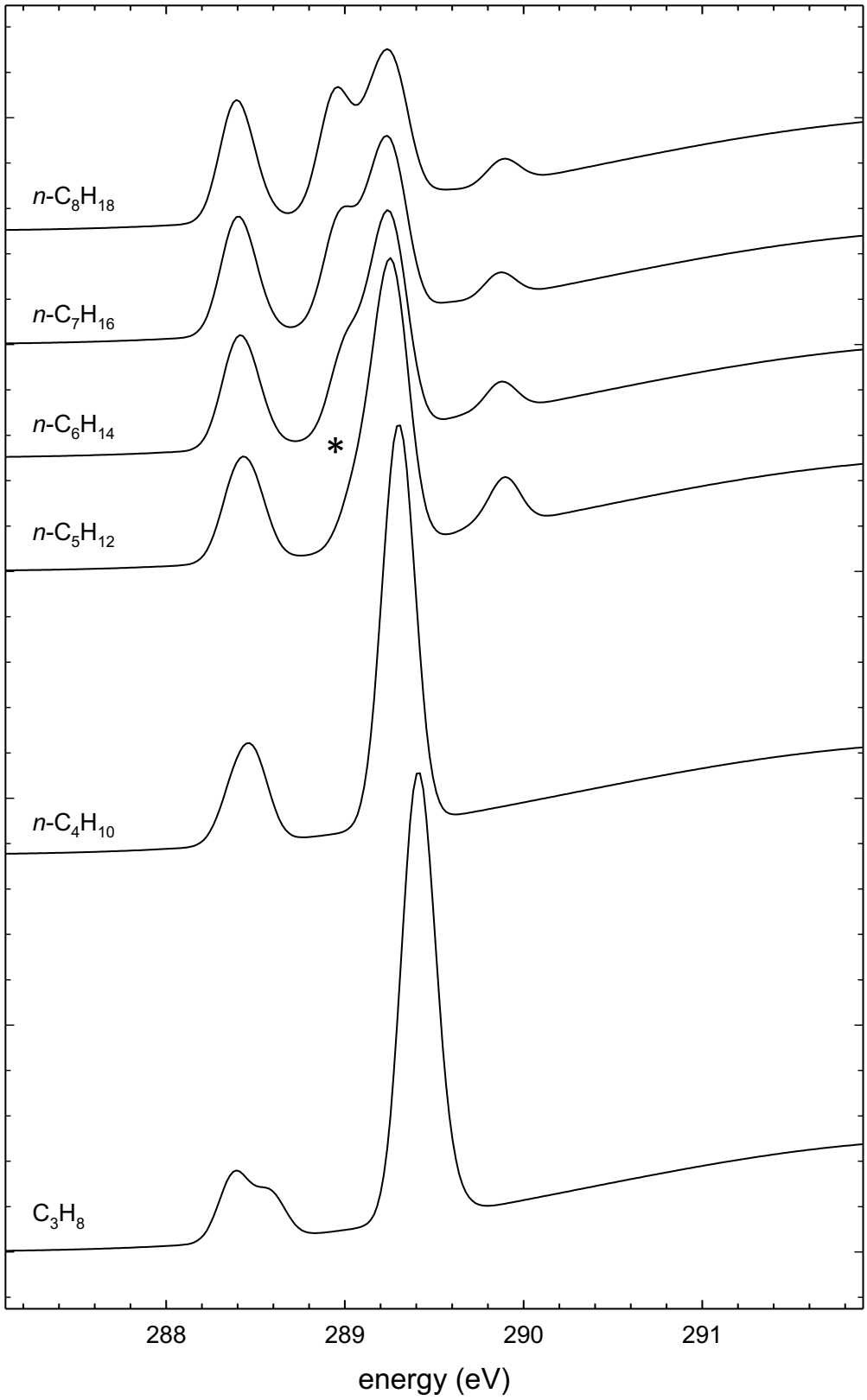
n-C8H18
n-C7H16
n-C6H14
n-C5H12
n-C4H10
C3H8
*
288
289
290
291
energy (eV)

Figure 2

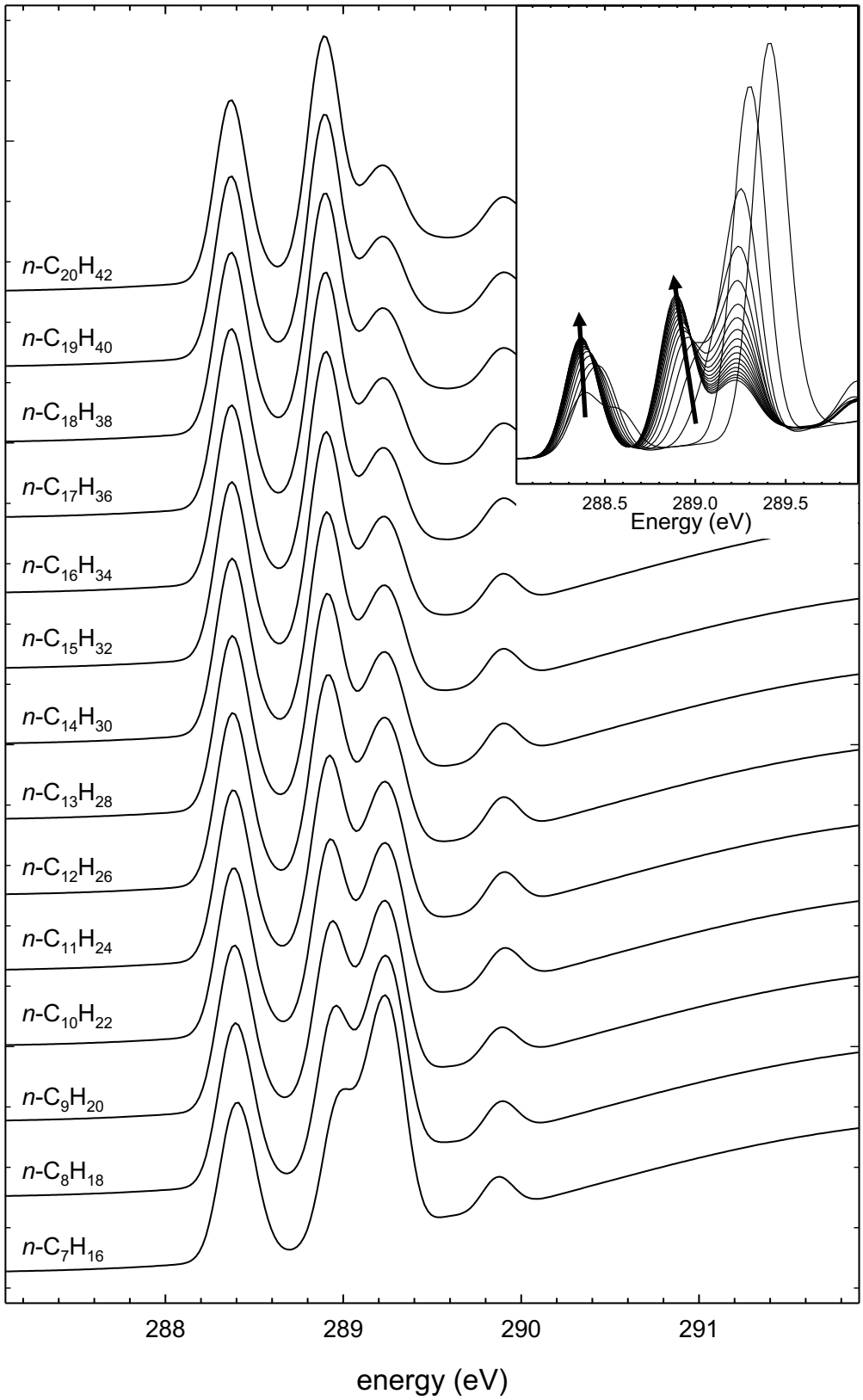
n-C20H42
n-C19H40
n-C18H38
n-C17H36
n-C16H34
n-C15H32
n-C14H30
n-C13H28
n-C12H26
n-C11H24
n-C10H22
n-C9H20
n-C8H18
n-C7H16
288
289
290
291
energy (eV)
288.5
289.0
289.5
Energy (eV)

Figure 3

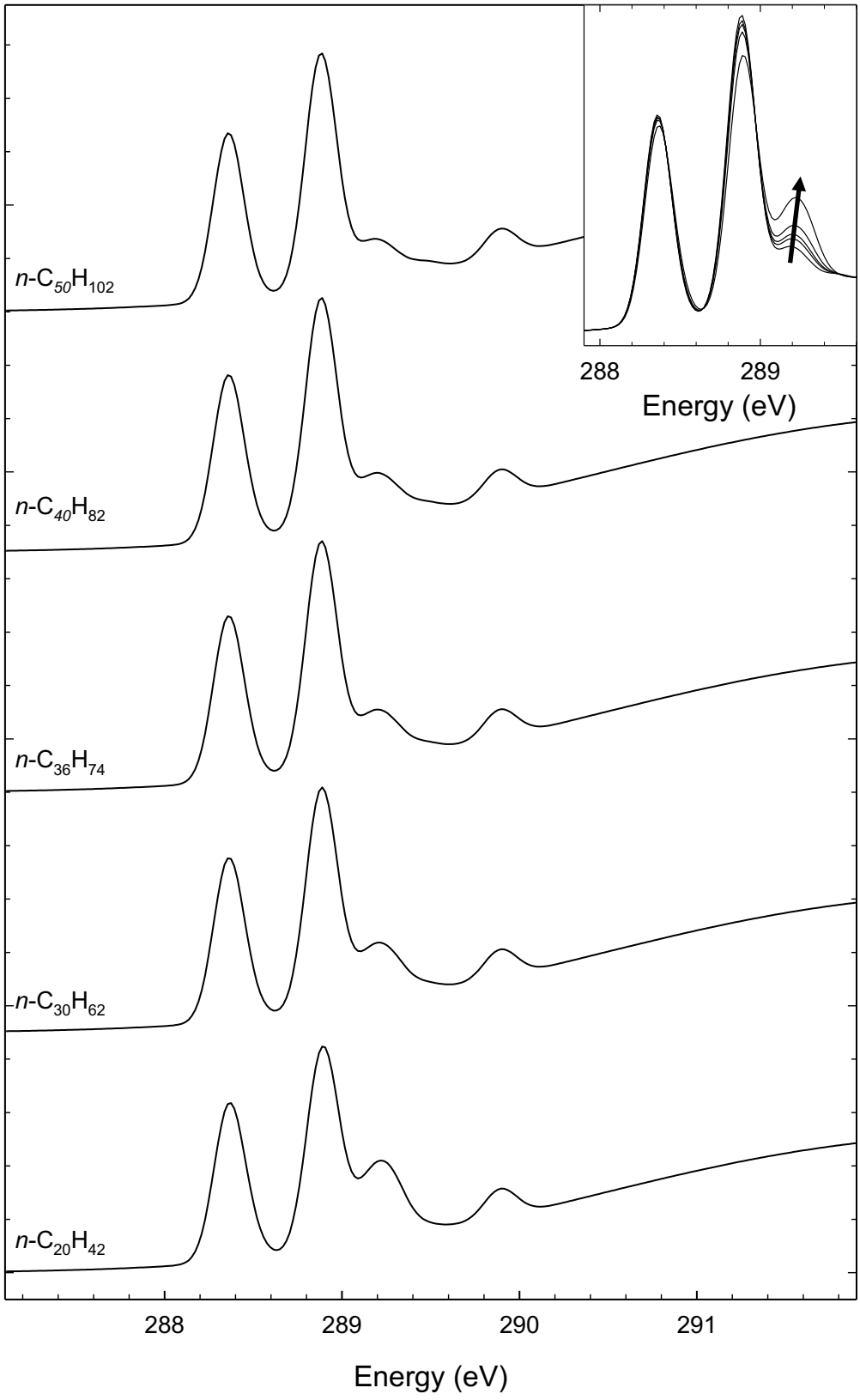
n-C50H102
n-C40H82
n-C36H74
n-C30H62
n-C20H42
288
289
290
291
Energy (eV)
288
289
Energy (eV)

Figure 4

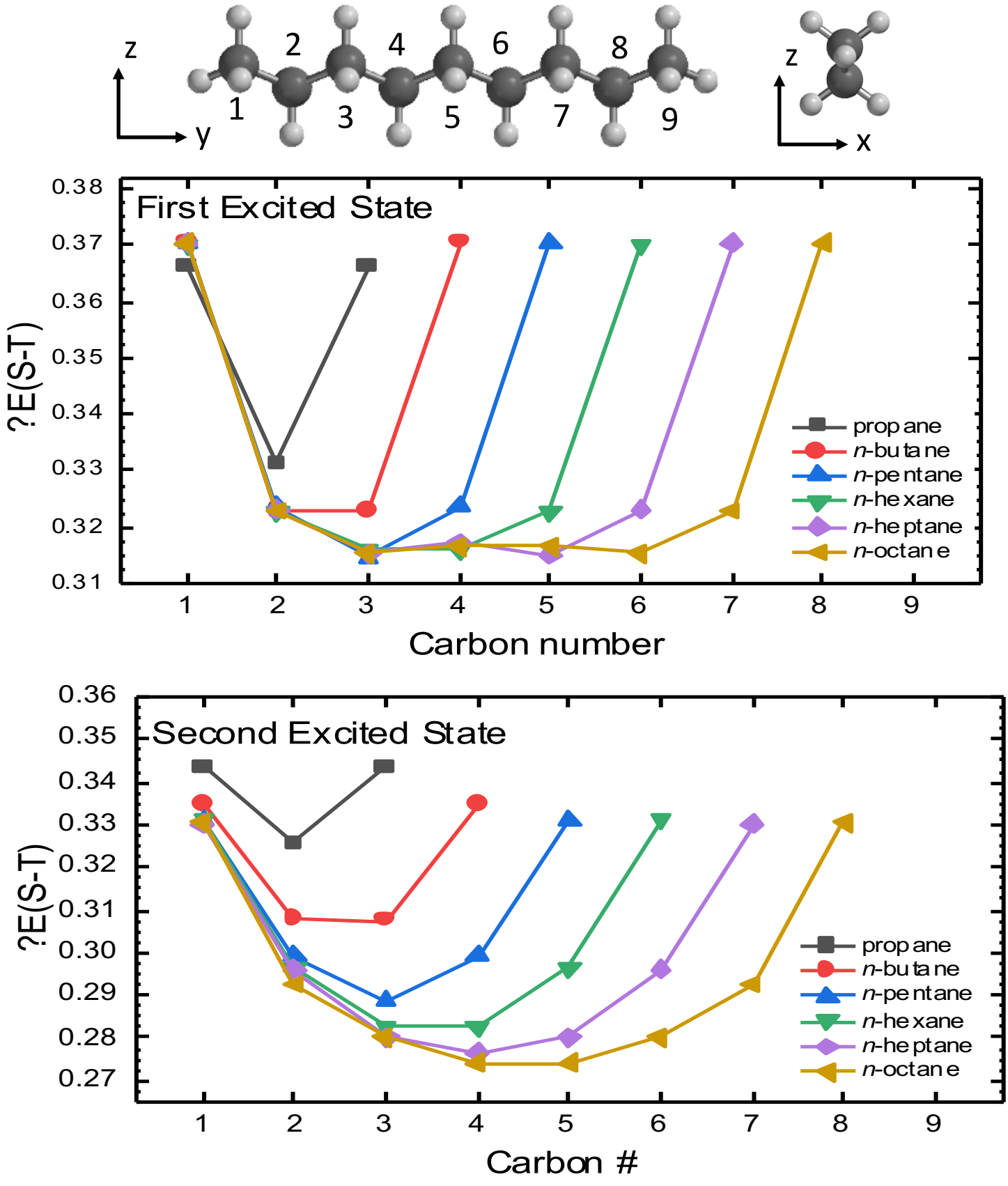
z
y
1
2
3
4
5
6
7
8
9
z
x
First Excited State
?E(S-T)
Carbon number
propane
n-butane
n-pentane
n-hexane
n-heptane
n-octane
Second Excited State
?E(S-T)
Carbon #
propane
n-butane
n-pentane
n-hexane
n-heptane
n-octane

Figure 6