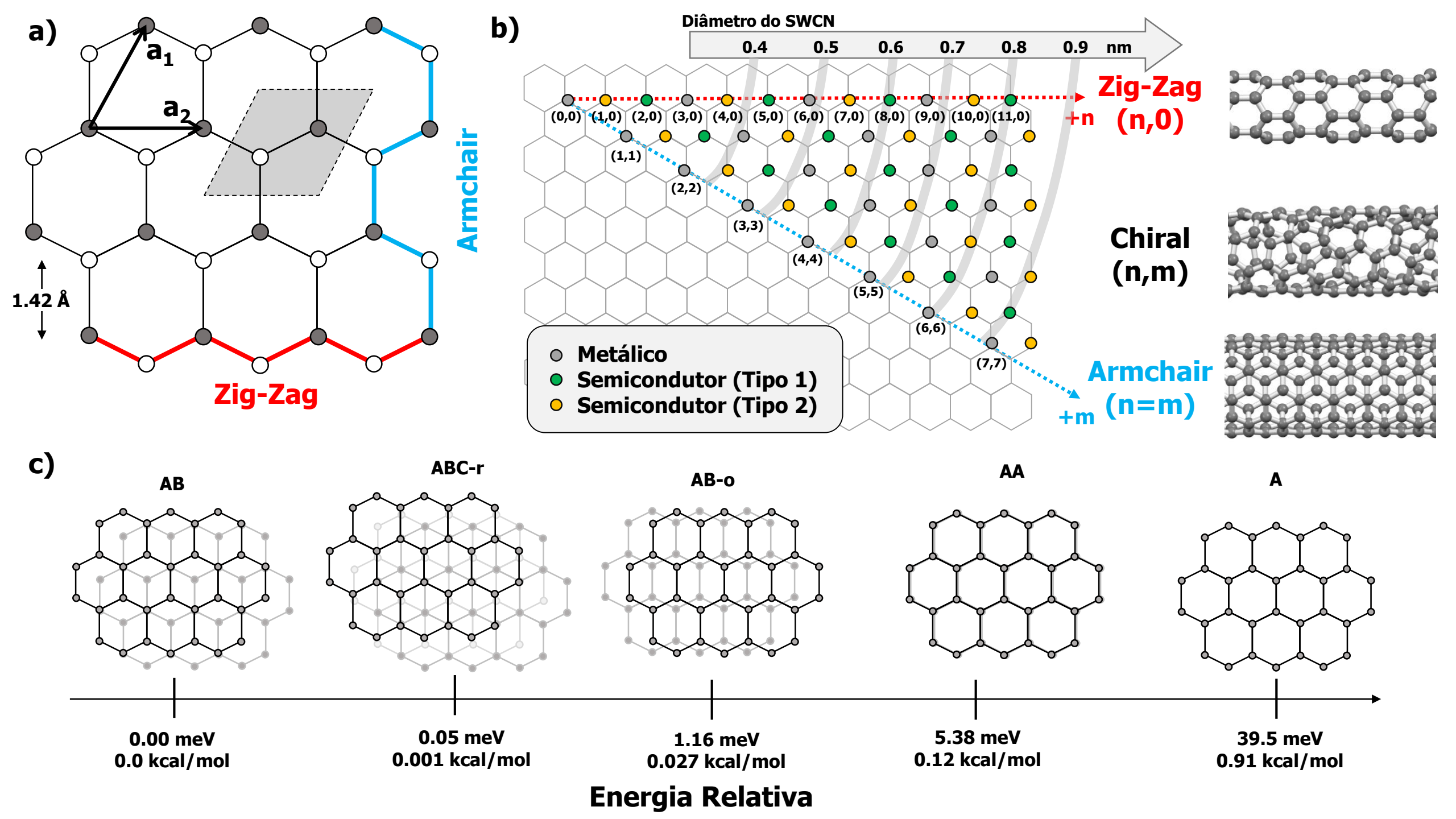
a)
a1
a2
1.42 Å
Armchair
Zig-Zag
b)
Diâmetro do SWCN
0.4
0.5
0.6
0.7
0.8
0.9
nm
(0,0)
(1,0)
(2,0)
(3,0)
(4,0)
(5,0)
(6,0)
(7,0)
(8,0)
(9,0)
(10,0)
(11,0)
(1,1)
(2,2)
(3,3)
(4,4)
(5,5)
(6,6)
(7,7)
+n
Zig-Zag
(n,0)
Chiral
(n,m)
+m
Armchair
(n=m)
Metálico
Semicondutor (Tipo 1)
Semicondutor (Tipo 2)
c)
AB
ABC-r
AB-o
AA
A
0.00 meV
0.0 kcal/mol
0.05 meV
0.001 kcal/mol
1.16 meV
0.027 kcal/mol
5.38 meV
0.12 kcal/mol
39.5 meV
0.91 kcal/mol
Energia Relativa