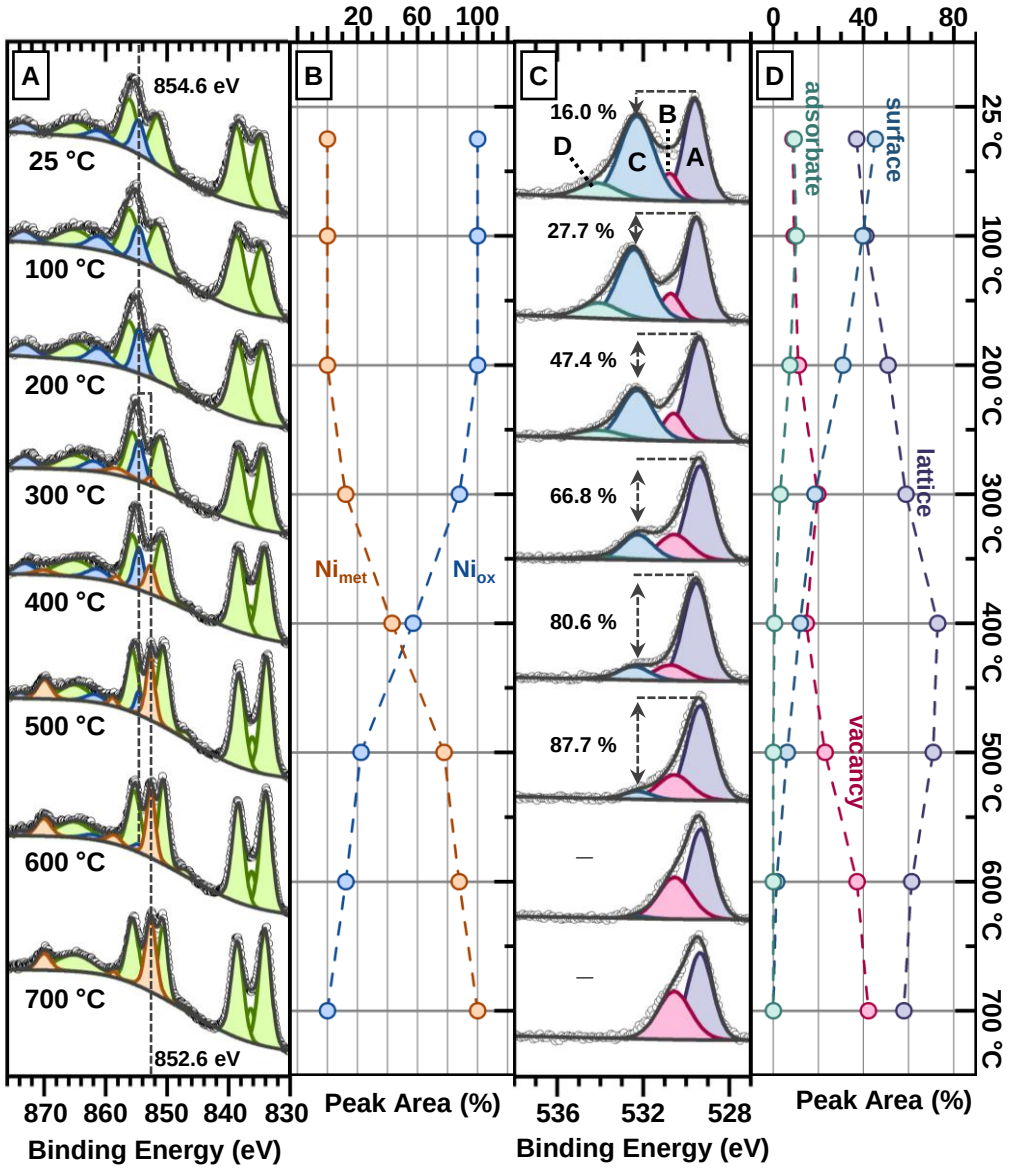

A
854.6 eV
25 °C
100 °C
200 °C
300 °C
400 °C
500 °C
600 °C
700 °C
852.6 eV
870 860 850 840 830
Binding Energy (eV)
B
20 60 100
Ni$_{met}$
Ni$_{ox}$
Peak Area (%)
C
16.0 %
27.7 %
47.4 %
66.8 %
80.6 %
87.7 %
A
B
C
D
536 532 528
Binding Energy (eV)
D
0 40 80
adsorbate
surface
lattice
vacancy
Peak Area (%)
25 °C
100 °C
200 °C
300 °C
400 °C
500 °C
600 °C
700 °C