Fig. 1

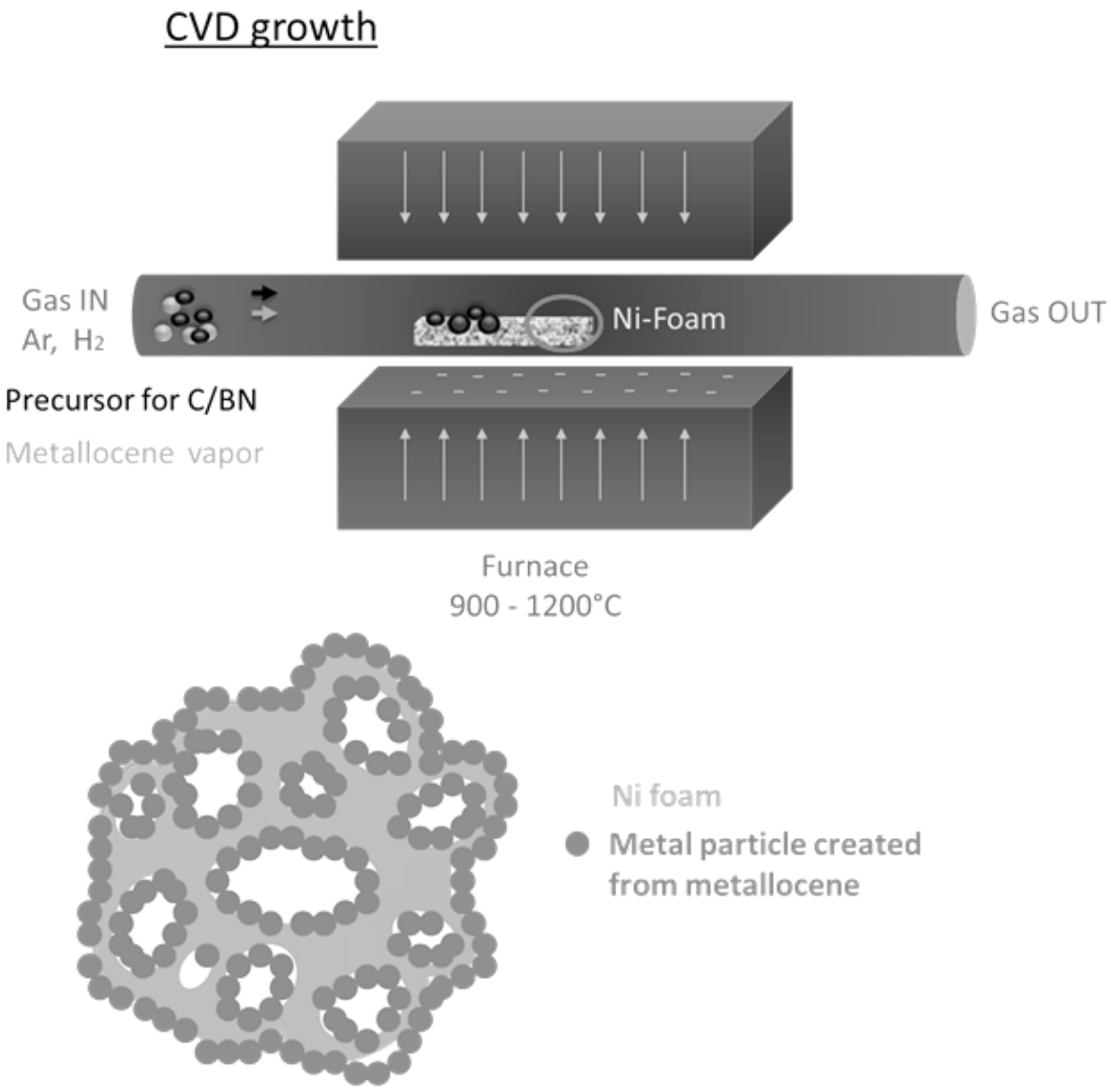

CVD growth
Gas IN
Ar, H2
Ni-Foam
Gas OUT
Precursor for C/BN
Metallocene vapor
Furnace
900 - 1200°C
Ni foam
Metal particle created from metallocene

Fig. 2

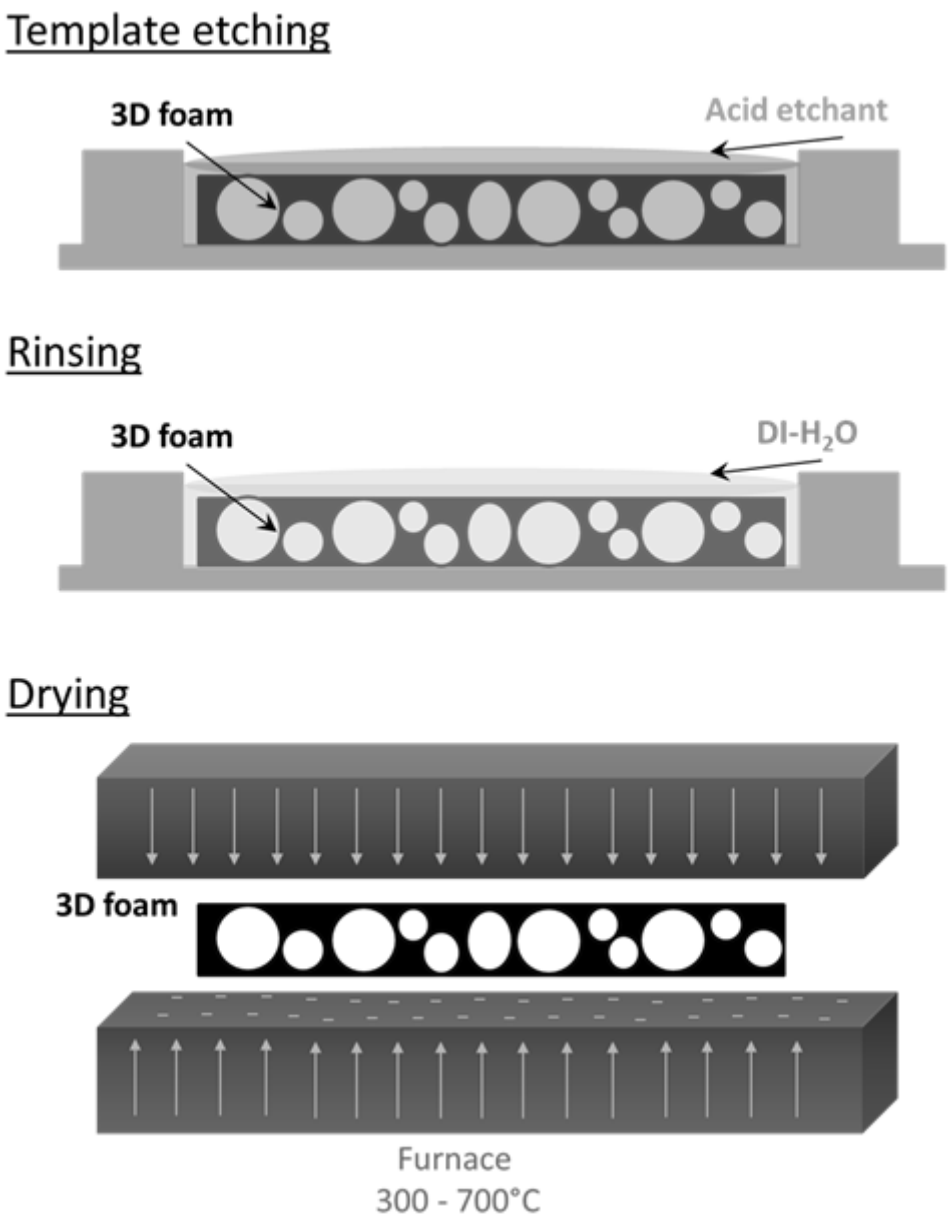

Template etching
3D foam
Acid etchant
Rinsing
3D foam
DI-H2O
Drying
3D foam
Furnace
300 - 700°C

Fig. 3

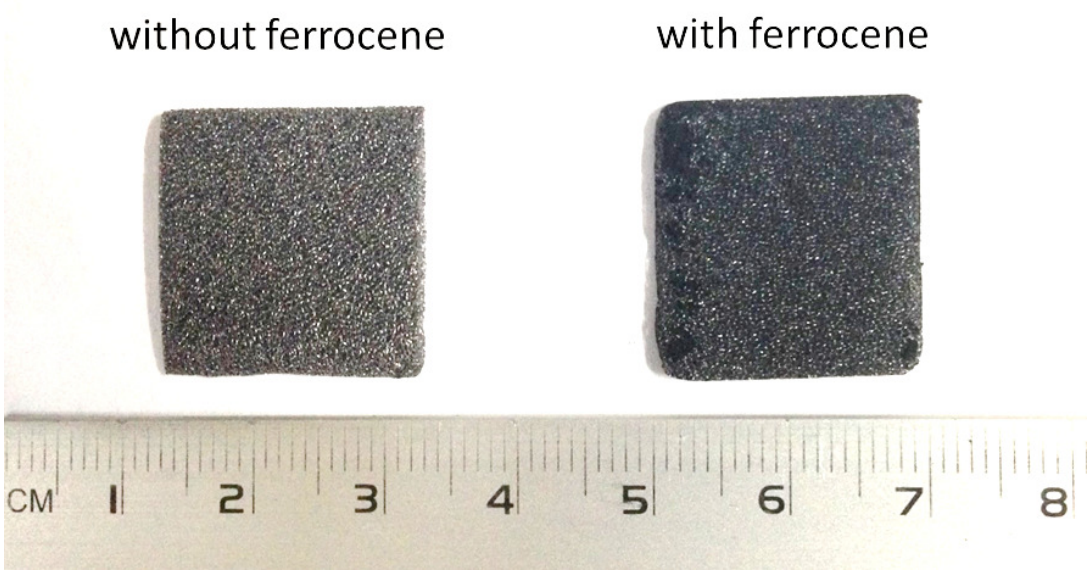


Fig. 4

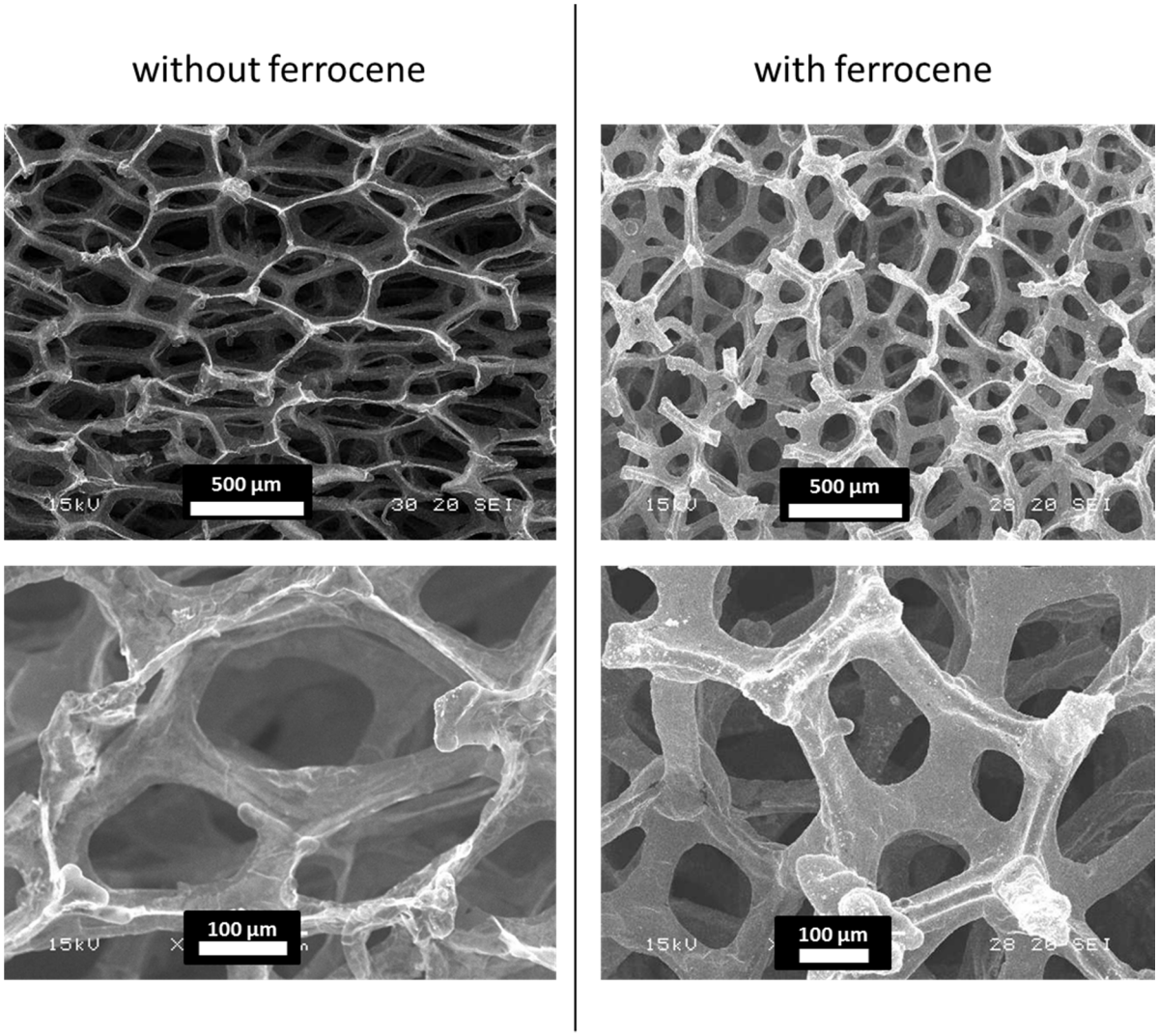

without ferrocene
with ferrocene
500 µm
15kV
30 Z0 SEI
500 µm
15kV
28 Z0 SEI
100 µm
15kV
100 µm
15kV
28 Z0 SEI

Fig. 5

