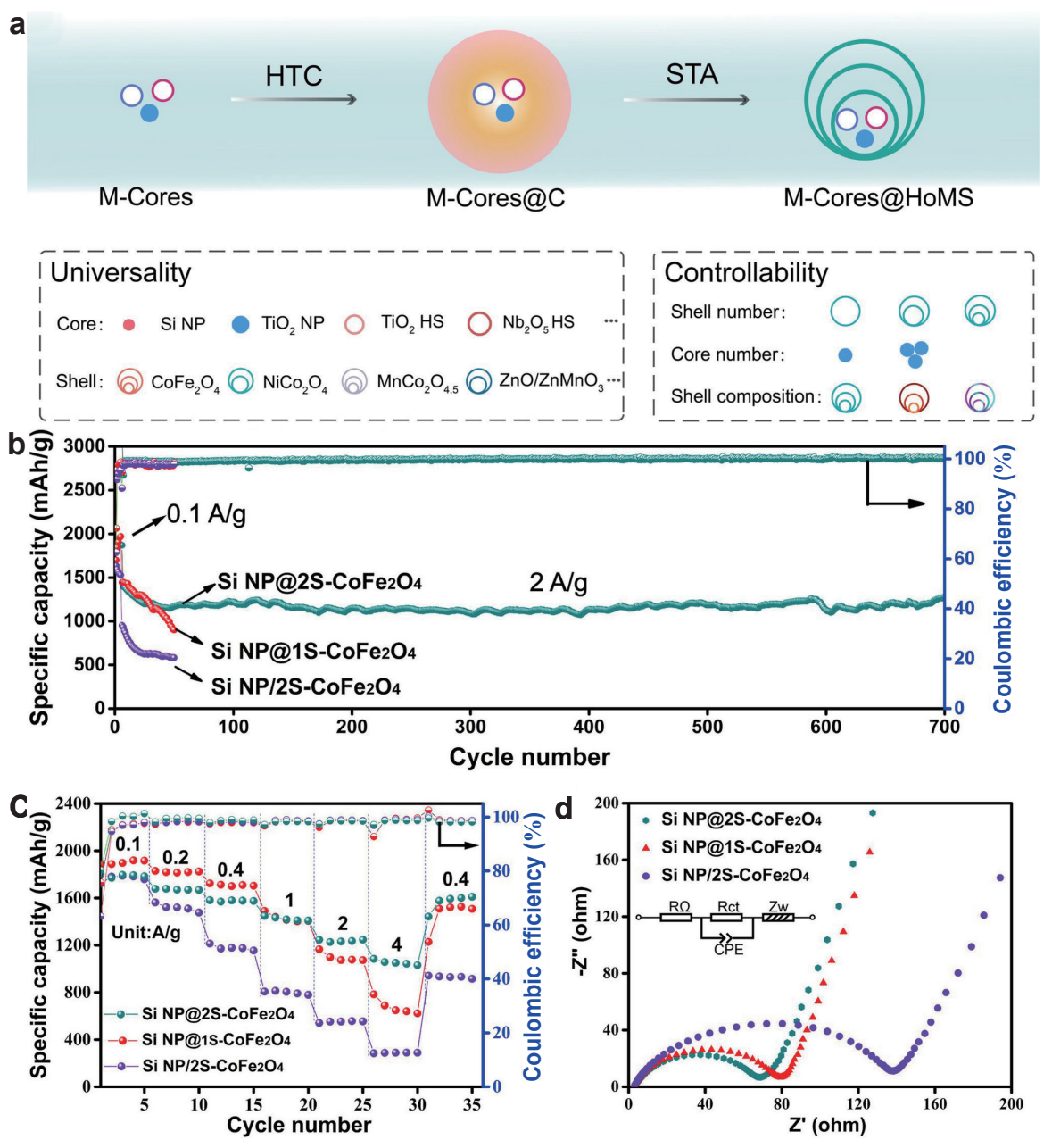
a
HTC
STA
M-Cores
M-Cores@C
M-Cores@HoMS
Universality
Core: Si NP TiO2 NP TiO2 HS Nb2O5 HS ...
Shell: CoFe2O4 NiCo2O4 MnCo2O4.5 ZnO/ZnMnO3 ...
Controllability
Shell number:
Core number:
Shell composition:
b
Specific capacity (mAh/g)
Coulombic efficiency (%)
Cycle number
0.1 A/g
2 A/g
Si NP@2S-CoFe2O4
Si NP@1S-CoFe2O4
Si NP/2S-CoFe2O4
c
Specific capacity (mAh/g)
Coulombic efficiency (%)
Cycle number
Unit:A/g
0.1
0.2
0.4
1
2
4
0.4
Si NP@2S-CoFe2O4
Si NP@1S-CoFe2O4
Si NP/2S-CoFe2O4
d
Si NP@2S-CoFe2O4
Si NP@1S-CoFe2O4
Si NP/2S-CoFe2O4
RΩ
Rct
Zw
CPE
-Z'' (ohm)
Z' (ohm)