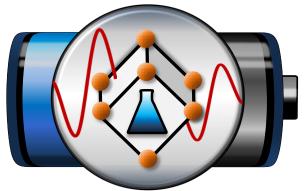
## FAUL SCHERRER INSTITUT Water based electrode for a P2-layered **oxide material for Na-ion batteries**



C. Marino\*, S. Park, C. Villevieille



Paul Scherrer Institut (PSI), Electrochemistry Laboratory, CH-5232 Villigen PSI, Switzerland

Email: cyril.marino@psi.ch

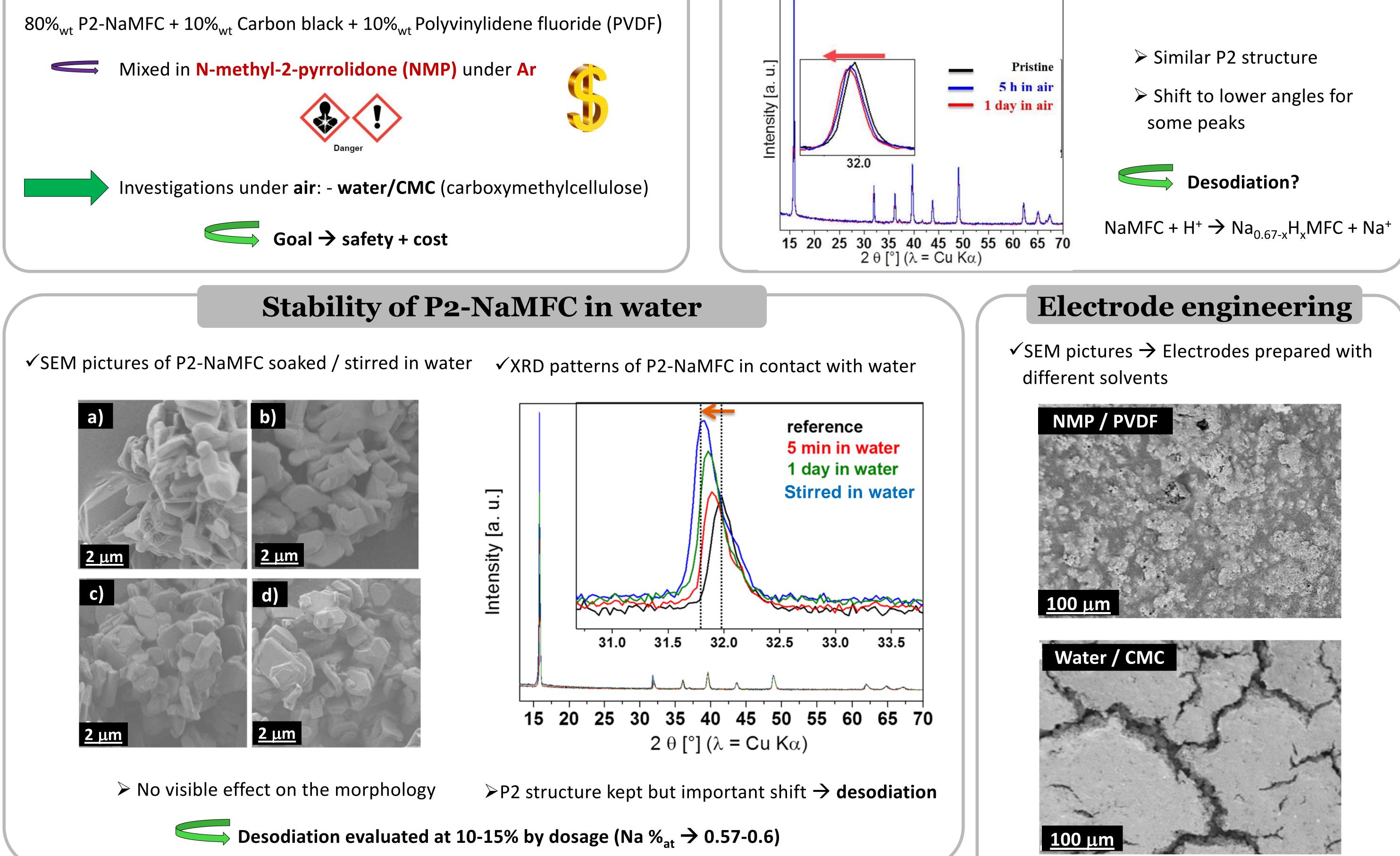
## Motivation

Standard electrode preparation of P2-NaMFC material  $\checkmark$ 

Mixed in N-methyl-2-pyrrolidone (NMP) under Ar

## **First Observation**

✓ XRD patterns on P2-NaMFC powder exposed to air

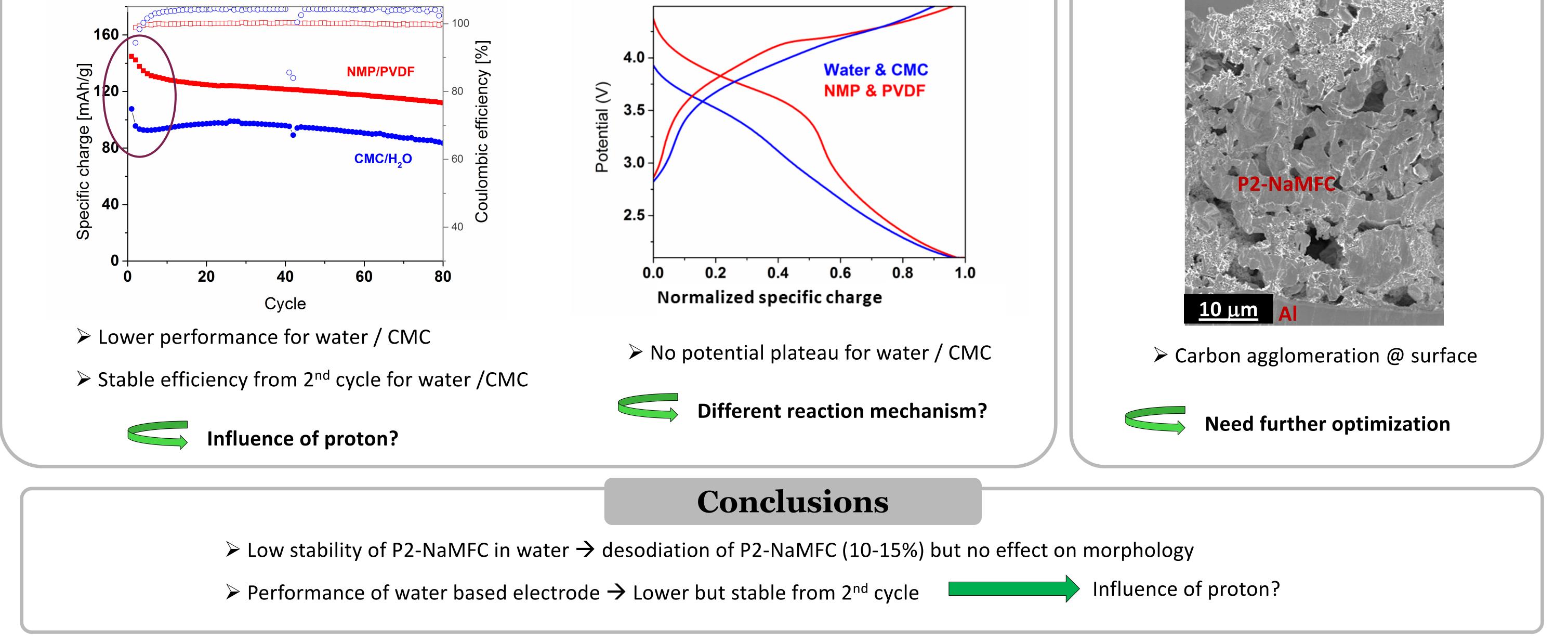


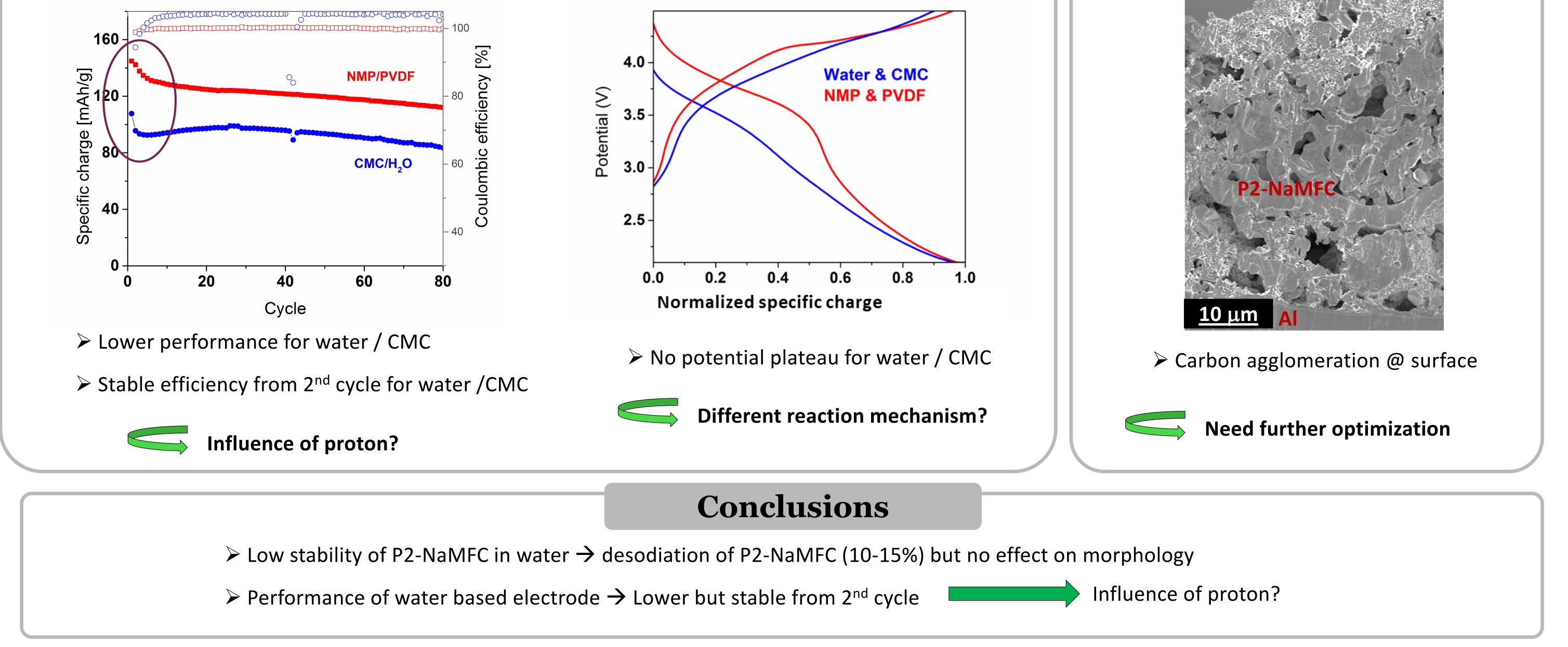




✓ Performance at C/10

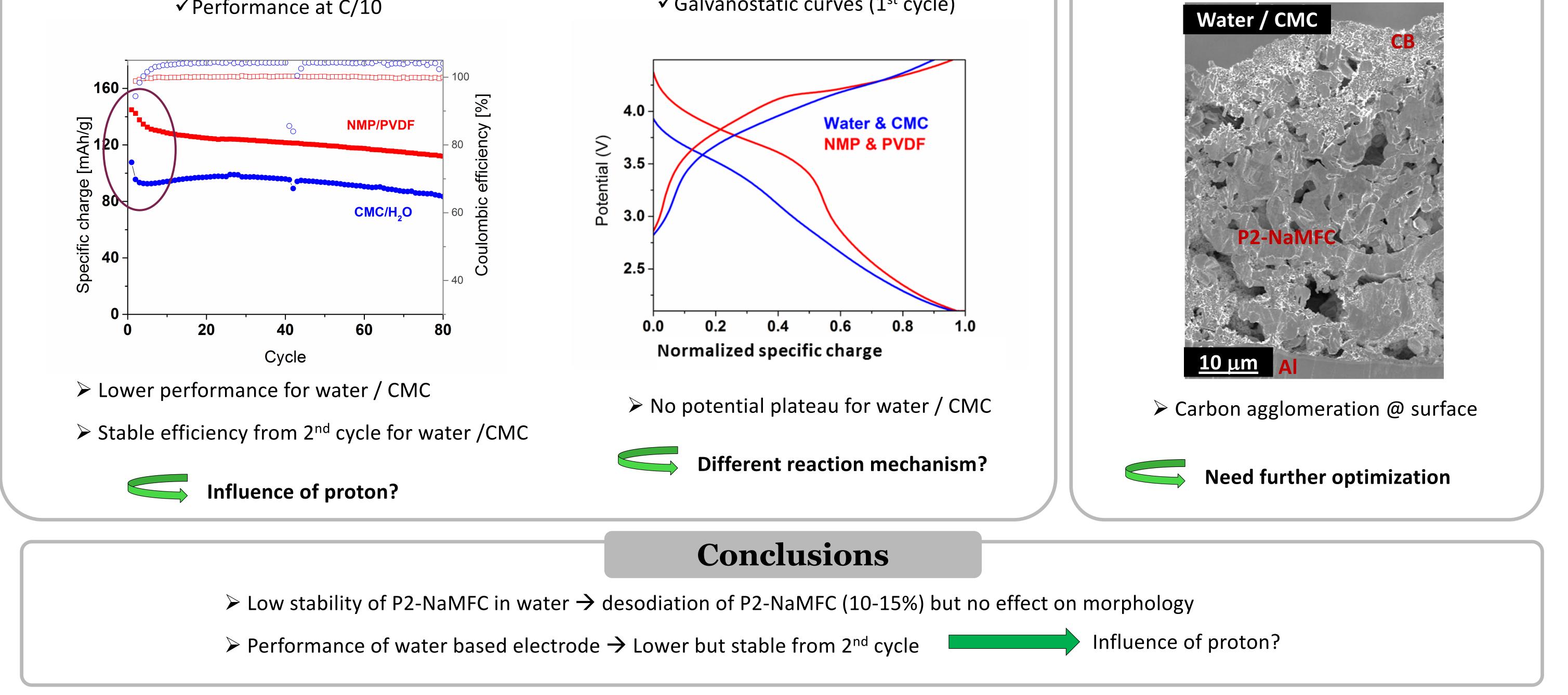
✓ Galvanostatic curves (1<sup>st</sup> cycle)





Cracks with water/CMC

✓ SEM cross section view of water based electrode





This work is financially supported by the SCCER Heat and Electricity Storage.



