

## Electronic Supplementary Information

### Rational use and reuse of Nafion 212 membrane in vanadium flow batteries

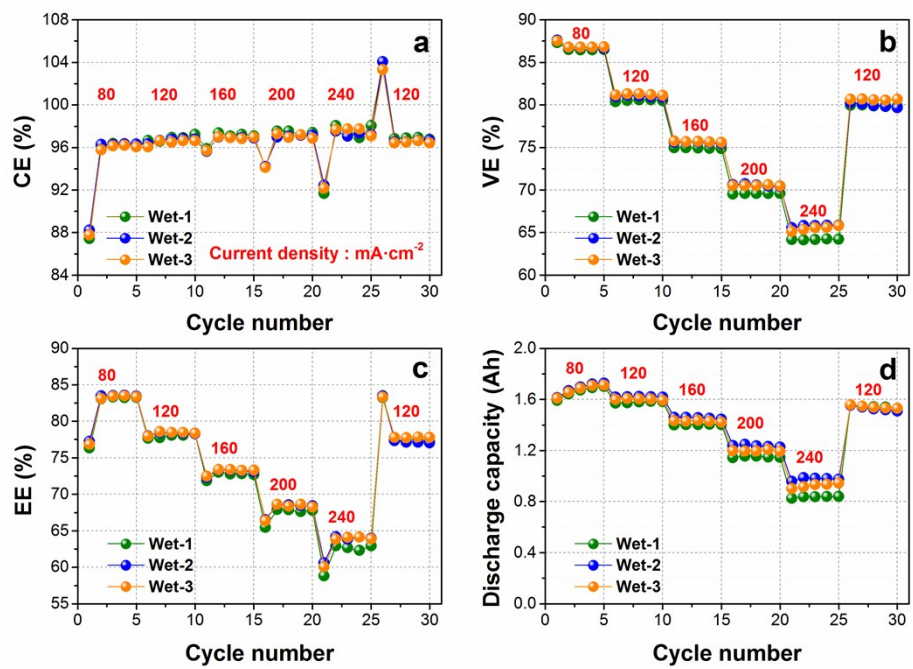
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**Fig. S1.** Rate performances of three parallel wet N212: (a) CE, (b) VE, (c) EE, and (d) discharge capacity.

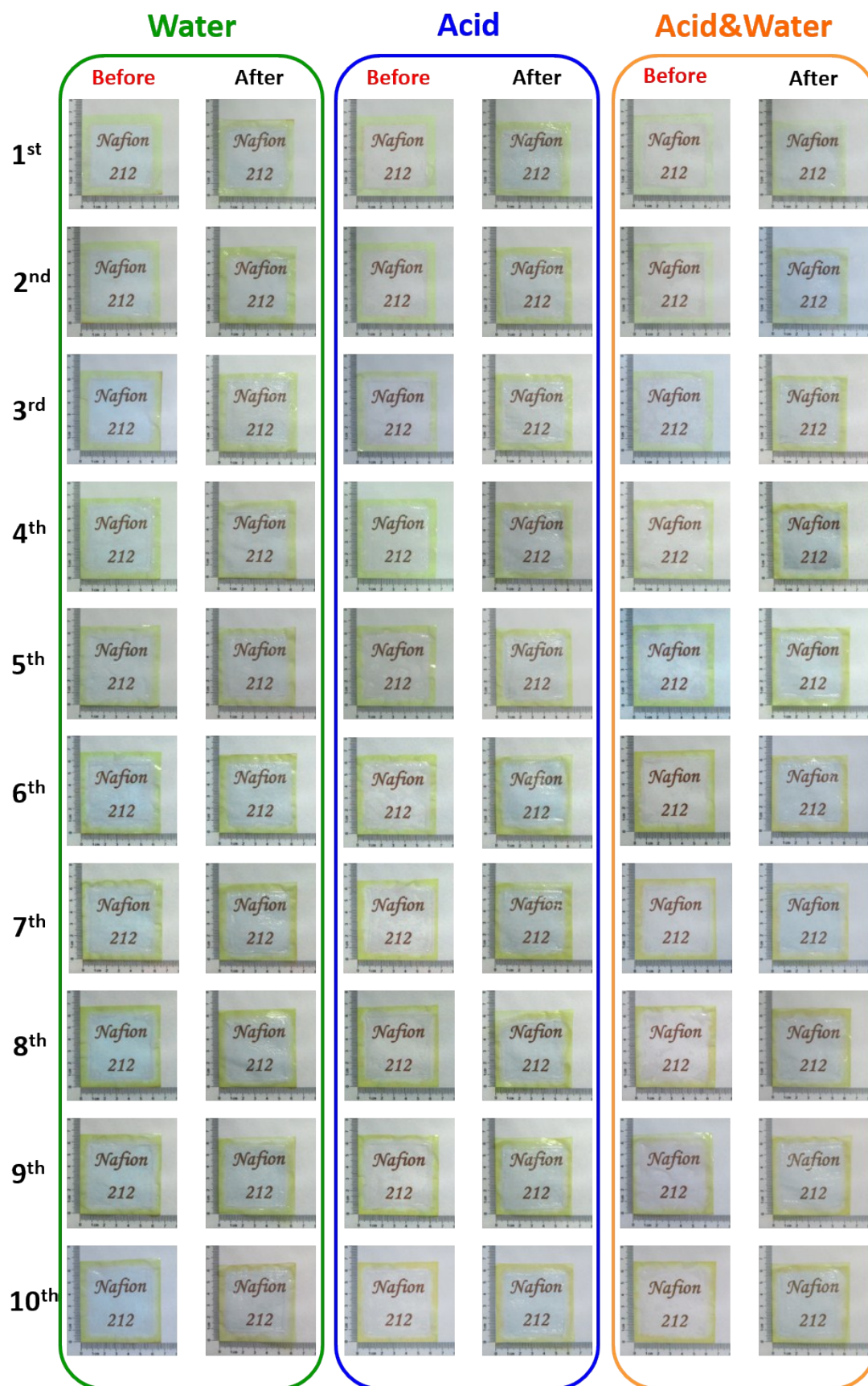
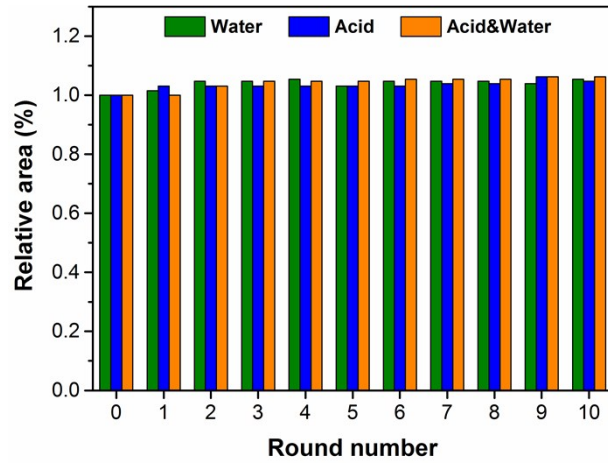
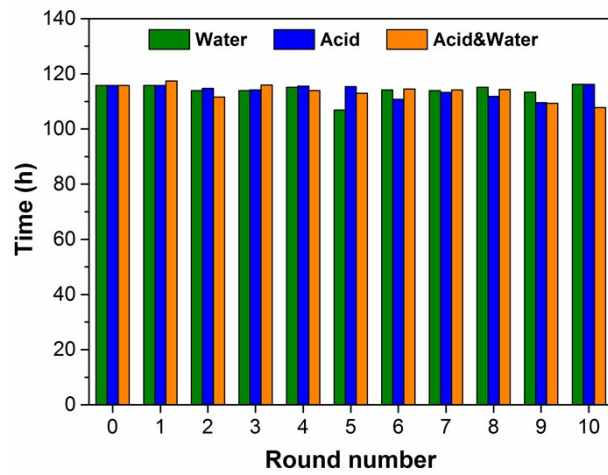


Fig. S2. Digital photos of N212 under various recover methods in ten rounds of repeated using.



**Fig. S3.** The dimensional stability of N212 during ten rounds of testing. Round number 0 corresponds to the fresh wet N212.



**Fig. S4.** Running time of used N212 in ten rounds of testing. Round number 0 corresponds to the fresh wet N212.