Supporting Information

Effect of Chelator Content on $Na_3V_2(PO_4)_2F_3$ Structural and Electrochemical Performance by Sol-gel Preparation

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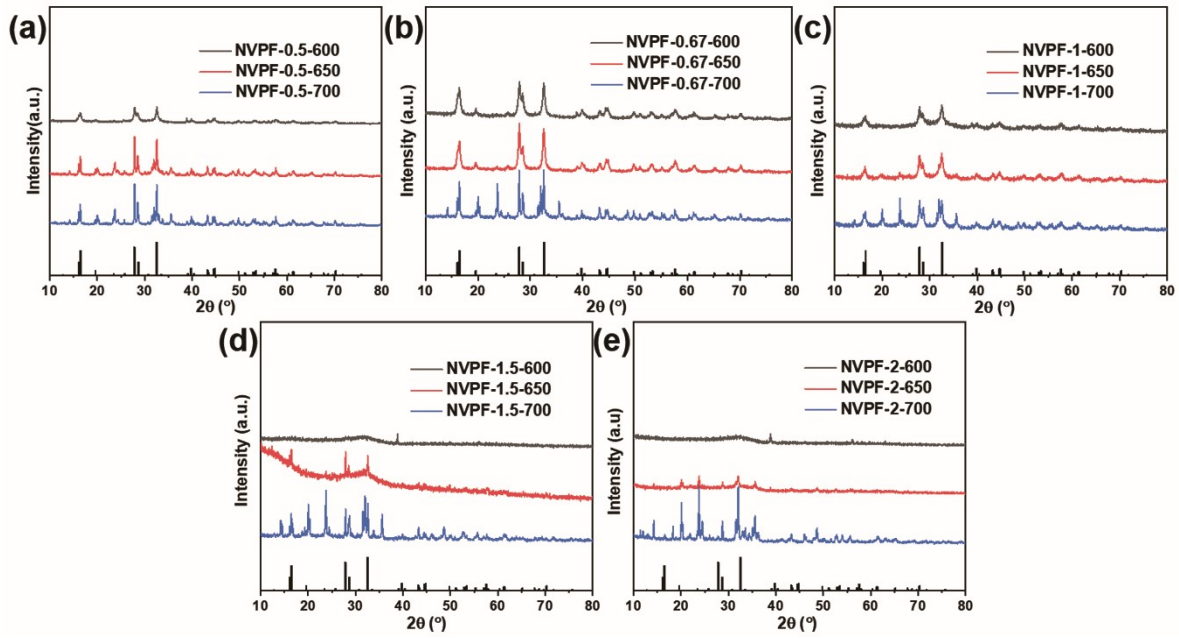
Supplementary Figure 1.

Figure S1 Color changes of the as-prepared gel precursors.

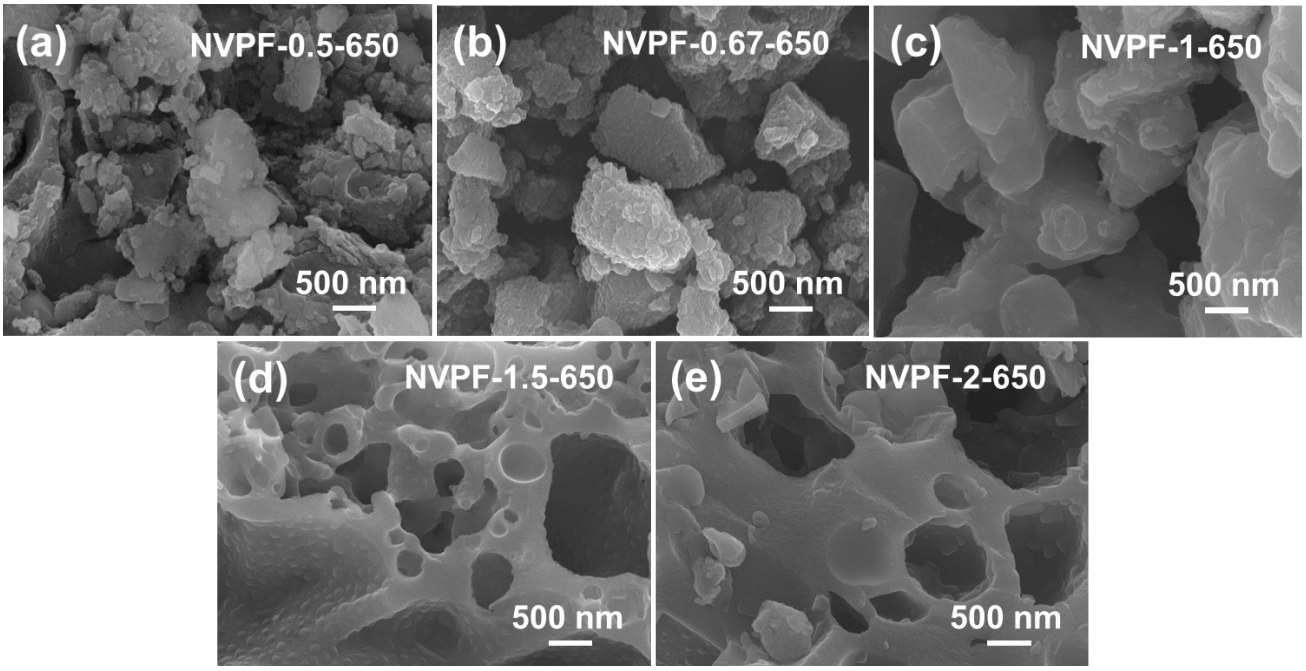
Supplementary Figure 2.

Figure S2 XRD patterns (a)-(e) of NVPF samples obtained at 600, 650 and 700 ºC with various critic acid content.



Supplementary Figure 3.

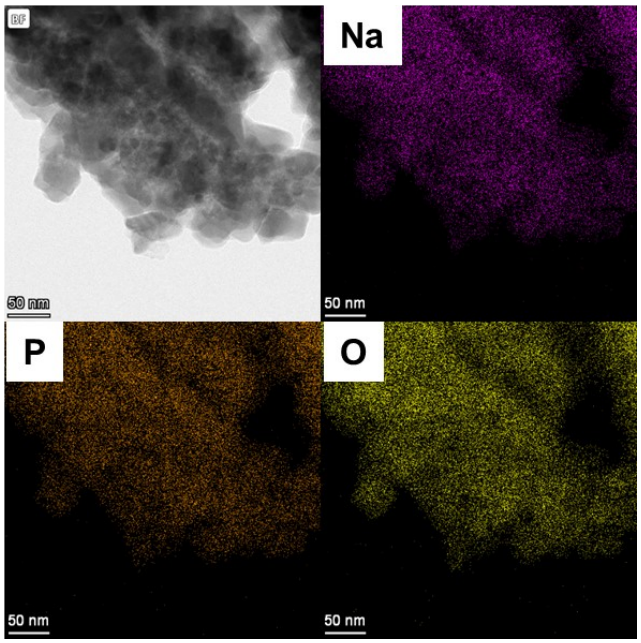
Figure S3 SEM images (a)-(e) of NVPF samples obtained at 650 ºC.



The NVPF was prepared by a general sol-gel method at 650 ºC in Ar atmosphere. Figure S2 show SEM images of the obtained NVPF samples, confirming the NVPF particles is composed by the primary nanograins and shows a gradual gelation trend with the increasing critic acid content.

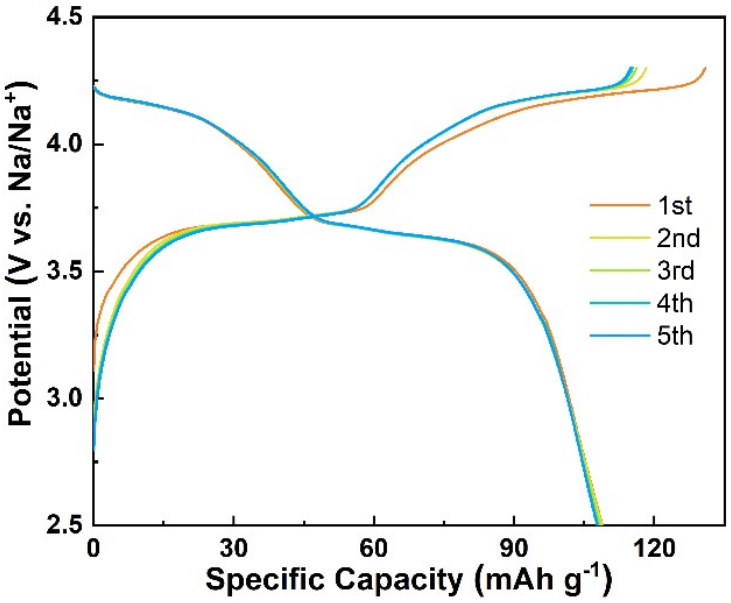
Supplementary Figure 4.

Figure S4 The TEM-EDS (Na, P and O) analysis of NVPF-0.67-650.



Supplementary Figure 5.

Figure S5 The first 5 charge and discharge curves of NVPF-0.67-650 at 0.2 C-rate.



Supplementary Figure 6.

Figure S6 SEM images of the various as-prepared NVPF-n (n=0.5, 0.67, 1, 1.5 and 2) electrodes (a-e) after 500 cycles at 5 C-rate.