

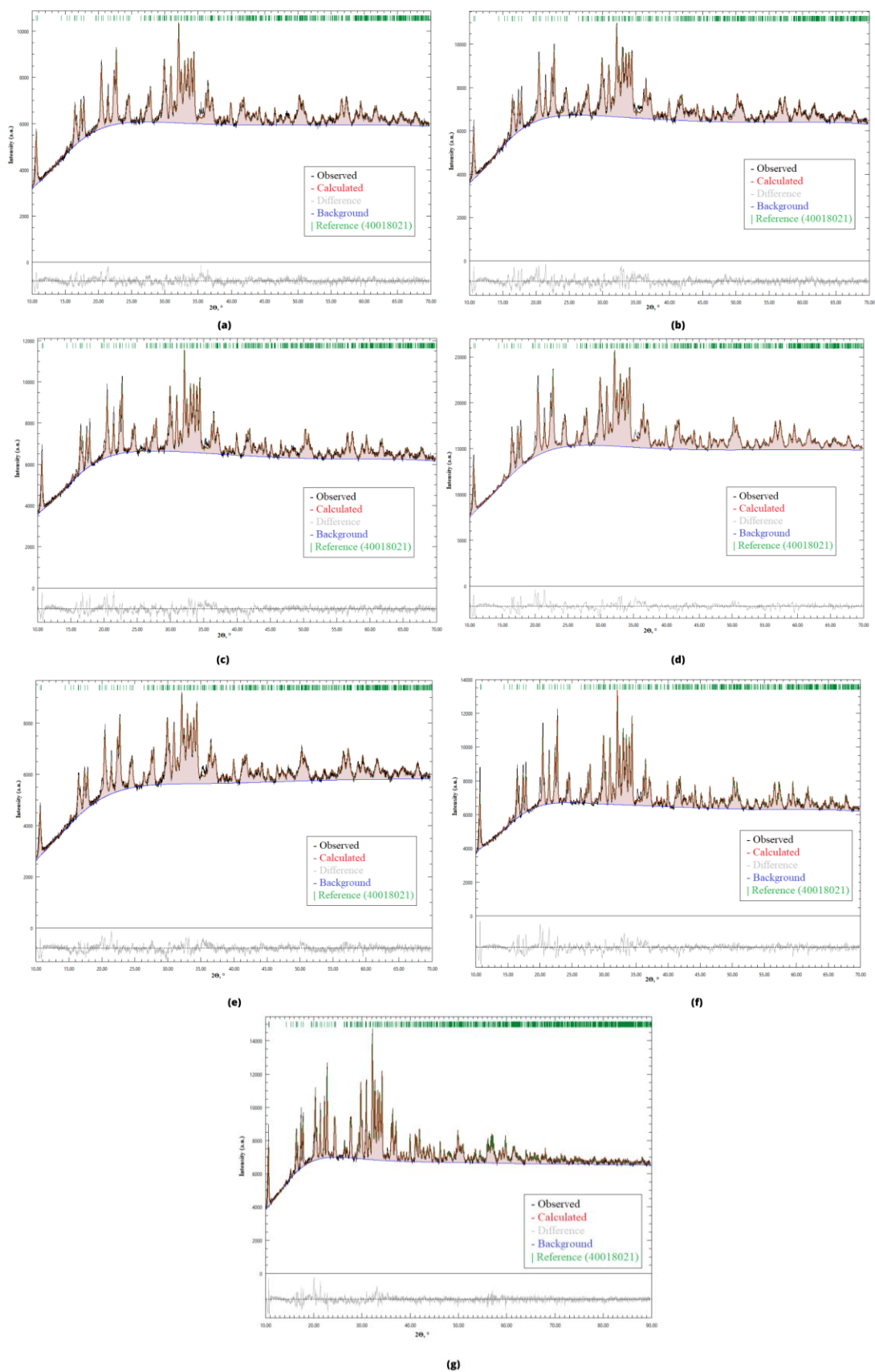
## Supplementary Materials

### The Impact of Graphene in Na<sub>2</sub>FeP<sub>2</sub>O<sub>7</sub>/C/Reduced Graphene Oxide Composite Cathode for Sodium-Ion batteries

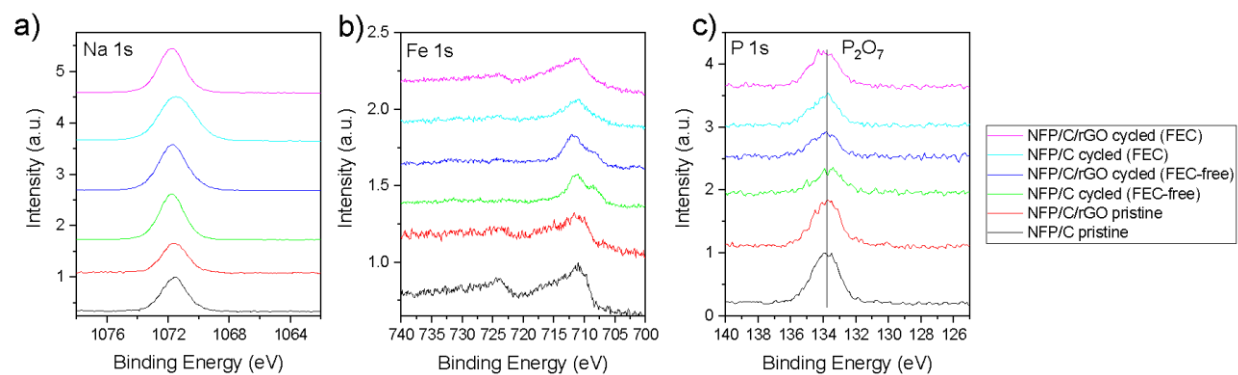
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**Table S1.** Results of the Rietveld refinement of NFP XRD data

	a, Å	b, Å	c, Å	$\alpha$ , °	$\beta$ , °	$\gamma$ , °	R <sub>p</sub> , %	R <sub>wp</sub> , %	R <sub>exp</sub> , %	$\chi^2$
NFP/C/rGO (2.5 wt.%)	6.4375(5)	9.4237(8)	11.0215(8)	64.420(4)	85.583(5)	72.800(5)	1.47	1.95	1.26	2.50
NFP/C/rGO (2.0 wt.%)	6.4353(7)	9.424(1)	11.017(1)	64.454(5)	85.648(7)	72.832(6)	1.63	2.21	1.21	3.34
NFP/C/rGO (1.5 wt.%)	6.4322(5)	9.4225(7)	11.0214(8)	64.382(4)	85.598(5)	72.850(4)	1.62	2.21	1.22	3.28
NFP/C/rGO (0.5 wt.%)	6.4359(8)	9.423(1)	11.022(1)	64.417(6)	85.632(8)	72.849(7)	1.43	2.05	0.79	6.73
NFP/C	6.4353(6)	9.4278(9)	11.0172(1)	64.438(5)	85.665(6)	72.874(5)	1.54	2.07	1.30	2.54
NFP/rGO (2.5 wt.%)	6.4330(4)	9.4158(5)	11.0188(6)	64.433(3)	85.649(4)	72.837(3)	1.95	2.82	1.21	5.43
NFP	6.4449(3)	9.4713(4)	10.9963(4)	64.835(2)	86.250(3)	73.177(3)	1.51	2.19	1.19	3.39



**Figure S1.** Rietveld refinement of the XRD patterns of (a) NFP/C/rGO (2.5 wt.%), (b) NFP/C/rGO (2.0 wt.%), (c) NFP/C/rGO (1.5 wt.%), (d) NFP/C/rGO (0.5 wt.%), (e) NFP/C, (f) NFP/rGO (2.5 wt.%), (g) NFP



**Figure S2.** XPS spectra of fresh NFP/C and NFP/C/rGO electrodes as well as electrodes cycled in FEC-free and 5 wt.% FEC-containing 1 M NaClO<sub>4</sub> (PC) electrolyte: (a) Na 1s, (b) Fe 1s and (c) P 1s.