

Table 1

Sample	a/a'	b/b'	c/c'
750°C	83 mV	87 mV	124 mV
800°C	104 mV	98 mV	146 mV
850°C	113 mV	110 mV	165 mV

Table S2

Reference	Type of materials	Potential range	Specific rate capacity	Capacity Retention
This work	LVP/C	3.0-4.3V	118.9 mAh g ⁻¹ at 10C	95.7% after 100 cycles at 10C
¹	LVP/polyaniline	3.0-4.3V	101.5 mAh g ⁻¹ at 10C	97.1% for each 10 cycles at 5C
²	LVP/C mesoporous nanowires	3.0-4.3V	117 mAh g ⁻¹ at 10C	80.0% after 3000 cycles at 5C
³	LVP-Graphene	3.0-4.3V	113.2 mAh g ⁻¹ at 2C	89.5% after 500 cycles at 30C
⁴	LVP/C	3.0-4.3V	52 mAh g ⁻¹ at 30C	
⁵	LVP/S-doping carbon	3.0-4.3V	118.5 mAh g ⁻¹ at 10C	93.76% after 300 cycles at 10C

1. H. Yan, W. Chen, X. Wu and Y. Li, *Electrochim. Acta*, 2014, 146, 295-300.
2. Q. Wei, Q. An, D. Chen, L. Mai, S. Chen, Y. Zhao, K. M. Hercule, L. Xu, A. Minhas-Khan and Q. Zhang, *Nano Lett.*, 2014, 14, 1042-1048.
3. M. Yang, M. Ren, W. Zhu, W. Liu and C. Zhu, *Electrochim. Acta*, 2015, 182, 1046-1052.
4. Y. Wu, X. Zhao, Z. Song, L. Lin, C. Du and Z. Tang, *J. Power Sources*, 2015, 274, 782-790.
5. C. Wang, Z. Guo, W. Shen, A. Zhang, Q. Xu, H. Liu and Y. Wang, *J. Mater. Chem. A*, 2015, 3, 6064-6072.