

Electronic Supplementary Information

Facile synthesis of nickel vanadate/Ni composite and its electrochemical performance as anode for lithium ion batteries

Yang Li^a, Ling-Bin Kong^{a,b,*}, Mao-Cheng Liu^{a,b}, and Long Kang^{a,b}

^a *State Key Laboratory of Advanced Processing and Recycling of Non-ferrous Metals,*

Lanzhou University of Technology, Lanzhou 730050, P. R. China

^b *School of Materials Science and Engineering, Lanzhou University of Technology, Lanzhou*

730050, P. R. China

* Corresponding author. Tel.: +86-931-2976579, Fax: +86-931-2976578,

E-mail: konglb@lut.cn

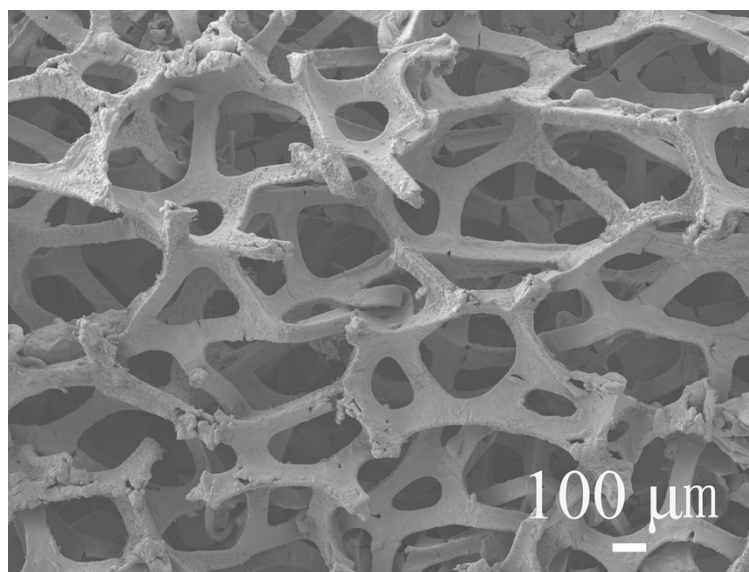


Fig. S1 SEM pattern of $\text{Ni}_3\text{V}_2\text{O}_8/\text{Ni}$ composites with low magnification.

Table S1 Quantitative analysis of Ni and V contents of the samples by ICP-MS.

Samples	Ni %	V %	Ni/V mole ratio
$\text{Ni}_3\text{V}_2\text{O}_8$	59.4	38.6	1.54:1

Table S2 Impedance parameters calculated from equivalent circuit model.

	$\text{Ni}_3\text{V}_2\text{O}_8$ powders (Fresh electrode)	$\text{Ni}_3\text{V}_2\text{O}_8/\text{Ni}$ (Fresh electrode)	$\text{Ni}_3\text{V}_2\text{O}_8/\text{Ni}$ (5 th)	$\text{Ni}_3\text{V}_2\text{O}_8/\text{Ni}$ (100 th)
Rs (Ω)	5.2	3.4	7.1	11.7
Rct (Ω)	94.1	60.4	29.3	28.9