

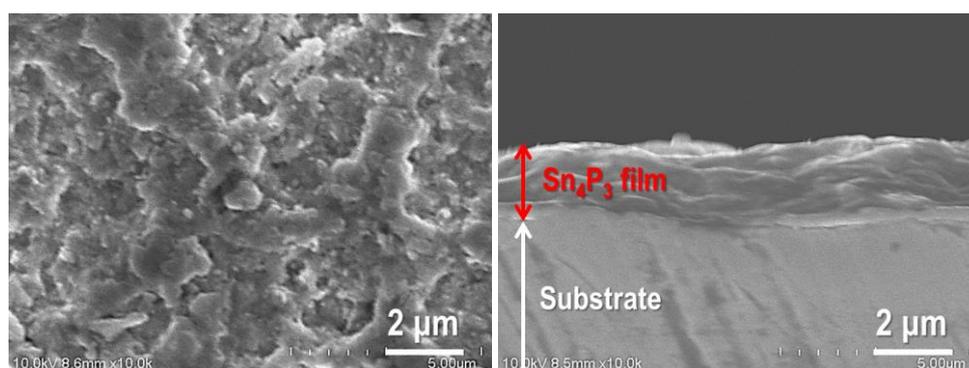
Characterization of Sn_4P_3 -Carbon Composite Films for Lithium-Ion Battery Anode Fabricated by Aerosol Deposition

Toki Moritaka ¹, Yuh Yamashita ¹, Tomohiro Tojo ², Ryoji Inada ^{1,*} and Yoji Sakurai ¹

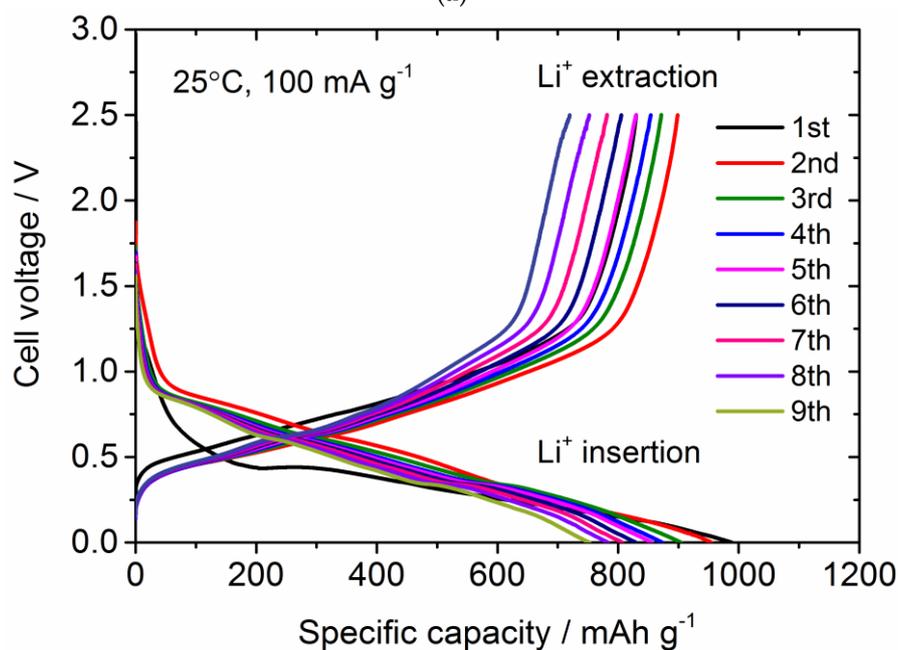
¹ Department of Electrical and Electronic Information Engineering, Toyohashi University of Technology, 1-1 Tempaku-cho, Toyohashi, Aichi 4418580, Japan

² Department of Electrical and Electronic Engineering, Shizuoka Institute of Science and Technology, 2200-2 Toyosawa, Fukuroi, Shizuoka 437-8555, Japan

* Correspondence: inada@ee.tut.ac.jp; Tel.: +81-532-446723

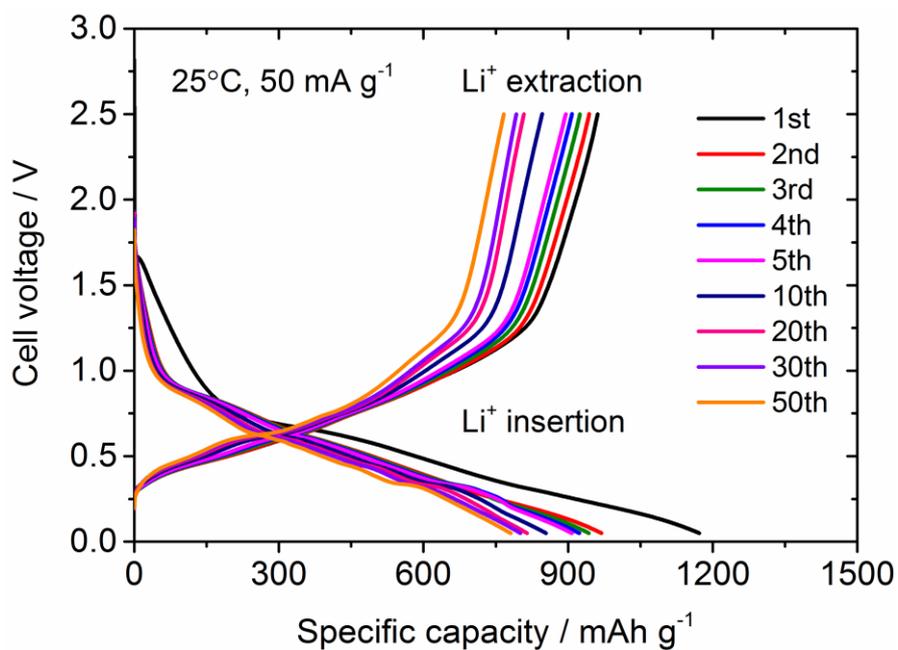


(a)

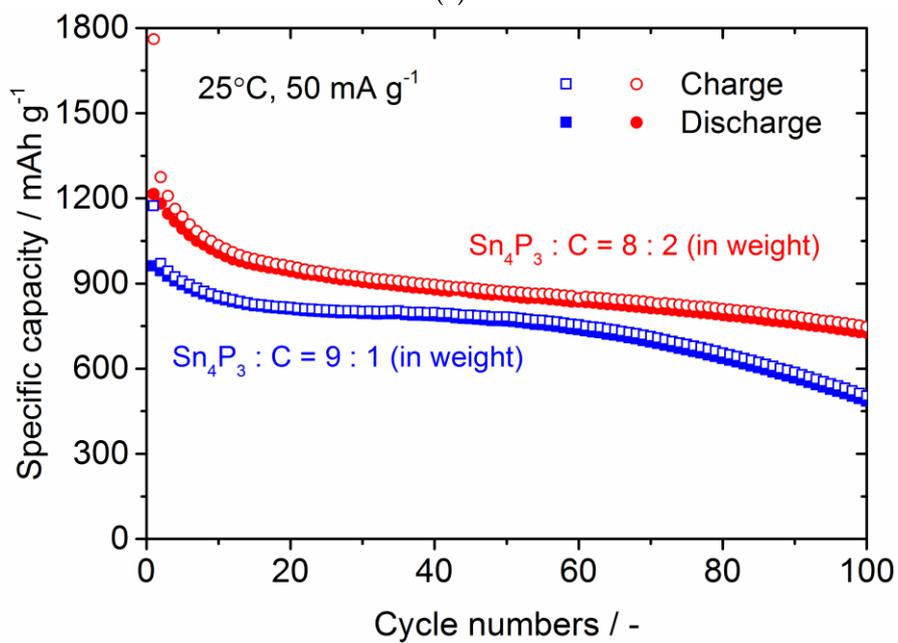


(b)

Figure S1. (a) SEM image of broader surface (left) and transverse cross section (right) of the Sn_4P_3 film fabricated by AD and (b) Galvanostatic charge and discharge curves for the Sn_4P_3 film.



(a)



(b)

Figure S2. (a) Galvanostatic charge and discharge curves for the $\text{Sn}_4\text{P}_3/\text{C}$ composite film ($\text{Sn}_4\text{P}_3:\text{AB} = 9:1$ in weight) and (b) Comparison of cycling stability for $\text{Sn}_4\text{P}_3/\text{C}$ composite films with different carbon content.