Reviewer 1:

1. Line 77 to 96: The introductory part of the simulation needs to be structured to understand the importance of the contributions that other works have made. As written, it seems like a list of those who have done simulation without discussing why they do it or how those works contribute to this study.

The discussion of research status of simulation is added in Line 100 to 106, page 3.

Although many scholars have developed numerical models of electrodeposition, simplified one step electrochemical reaction is used in the above simulation. However, for the electrodepostion of ternary Fe-Co-Ni alloys, the reaction process is an irreversible two-step manner. In addition, the side reactions of hydrogen evolution and water dissociation have important influences on the properties of deposits. To the best of our knowledge, there is no specific simulation study of Fe-Co-Ni ternary alloy deposition.

2. Change the letter “L” to “l” in Figure 1 at the word “Electrochemical cell.”

The misspelling in Fig. 1 is corrected.

3. Clarify in section 2.1 the electrodeposition methodology since it is confusing when showing a diagram as a function of the potential when the treatments are galvanostatic as implied in the results, redo figure 2. Placing how you made those different states identifies the current density values used.

Fig. 2 is redrawn, and the current density value is given in Line 140 to 141, page 4.

In this study, we adjusted only the high current stage to investigate the influence of the current density. The applied current density in high current stage is 5 A/dm^2, 10 A/dm^2, 15 A/dm^2, 20 A/dm^2, and 25 A/dm^2.

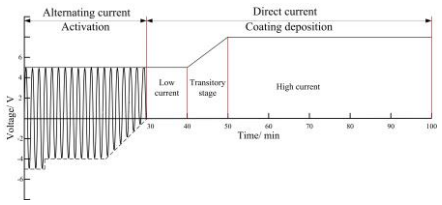


Figure 2. Diagram of electrical control parameter.

4. Pointing out what you want to show the reader in figure 6 in all sections 1 (a-1, b-1,..., e-1) is unclear.

Fig. 6 shows the influence of current density on the morphology of cross section and coating surface of ternary Fe-Co-Ni alloy coatings. This sentence is added in Line 270 to 271, page 10.