coatings

Supplementary Materials: Influence of Heat Treatment on the Corrosion Behavior of Electrodeposited CoCrFeMnNi High-Entropy Alloy Thin Films

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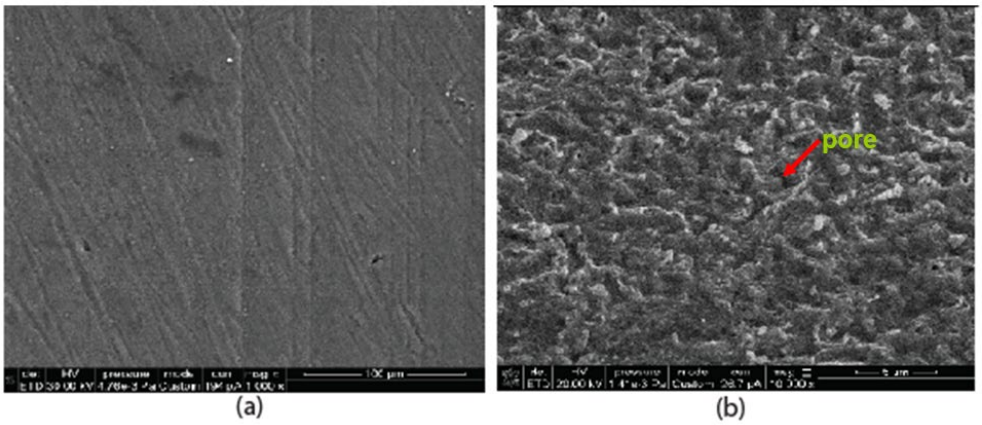

Figure S1. SEM morphology of the equimolar film CoCrFeMnNi electrodeposited and heat treated, sample 1HT: (**a**) ×1,000; (**b**) ×10,000.

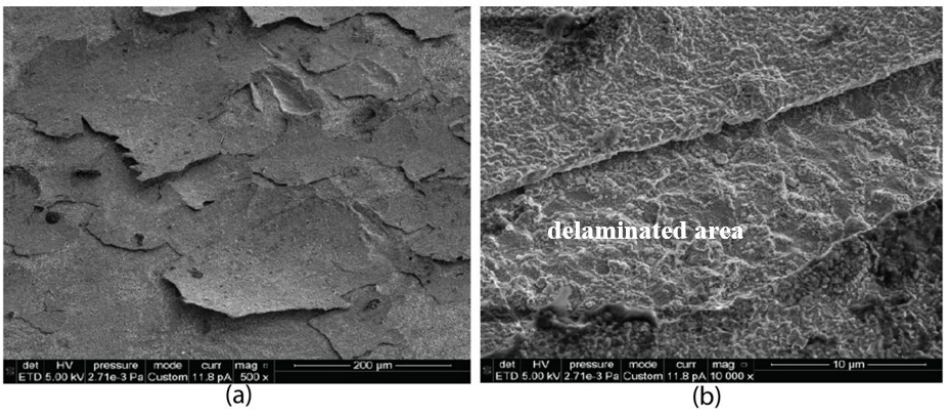

Figure S2. SEM morphology of the equimolar film CoCrFeMnNi sample 1HT corroded in artificial seawater: (**a**) ×1,000; (**b**) ×10,000.

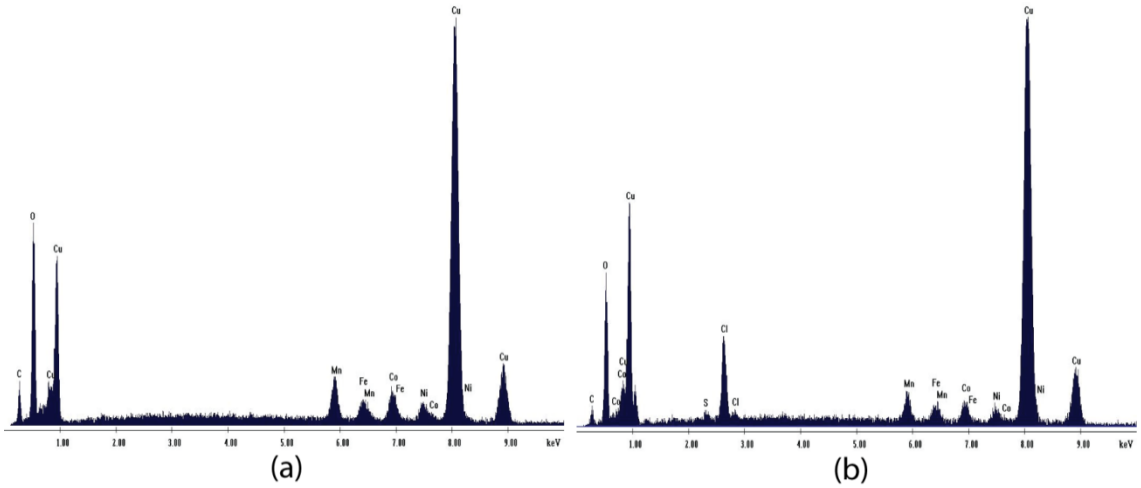

Figure S3. EDS spectra for the CoCrFeMnNi alloy, sample 1HT, in the initial stage (**a**) and after corrosion (**b**).

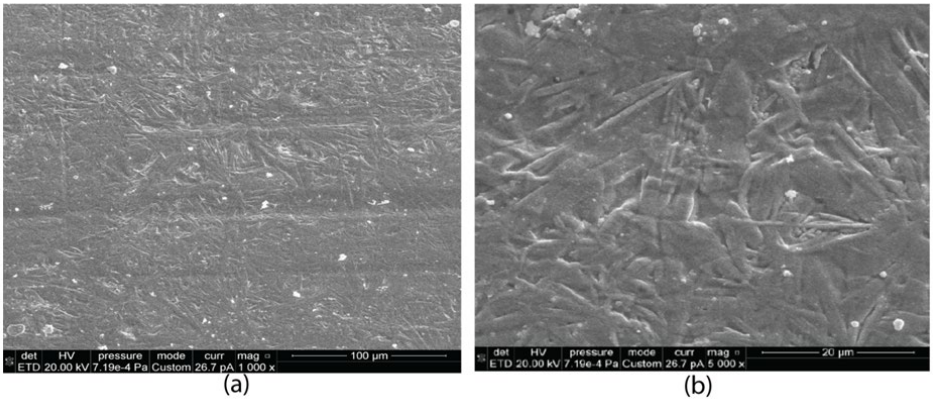

Figure S4. SEM morphology of the $Co_{0.12}Cr_{0.55}Fe_{0.11}Mn_{0.1}Ni_{0.12}$CoCrFeMnNi film, sample 2HT: (**a**) ×1,000; (**b**) ×5,000.

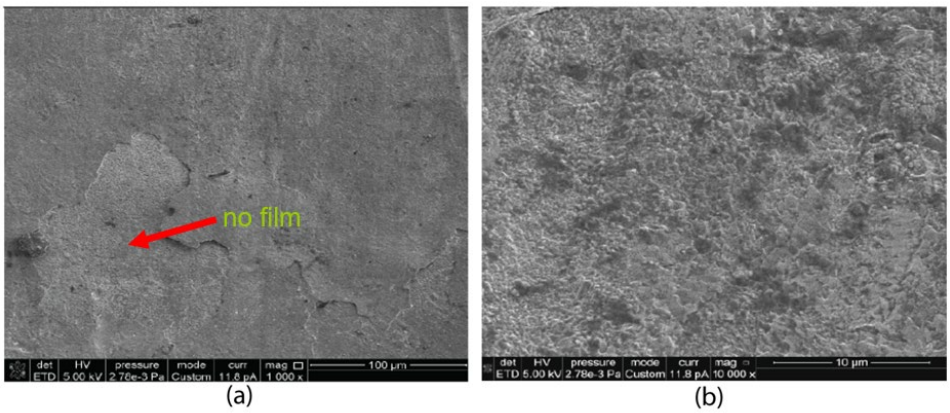

Figure S5. SEM morphology of the $Co_{0.12}Cr_{0.55}Fe_{0.11}Mn_{0.1}Ni_{0.12}$ film, sample 2HT(corroded): (**a**) ×1,000; (**b**) ×10,000.

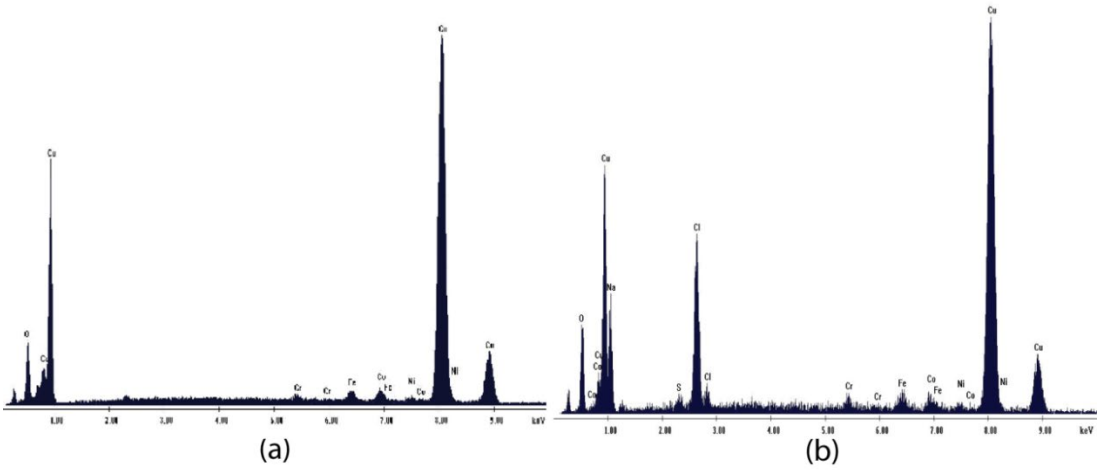

Figure S6. EDS spectra for of the $Co_{0.12}Cr_{0.55}Fe_{0.11}Mn_{0.1}Ni_{0.12}$ film , sample 2HT, in the initial stage (**a**) and after corrosion (**b**).

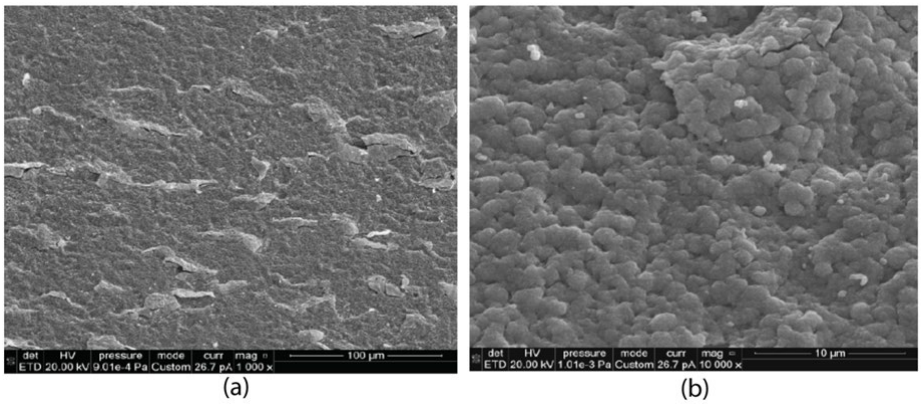

Figure S7. SEM morphology of the equimolar CoCrFeMnNi thin film, sample 3: (**a**) ×1,000; (**b**) ×10,000.

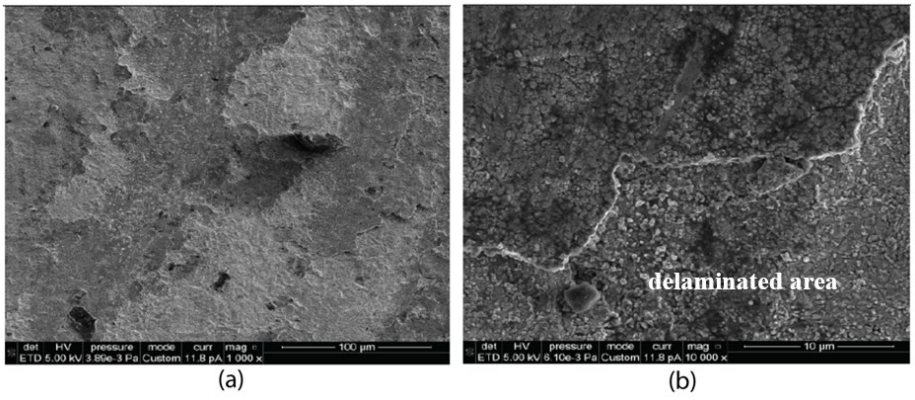

Figure S8. SEM morphology of the equimolar CoCrFeMnNi thin film, sample 3 (corroded): (**a**) ×1,000; (**b**) ×10,000.

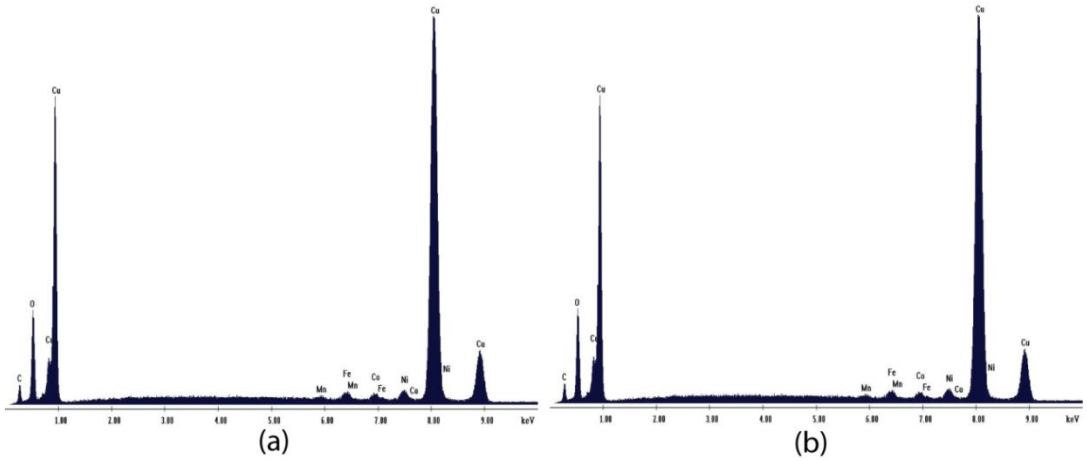

Figure S9. EDS spectra for the equimolar CoCrFeMnNi thin film, sample 3 in the initial stage (**a**) and after corrosion (**b**).