Supporting Information
Magnetochemistry and Asymmetric Electrochemical Reactions

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**Figure: S1** SEM images at **(a)** 5000x, **(b)** 10000x and **(c)** EDS spectrum recorded on, Ni-LTA layer deposited "without" magnetic field
**Figure: S2** SEM images at (a) 5000x, (b) 10000x and (c) EDS spectrum recorded on, Ni-LTA layer deposited by galvanostatic electrodeposition.

**Figure: S3** SEM images at (a) 1000x, (b) 5000x and (c) EDS spectrum recorded on, pure Ni layer deposited potentiostatic electrodeposition
**Figure: S4** SEM images at (a) 1000x, (b) 5000x and (c) EDS spectrum recorded on, pure Ni layer deposited by low current galvanostatic electrodeposition.

**Figure: S5** SEM images at (a) 1000x, (b) 5000x and (c) EDS spectrum recorded on, Ni-LTA layer deposited by potentiostatic electrodeposition.
Figure: S6 SEM images at (a) 5000x, (b) 10000x and (c) EDS spectrum recorded on, Ni-LTA layer deposited by low current galvanostatic electrodeposition.

Figure: S7 SEM images at (a) 5000x, (b) 10000x and (c) EDS spectrum recorded on, Ni-LTA layer deposited under “up” oriented magnetic field
Figure: S8 SEM images at (a) 5000x, (b) 10000x and (c) EDS spectrum recorded on, Ni-LTA layer deposited under “down” oriented magnetic field