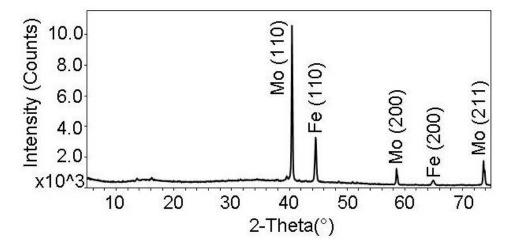
## **Supporting Information**



**Figure S1.** X-ray diffraction shows b.c.c.-Mo peaks from the as-deposited sample consisted of Mo-rich nanoparticle cores. The b.c.c.-Fe peaks are produced by a steel substrate.

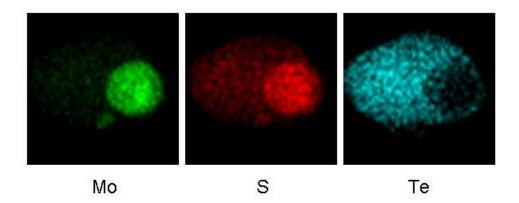


Figure S2. EDS elemental mapping for the nanoparticle as shown in figure 4.