Supplementary Materials:



Figure S1. Air-circulation chamber furnace (left), water injection device (top right) and sample pieces and powder in the chamber with thermocouples (bottom right).

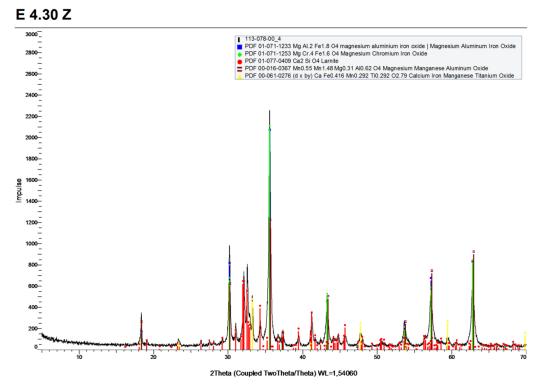


Figure S2. X-ray diffraction (XRD) pattern of the cycled powder made of sintered slag pebbles.

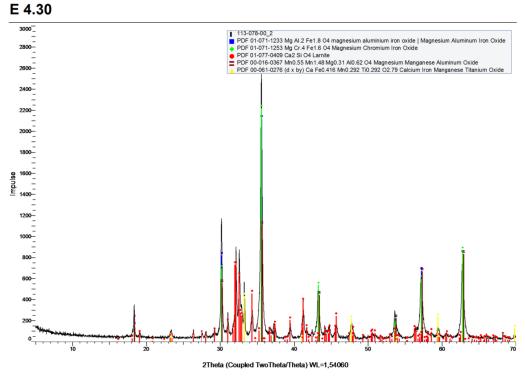


Figure S3. X-ray diffraction (XRD) pattern of the non-cycled powder made of sintered slag pebbles.

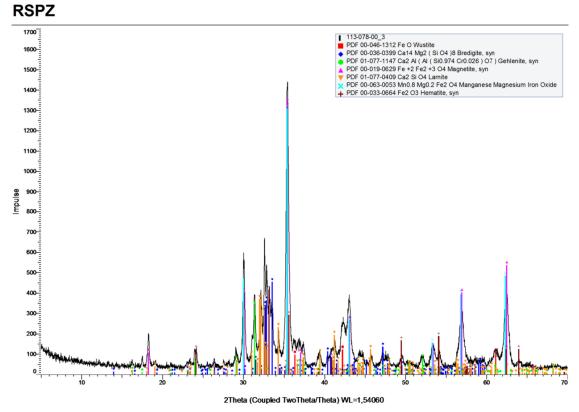


Figure S4. X-ray diffraction (XRD) pattern of the cycled powder made of raw slag.

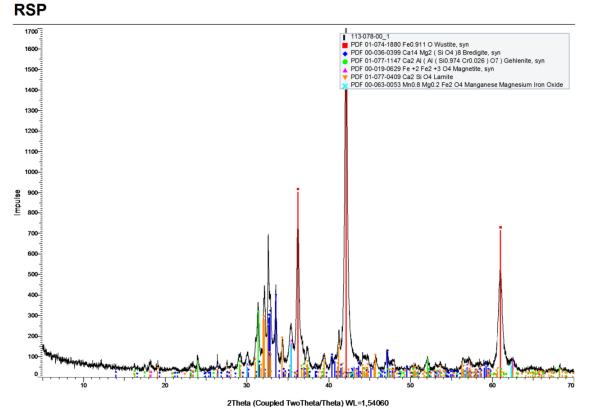


Figure S5. X-ray diffraction (XRD) pattern of the non-cycled powder made of raw slag.