

Supplementary

Study on Mineral Compositions of Direct Carbonated Steel Slag by QXRD, TG, FTIR, and XPS

Xue Wang ^{1,2}, Wen Ni ^{1,2,*}, Jiajie Li ^{1,2}, Siqi Zhang ^{1,2} and Keqing Li ^{1,2}

¹ School of Civil and Resource Engineering, University of Science and Technology Beijing, Beijing 100083, China; 18810613427@163.com (X.W.); jiajieli@ustb.edu.cn (J.L.); zsq2017@ustb.edu.cn (S.Z.); lkqing2003@163.com (K.L.)

² Key Laboratory of Resource-oriented Treatment of Industrial Pollutants, Beijing 100083, China

* Correspondence: niwen@ces.ustb.edu.cn

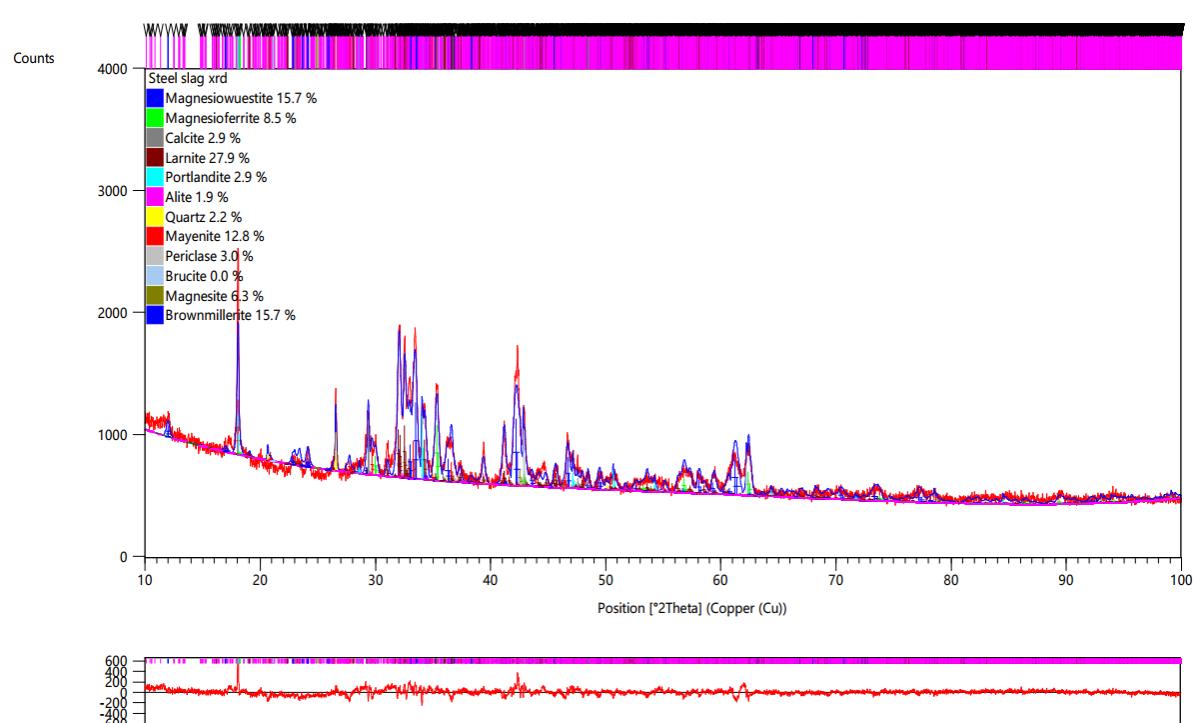
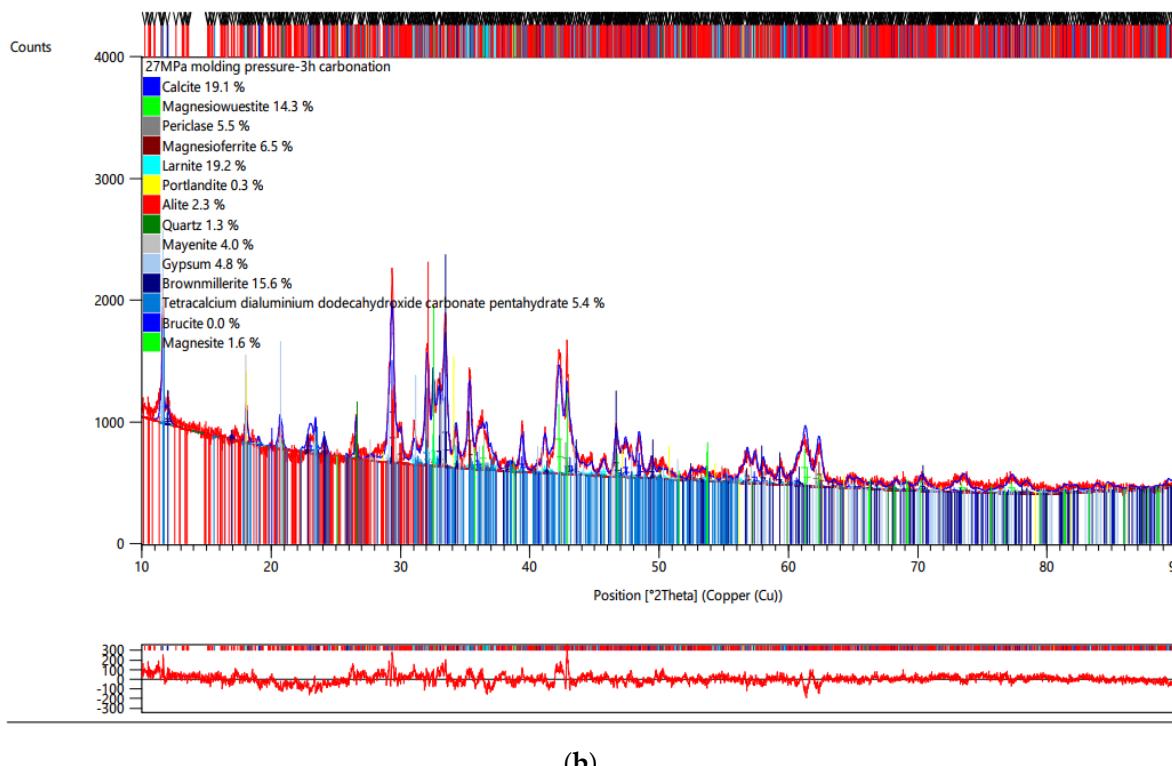
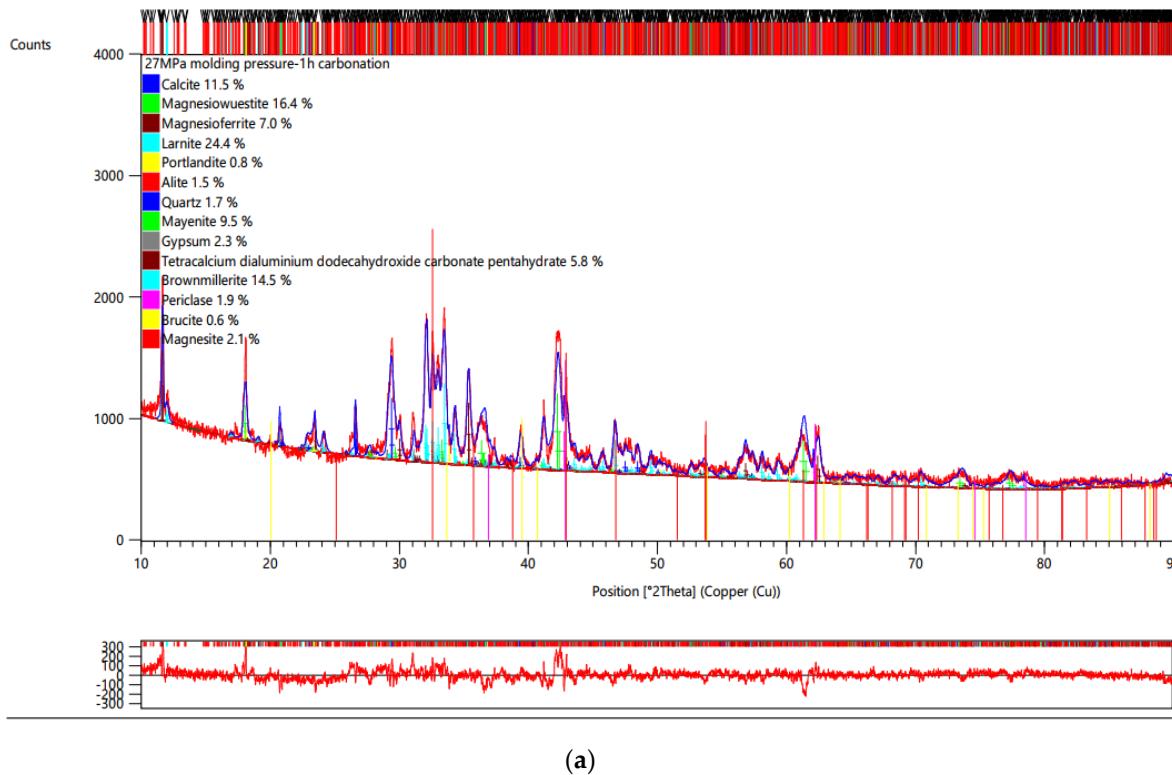
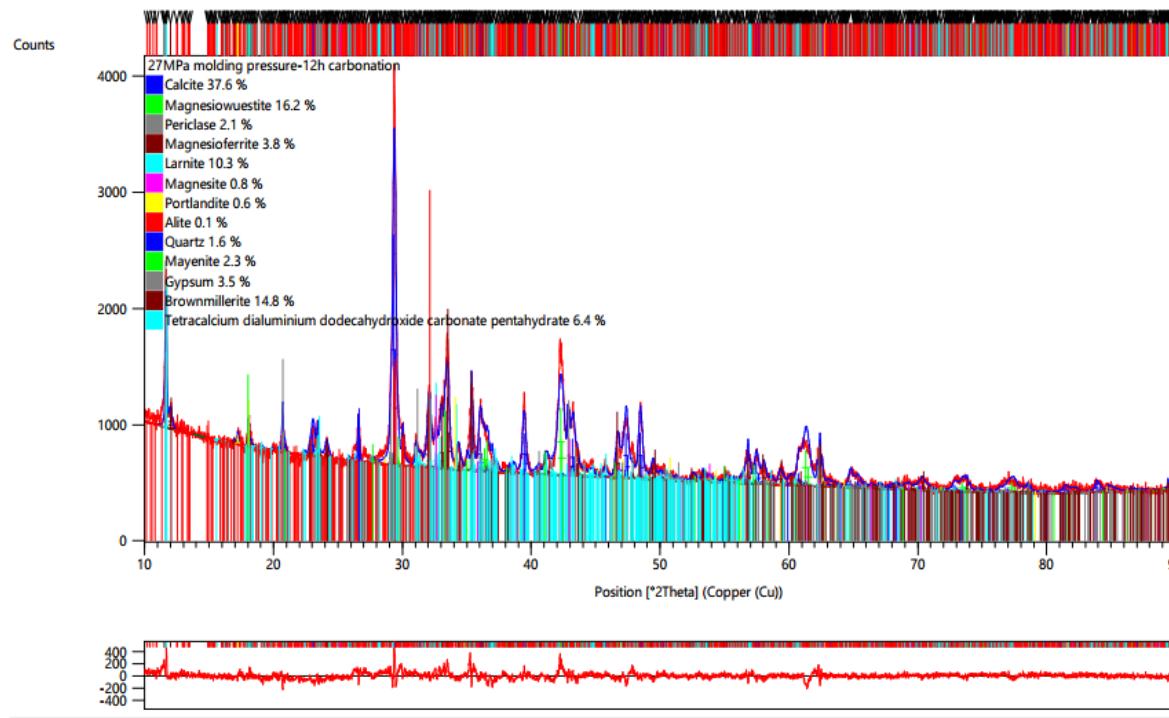
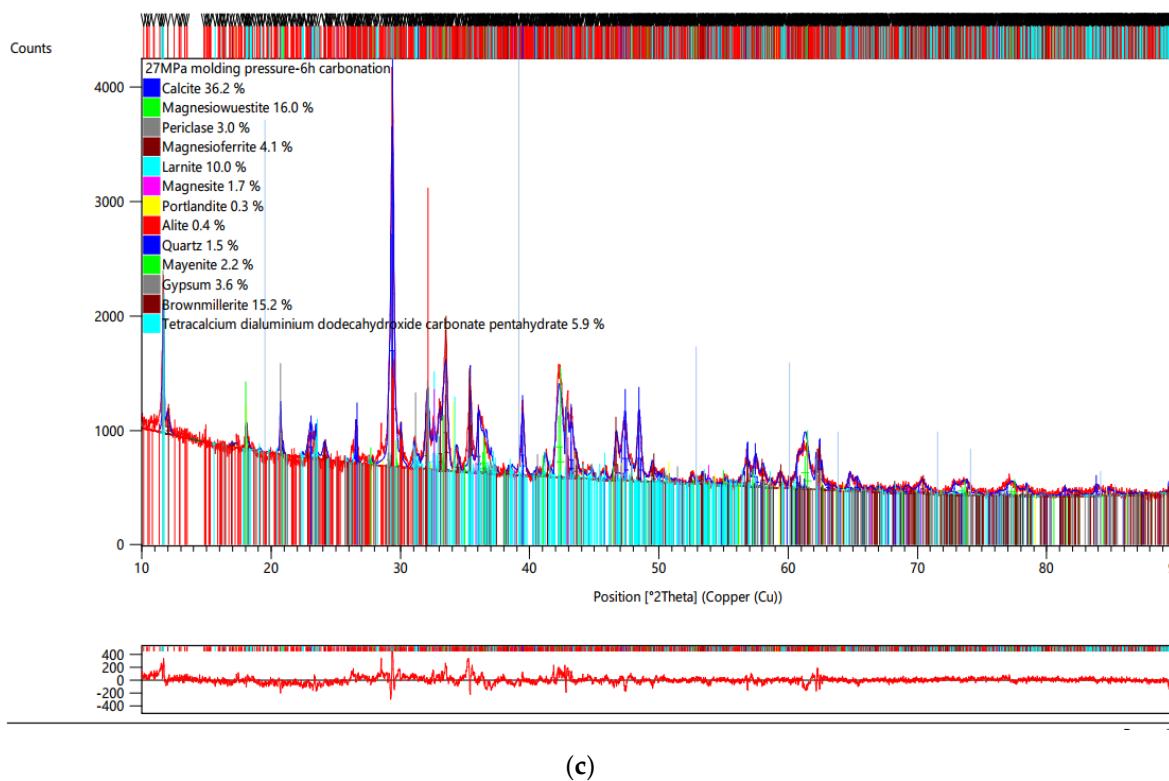


Figure S1. QXRD analysis result of steel slag.





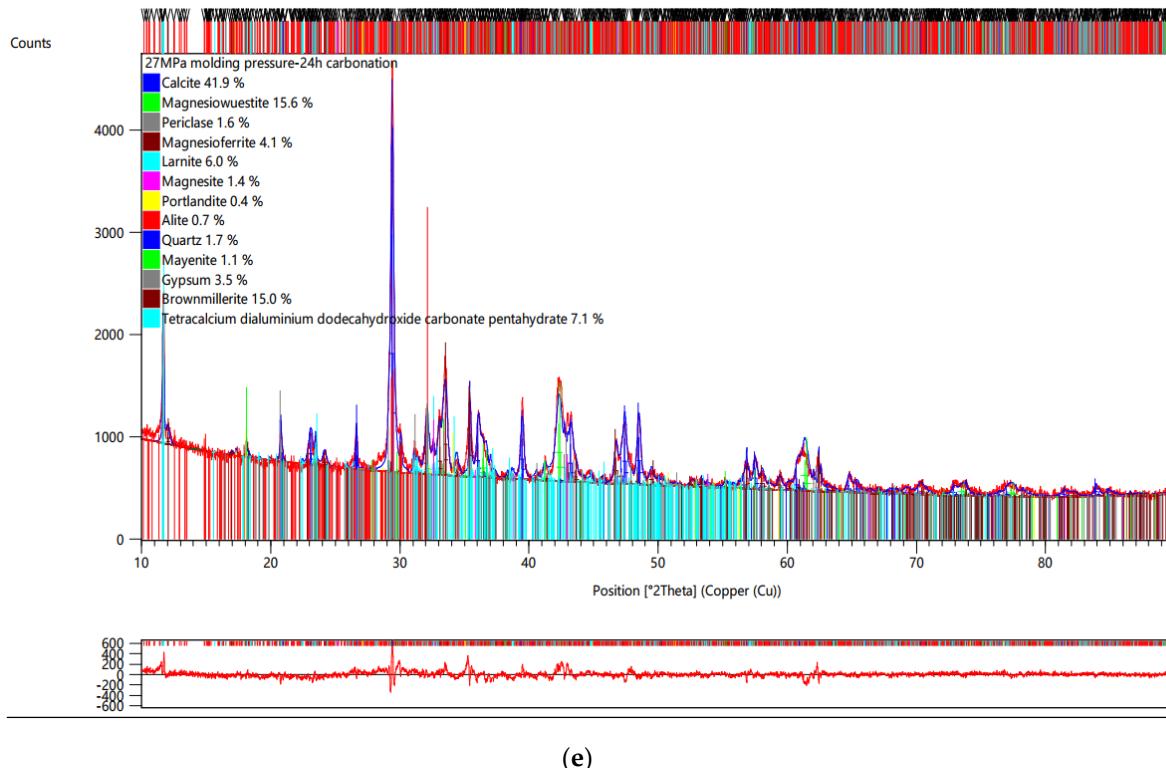
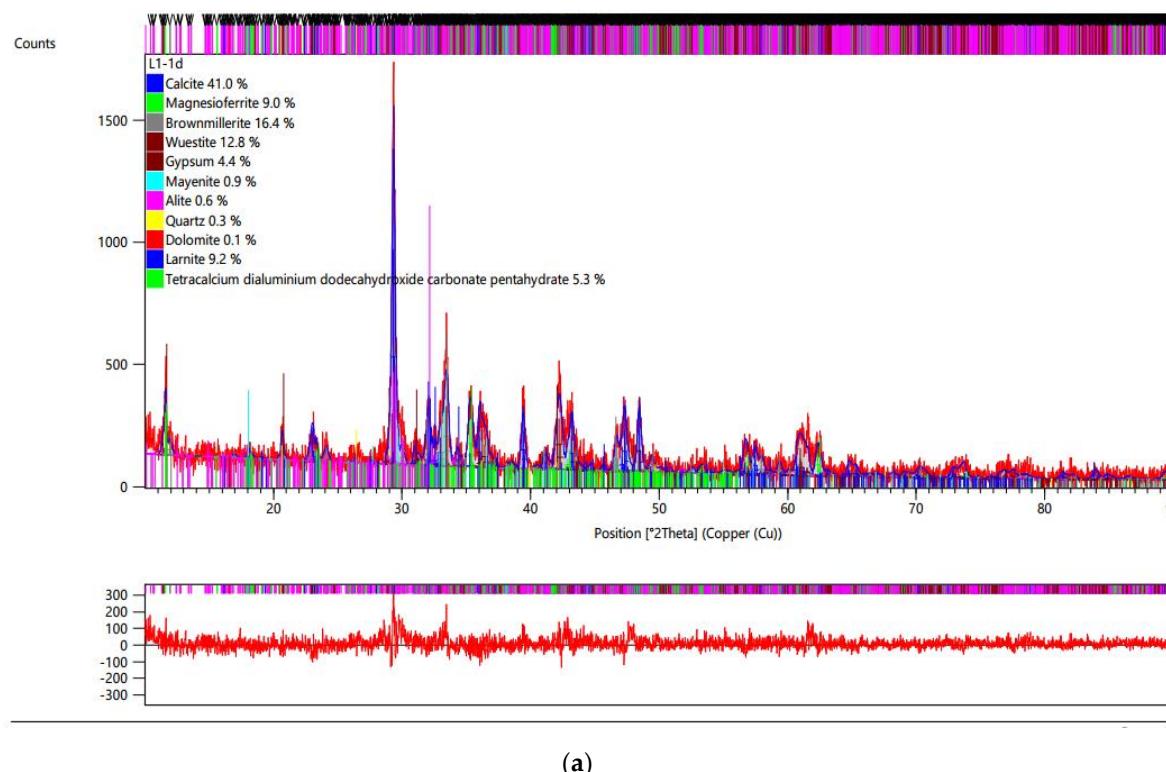
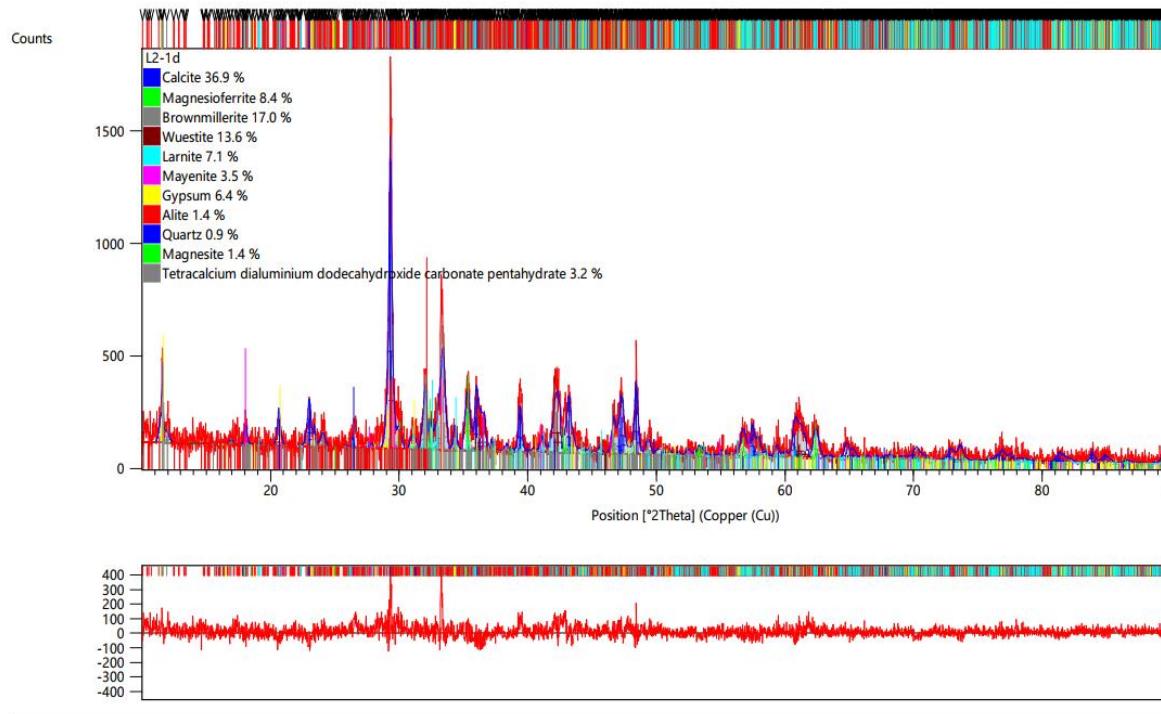
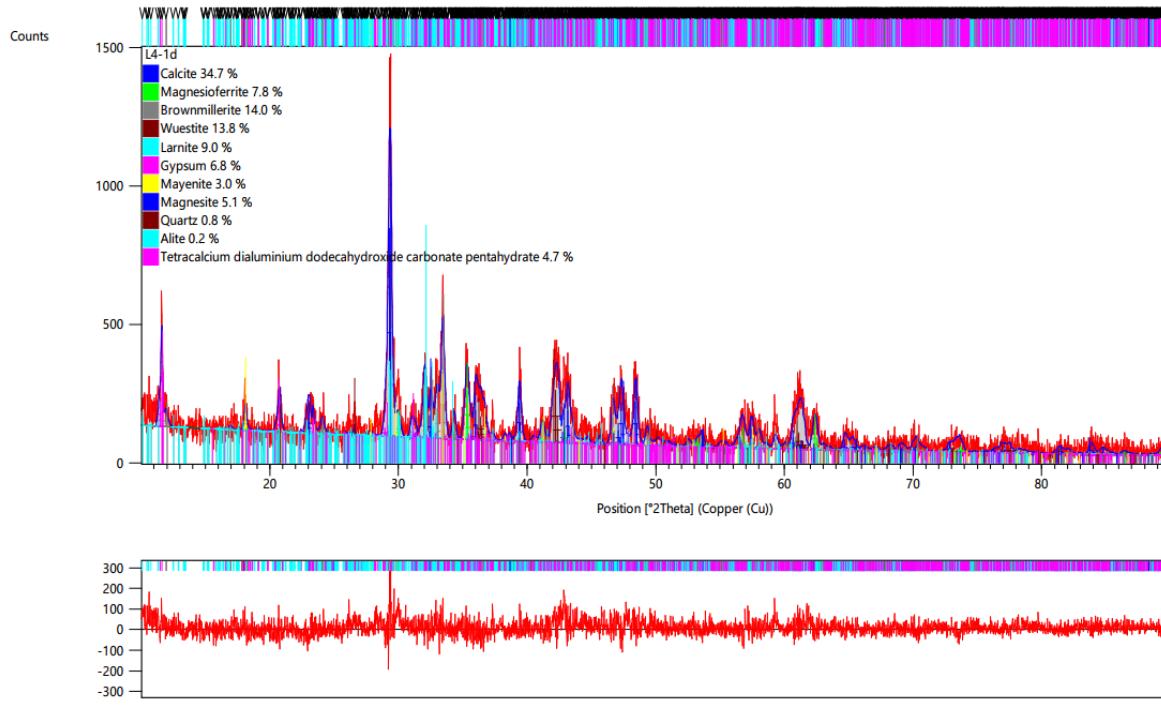


Figure S2. QXRD analysis results of steel slag after (a) 1 h, (b) 3 h, (c) 6 h, (d) 12 h, and (e) 24 h carbonation. (molding pressure: 27 MPa, G/SS: 1/16, w/s: 0.2).





(b)



(c)

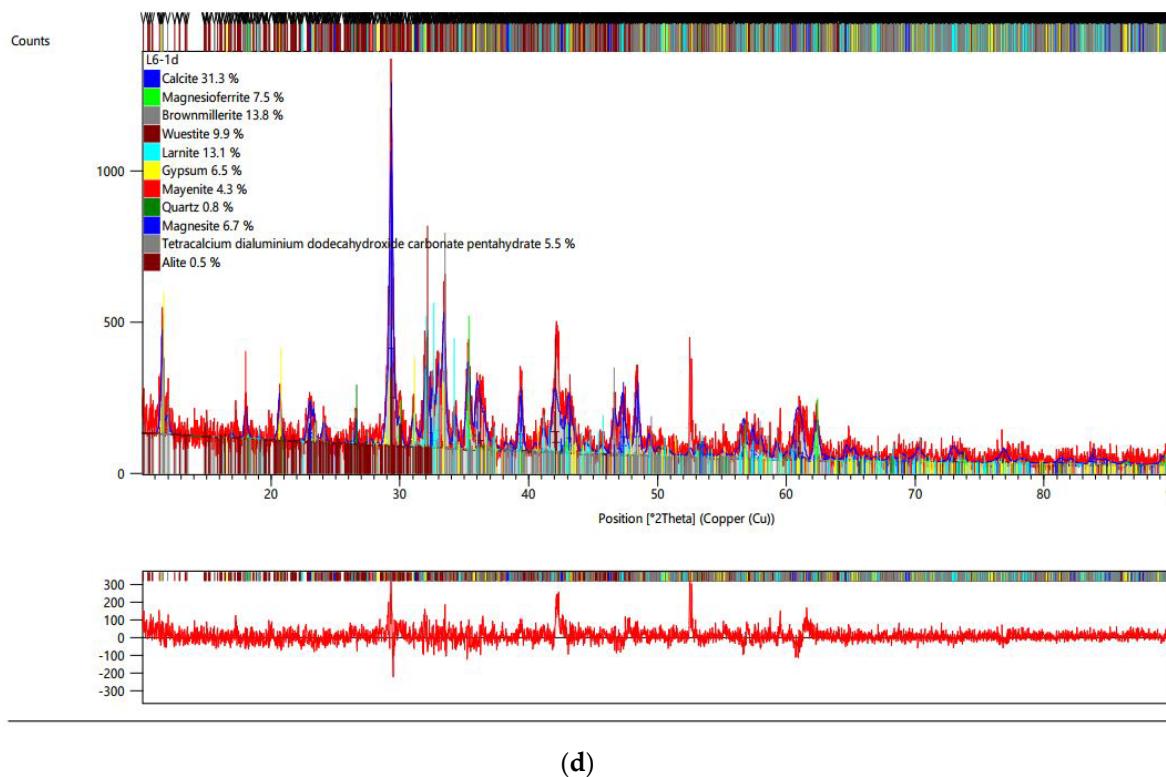


Figure S3. QXRD analysis results of steel slag with different w/s ratio of (a) 1/5, (b) 1/6, (c) 1/8, and (d) 1/10. (molding pressure: 9 MPa, G/SS: 1/16, carbonation duration: 1d).