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Supplementary information

Influence of magnetic field on dealloying of Al-25Ag alloy and formation of nanoporous Ag

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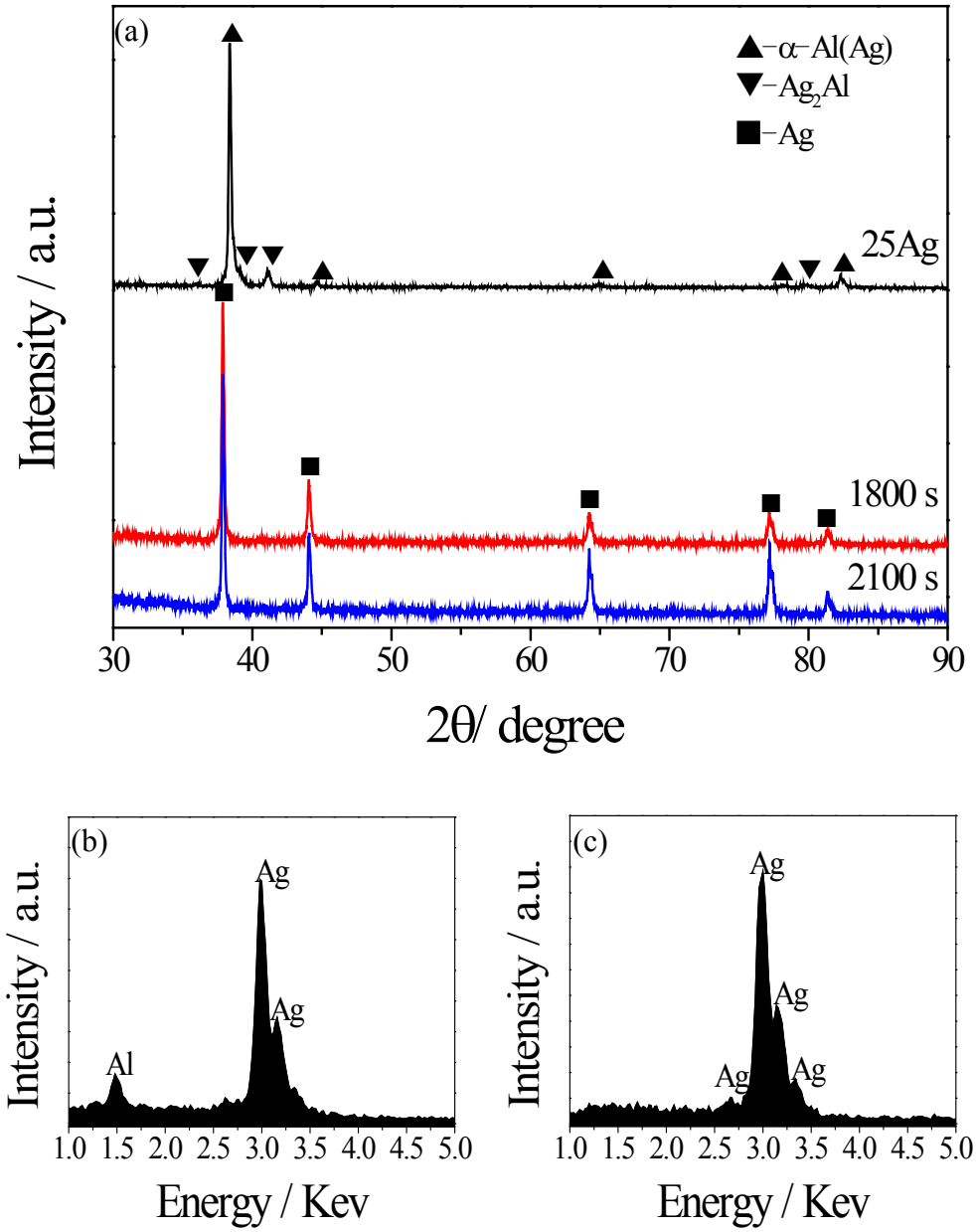

Figure S1. (a) XRD patterns for the starting Al-25Ag alloy and samples dealloyed in 5 wt.% HCl solution at 371 ± 2 K for different time and typical EDX results for samples being dealloyed for 1800 s (b) and 2100 s (c).

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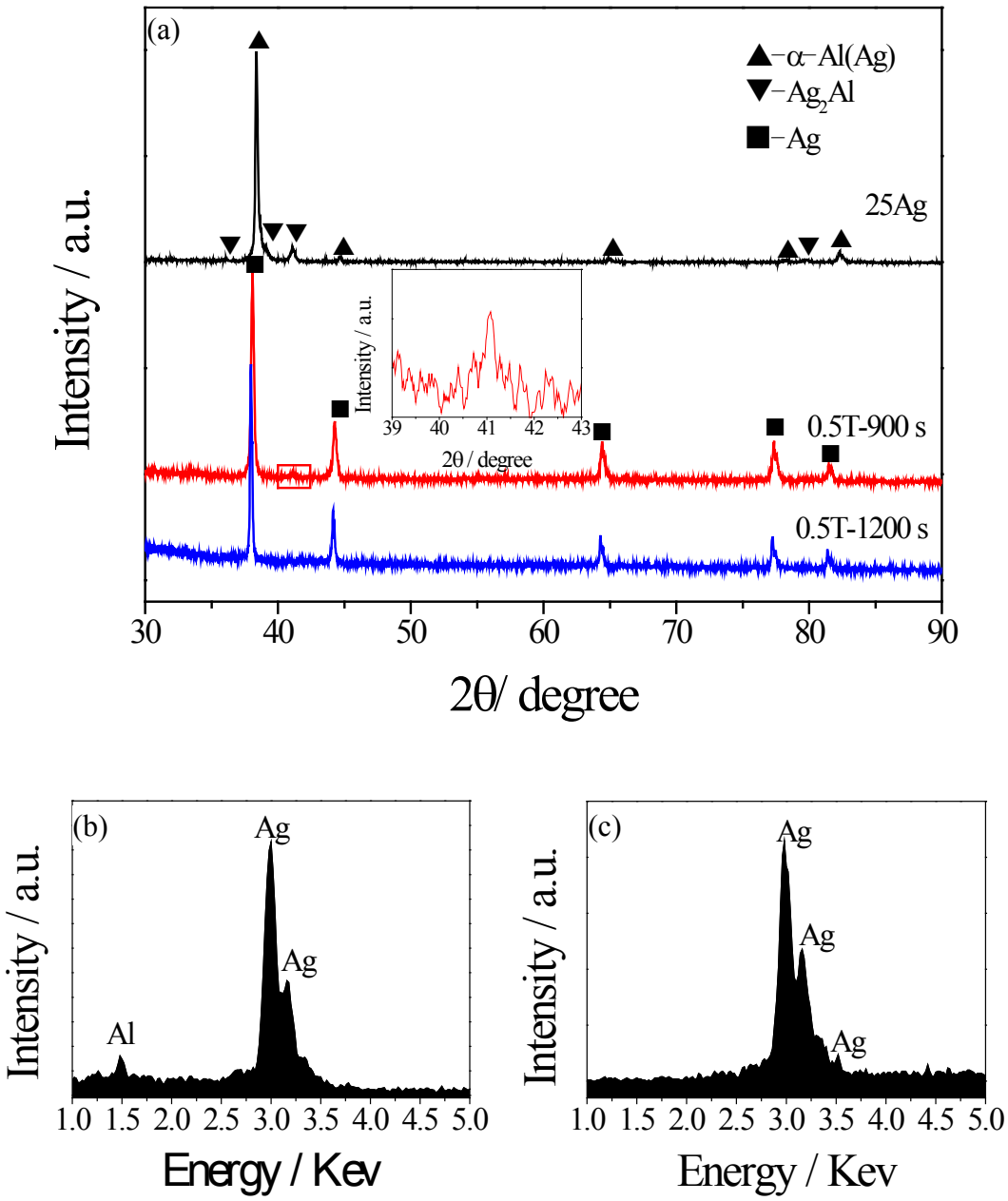

Figure S2. (a) XRD patterns for the starting Al-25Ag alloy and samples dealloyed in 5 wt.% HCl solution at 371 ± 2 K under magnetic field (0.5 T) for different time and typical EDX results for samples being dealloyed for 900 s (b) and 1200 s (c).

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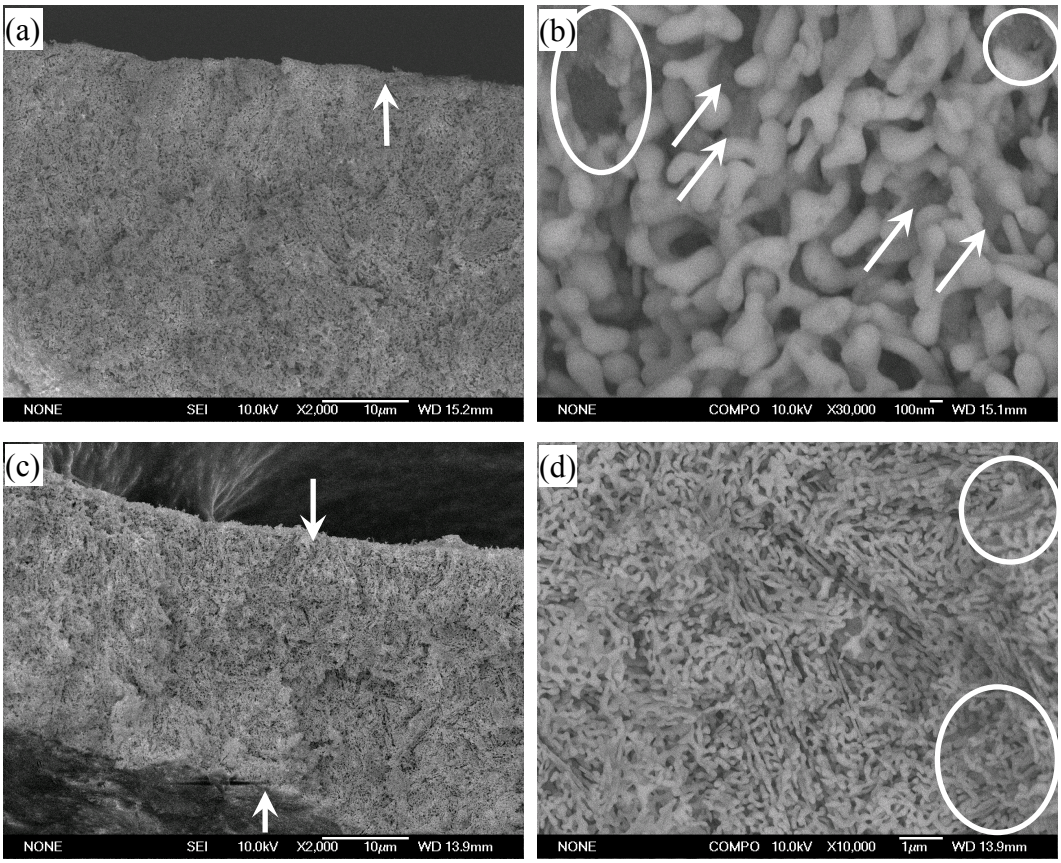

Figure S3. SEM images of the Al-25Ag alloy dealloyed at 371 ± 2 K for 1800 s under non-treatment condition ((a), (b)) and for 900 s under 0.5 T magnetic field ((c), (d)).

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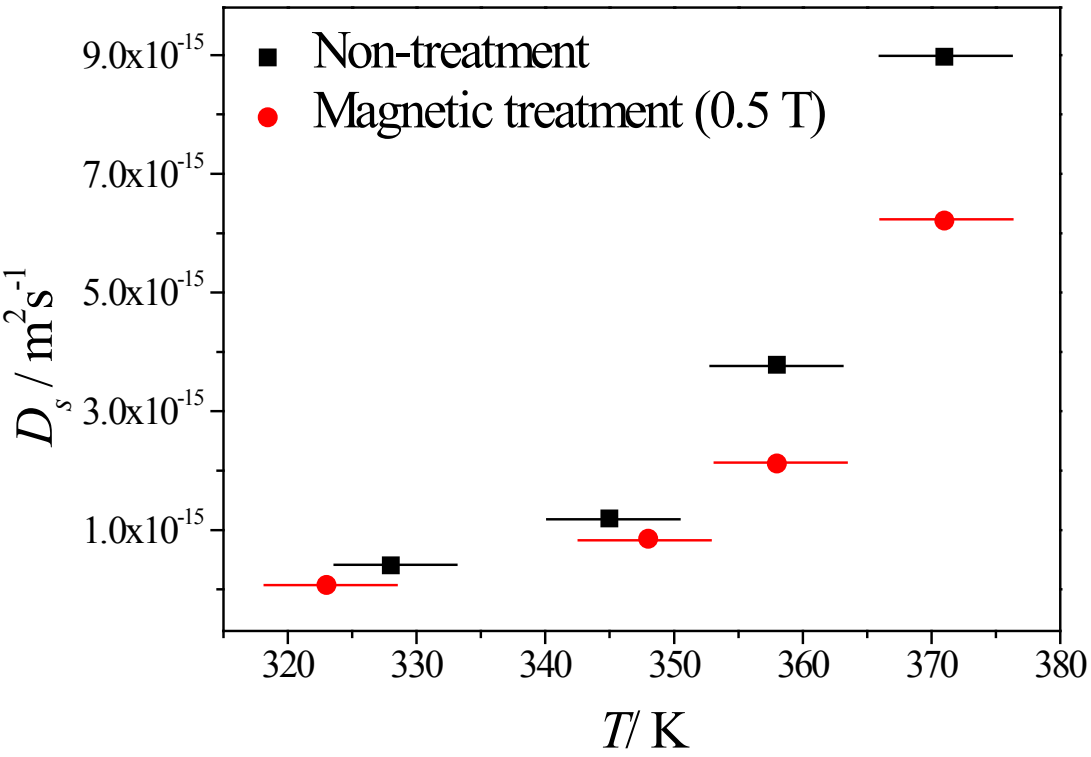

Figure S4. D_s of Ag atoms for the Al-Ag dealloyed in various conditions.