**Supplementary material**

**Extraction of Cs bound with biotite by addition of oxalic acid without heating**

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**Table S1** Characteristic of biotite in this study.

|  |  |
| --- | --- |
| Chemical component | wt% |
| SiO2Al2O3TiO2Fe2O3MgOCaOK2O |  50.3 21.5 2.2 8.9 9.9 1.4 5.8 |

**Desorbed elements from biotite**



**Fig. S1** Desorption rate of elements at each leaching time from biotite by (a) 1.0 mol/L LiNO3 and (b) 0.1 mol/L oxalic acid; Symbols, purple triangle was Fe, blue circle was Mg, red square was Al, and green rhombus was Si, respectively