



Figure S1. Leaching characteristics of individual rare earth elements as a function of varying sulfuric acid concentrations (mol/L).

Table S1. Individual REE content in the lignite material screened at 30 mesh.

Sc	Y	La	Ce	Pr	Nd	Sm	Eu	Gd
13.36	84.37	72.22	146.17	15.54	58.75	12.74	2.79	16.16
Tb	Dy	Ho	Er	Tm	Yb	Lu	LREE	HREE
1.29	15.37	2.27	5.87	1.14	7.13	1.37	337.7	118.8