

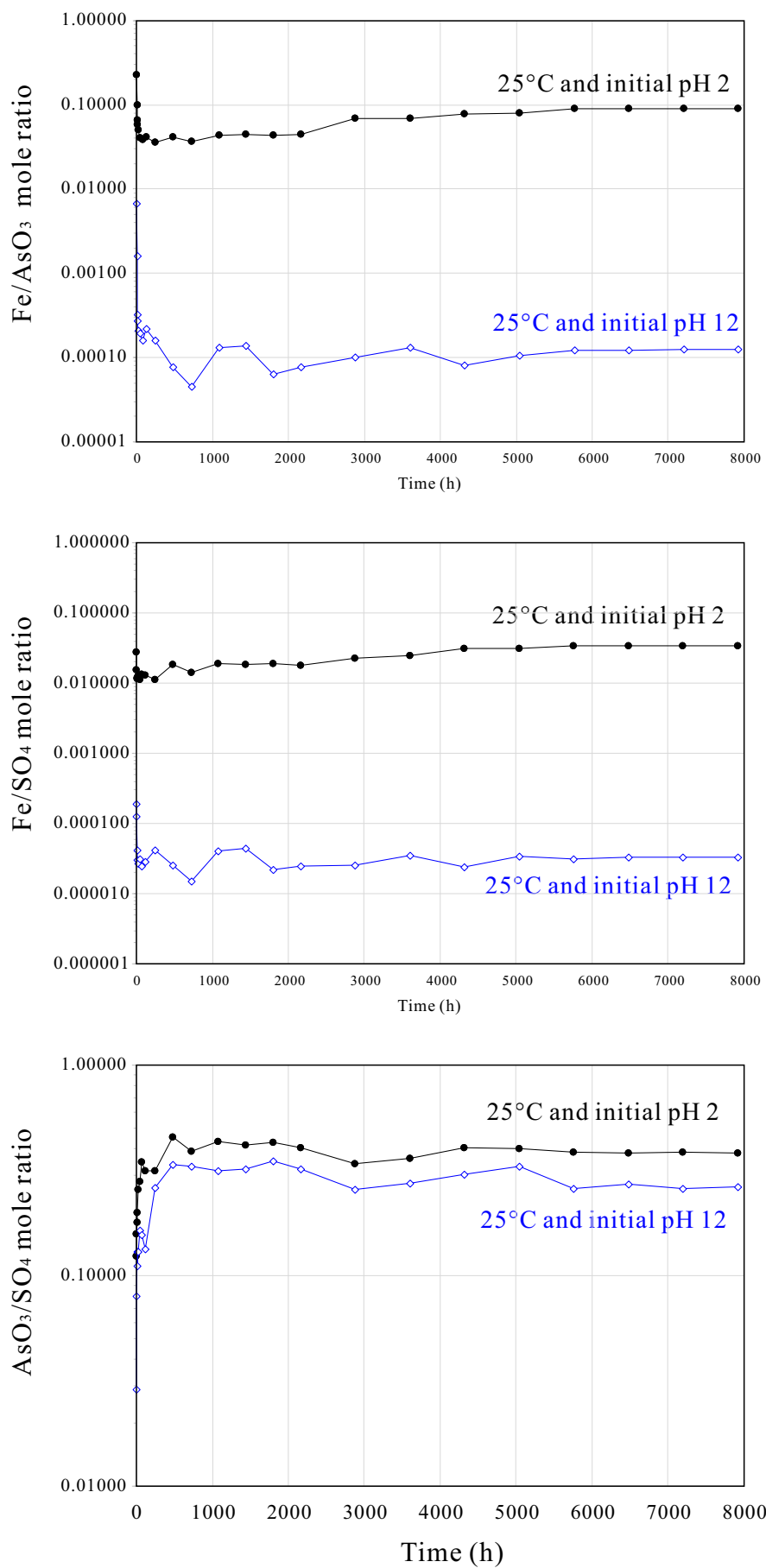
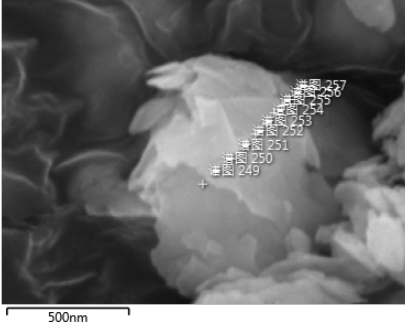
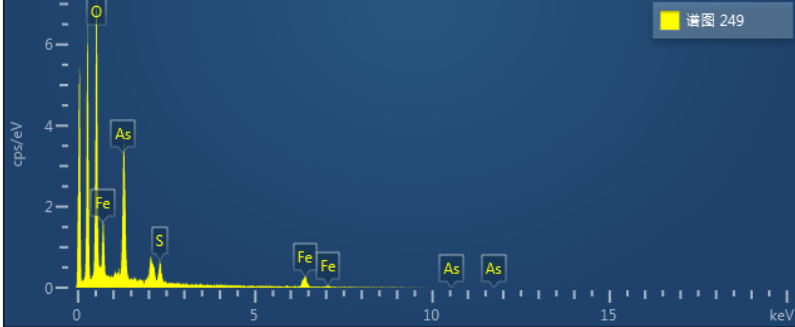
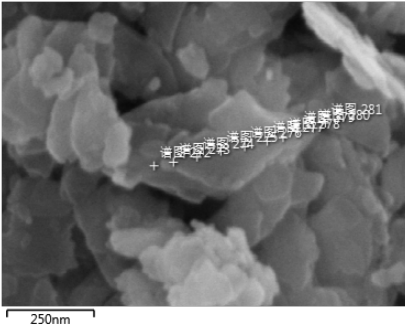
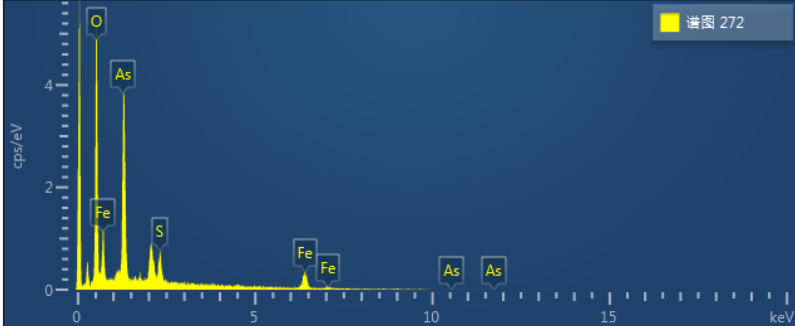


Figure S1 Change of the mole ratios between the solution components in the tooeleite dissolution at 25°C and initial pH 2 or 12.

Table S1

SEM-EDS analysis results of tooeleite before and after dissolution.

Point No.	Element (wt%)			Mole ratio	
	S	Fe	As	Fe/(As+S)	As/(As+S)
Before dissolution					
电子图像 42  					
249	3.21	27.59	26.18	1.10	0.78
250	2.99	26.87	27.36	1.05	0.80
251	3.28	26.59	26.70	1.04	0.78
252	2.91	25.60	26.74	1.02	0.80
253	2.94	26.02	26.40	1.05	0.79
254	3.07	27.39	25.24	1.13	0.78
255	3.15	25.21	26.17	1.01	0.78
256	3.28	28.00	24.79	1.16	0.76
257	2.80	24.82	25.50	1.04	0.80
After dissolution					
电子图像 46  					
272	3.43	32.79	30.11	1.15	0.79
273	3.68	34.78	29.01	1.24	0.77
274	3.38	33.84	29.51	1.21	0.79
275	3.82	34.16	28.84	1.21	0.76
276	3.11	31.96	30.31	1.14	0.81
277	3.37	31.17	30.35	1.09	0.79
278	3.16	30.92	30.18	1.10	0.80
278	3.38	29.71	29.87	1.06	0.79
280	3.45	28.74	30.11	1.01	0.79
281	3.46	30.97	30.30	1.08	0.79