

All data generated or analysed during this study are included in this published article [and its supplementary information files].

The main raw data of this paper are derived from experimental on cyanide removal of gold tailings under medium-temperature roasting, The baked gold tailings are delivered to Paishanlou company。 The cyanide content detection of tailings was assisted by Paishanlou company which has the qualified of cyanide content detection.

The trial procedure is described in detail in the article , Through Experimental on Cyanide Removal of Gold Tailings under Medium-Temperature Roasting, the following primary raw data were obtained。

Table of experiment results of cyanide removal by roasting

NO.	Temperature (°C)	Time (min)	Total cyanide content(mg/L)	Moisture content (%)	NO.	Temperature (°C)	Time (min)	Total cyanide content(mg/L)	Moisture content (%)
1	150	10	0.62	7.12	11	250	30	0.01	0.18
2		20	0.40	2.4	12		40	0.01	0.12
3		30	0.21	0.43	13		10	0.23	2.52
4		40	0.16	0.29	14		20	0.18	2.21
5	200	10	0.65	5.51	15	300	30	0.01	0.11
6		20	0.14	2.33	16		40	not detected	0.10
7		30	0.05	0.19	17		10	0.34	1.92
8		40	0.03	0.20	18		20	0.01	1.15
9	250	10	0.33	4.32	19	350	30	not detected	0.14
10		20	0.19	3.31	20		40	not detected	0.14

The datasets used and/or analysed during the current study available from the corresponding author on reasonable request.