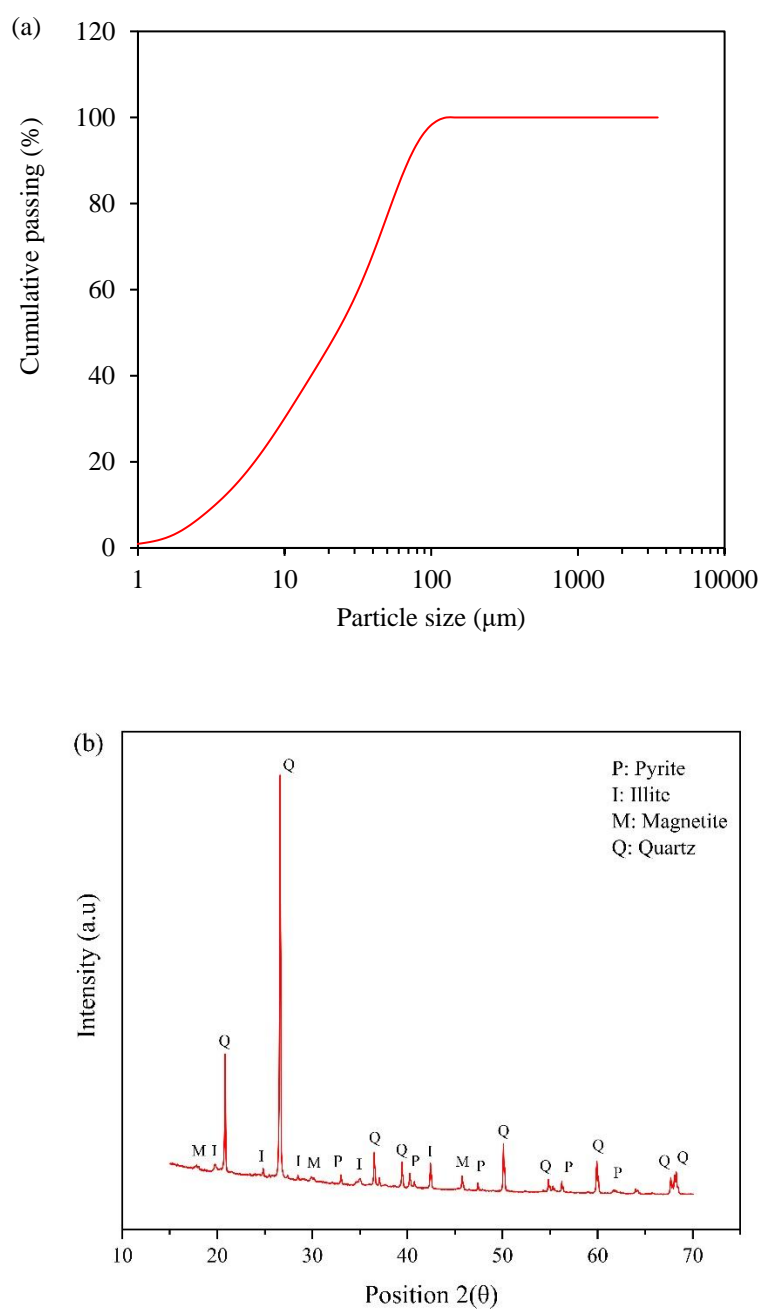Number of pages: 2
Number of figures: 1
Number of tables: 2

(a)

(b)

Figure S1. (a) particle size distribution and (b) XRD pattern of the gold-bearing sulfidic ore used in bio-oxidation experiments.

Table S1. D-optimal RSM test matrix for parameter optimization for bio-oxidation assisted by *P. chrysosporium*.

Run	A: Glucose (g/L)	B: Malt extract (g/L)	C: Yeast extract (g/L)	D: MgSO$_4$·7H$_2$O (g/L)
1	20	0	0.31	0.5
2	14.82	3.5	1.58	0.5
3	13.49	2.19	1.52	0.17
4	16.11	1.36	0	0.3
5	20	3.5	0	0.5
6	20	0	0	0
7	15.15	0	2.5	0
8	10	3.5	0	0.41
9	10	3.5	0	0.41
10	10	0	0	0.5
11	14.82	3.5	1.58	0.5
12	10	0	1.59	0.24
13	10	1.71	2.5	0.5
14	10	0.67	0	0
15	20	1.81	1.6	0
16	17.6	0	1.42	0.25
17	18.55	3.17	0.94	0.26
18	10	3.5	2.5	0
19	18.55	3.5	0	0
20	20	3.5	2.5	0.26
21	20	0	2.5	0.5
22	10.16	3.5	0.43	0
23	10	0	0	0.5
24	20	1.81	1.6	0
25	15.15	0	2.5	0

Table S2. ANOVA results for the fitted multiple regression model.

Standard deviation	**3.49**	**R^2**	**0.9182**
Mean	13.12	Adjusted R^2	0.8597
CV%	26.59	Predicted R^2	0.7627
Press	493.87	Signal to noise ratio	12.855