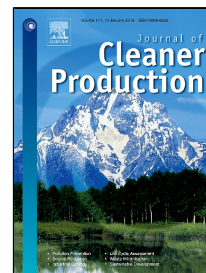


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Synthesis of lead sulfide by heavy metal gypsum matched with lead paste

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- ▶ The two-step reaction is proposed to synthesize PbS and CaO by heavy metal gypsum and lead paste.
- ▶ The solid production lead sulfide can be reused as raw materials in the in the production process of lead and zinc of the metallurgical industry.
- ▶ The content of lead in the final production is up to 70.89%, exceeding the standard level of lead of industry standard for the nonferrous industry of China.
- ▶ Heavy metals in waste gypsum can be accumulated and collected in the process. With the final production PbS include heavy metals can be reused in the production process of lead of the metallurgical industry.
- ▶ The two-step reaction to synthesize PbS and CaO with heavy metal gypsum and lead paste is an environmentally-friendly, economically and high value-added. It is an efficient method to recycle heavy metal gypsum.

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