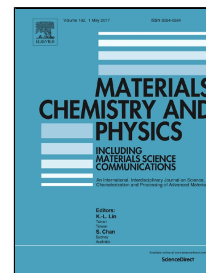


Accepted Manuscript

A novel method for direct fabrication of ferromolybdenum using molybdenite via self-propagation high temperature synthesis



M.H. Golmakani, J. Vahdati khaki, A. Babakhani

PII: S0254-0584(17)30222-5

DOI: 10.1016/j.matchemphys.2017.03.017

Reference: MAC 19563

To appear in: *Materials Chemistry and Physics*

Received Date: 09 August 2016

Revised Date: 10 January 2017

Accepted Date: 09 March 2017

Please cite this article as: M.H. Golmakani, J. Vahdati khaki, A. Babakhani, A novel method for direct fabrication of ferromolybdenum using molybdenite via self-propagation high temperature synthesis, *Materials Chemistry and Physics* (2017), doi: 10.1016/j.matchemphys.2017.03.017

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Highlights

- A new SHS method for direct fabrication of ferromolybdenum from MoS_2 is introduced.
- Addition of CaO as an effective desulfurizing agent has been investigated.
- Removing the oxidative roasting process, and sulfur gas emission have been evaluated.
- The results show the formation of an undesirable ternary compound, $\text{Fe}_3\text{Mo}_3\text{C}_{1-x}$.

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