

Accepted Manuscript

Title: A novel method to remove chromium, vanadium and ammonium from vanadium industrial wastewater using a byproduct of magnesium-based wet flue gas desulfurization

Authors: Dean Fang, Xuefei Zhang, Mengge Dong, Xiangxin Xue



PII: S0304-3894(17)30296-0
DOI: <http://dx.doi.org/doi:10.1016/j.jhazmat.2017.04.048>
Reference: HAZMAT 18531

To appear in: *Journal of Hazardous Materials*

Received date: 2-1-2017
Revised date: 25-3-2017
Accepted date: 19-4-2017

Please cite this article as: Dean Fang, Xuefei Zhang, Mengge Dong, Xiangxin Xue, A novel method to remove chromium, vanadium and ammonium from vanadium industrial wastewater using a byproduct of magnesium-based wet flue gas desulfurization, *Journal of Hazardous Materials* <http://dx.doi.org/10.1016/j.jhazmat.2017.04.048>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

A novel method to remove chromium, vanadium and ammonium from vanadium industrial wastewater using a byproduct of magnesium-based wet flue gas desulfurization

Dean Fang^{a,b}, Xuefei Zhang^{a,b}, Mengge Dong^{a,b}, Xiangxin Xue^{a,b,*}

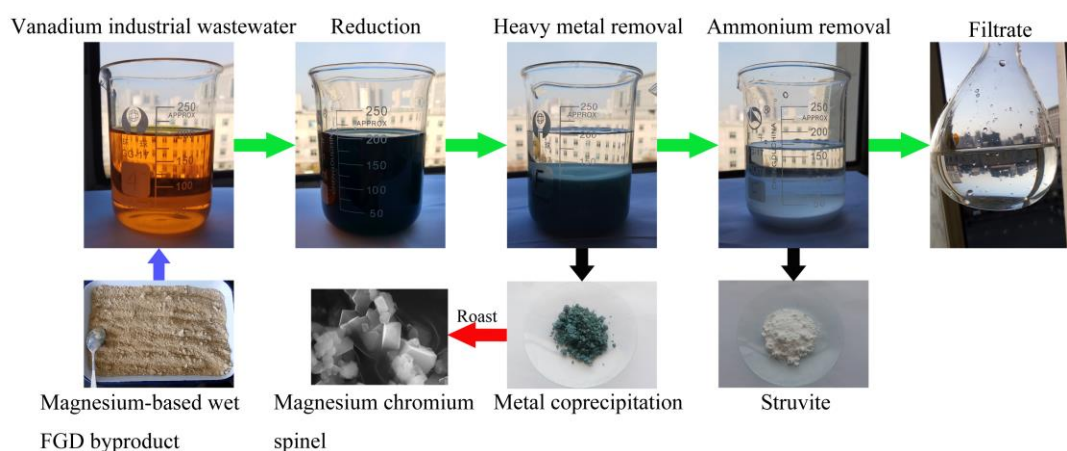
^a School of Metallurgy, Northeastern University, Shenyang, 110004, China

^b Liaoning Key Laboratory of Metallurgical Resources Recycling Science, Shenyang 110004, China

*Corresponding author

E-mail address: 123767899@qq.com; xuexx@mail.neu.edu.cn (X. Xue)

Graphical abstract



Highlights

- Low cost and efficient treatment technology for the vanadium industrial wastewater.
- To treat wastewater using a byproduct of magnesium-based wet flue gas desulfurization.
- Characterization analysis and resource utilization method of the precipitation sludge from this technology is presented.
- The new technology achieves the objective of “waste control by waste”.

Download English Version:

<https://daneshyari.com/en/article/4979369>

Download Persian Version:

<https://daneshyari.com/article/4979369>

[Daneshyari.com](https://daneshyari.com)