Cover page

Direct Production of Lithium Hydroxide from Brine by Electrochemical Flow Cells

Innovation: an electrochemical process to achieve lithium extraction from brine and direct conversion to lithium hydroxide in the same electrochemical cell – producing lithium hydroxide with high efficiency and purity, low cost, low energy consumption, low water consumption, and low toxic species generation.

Link to your 90-second video online: https://youtu.be/AW C1-lacvY

Key project members

Wei Lu

Professor University of Michigan

Phone: (734)6477858 Email: weilu@umich.edu

Department website: https://me.engin.umich.edu/people/faculty/wei-lu

Research group website: https://lu.engin.umich.edu/

Tianhan Gao PhD Research Assistant University of Michigan Email: thgao@umich.edu

Derek Barnes PhD Research Assistant University of Michigan Email: djbarnes@umich.edu

Keywords: electrochemical process, direct production of lithium hydroxide, low cost, low energy consumption, low water consumption.

City and state: Ann Arbor, Michigan