

Supporting Information

Location and Stability of Europium in Calcium Sulfate and its Relevance to Rare Earth Recovery from Phosphogypsum Waste

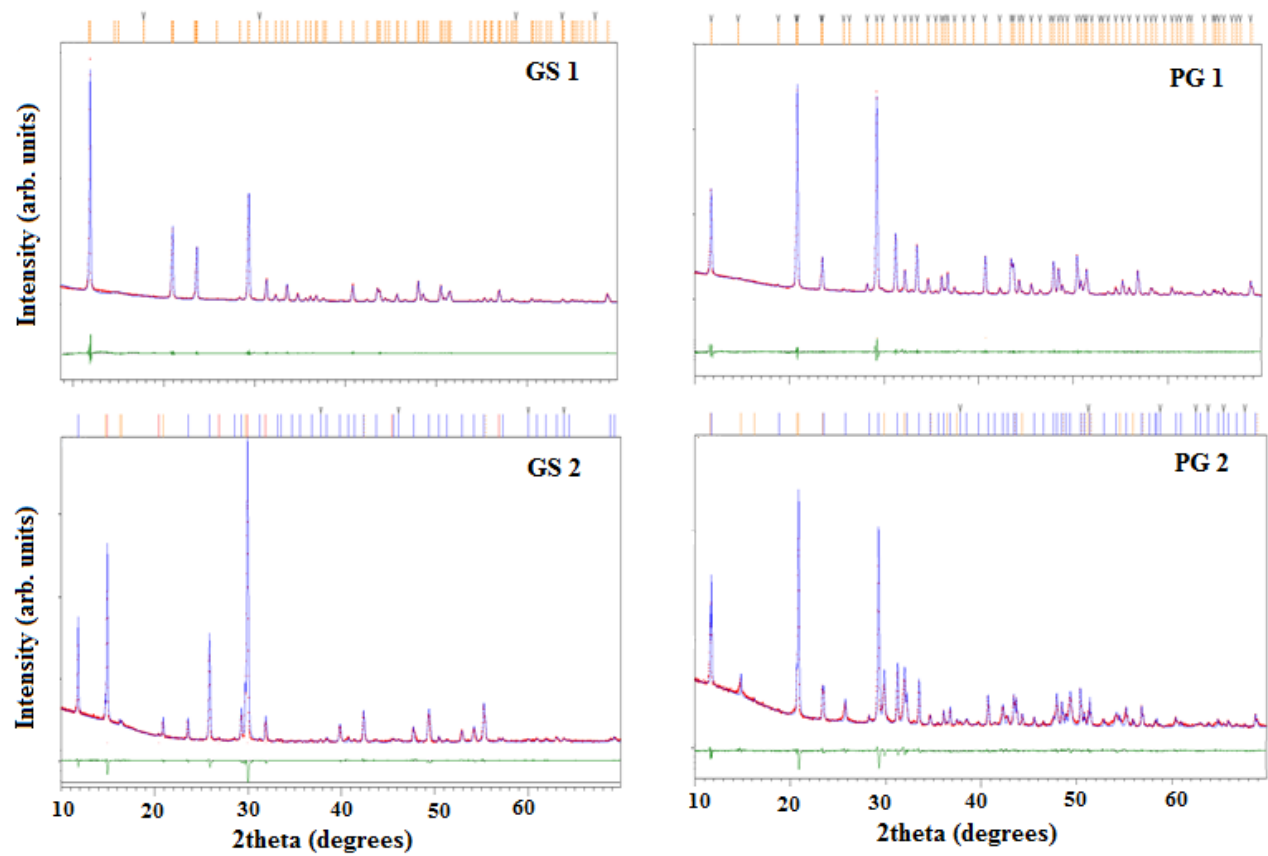
Radha Shivaramaiah,¹ Wingyee Lee,¹ Alexandra Navrotsky,¹ Dechao Yu,² Paul Kim,²

Haohan Wu,² Zhichao Hu,² Richard Riman² and Andrzej Anderko³

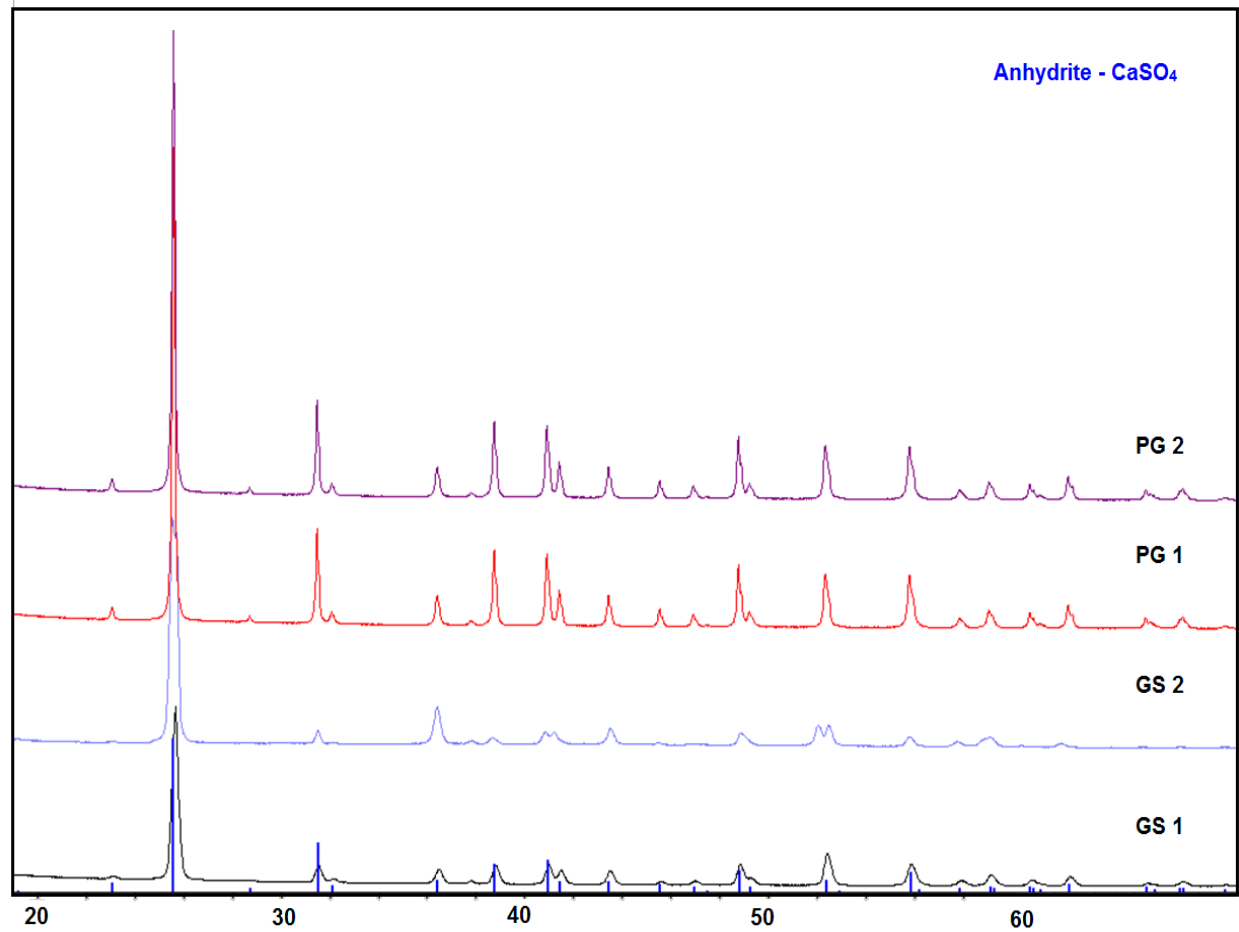
¹ *Peter A. Rock Thermochemistry Laboratory and NEAT ORU, University of California Davis,
Davis, California 95616*

² *Department of Materials Science and Engineering, Rutgers, The State University of New
Jersey, 607 Taylor Road, Piscataway, New Jersey 08855*

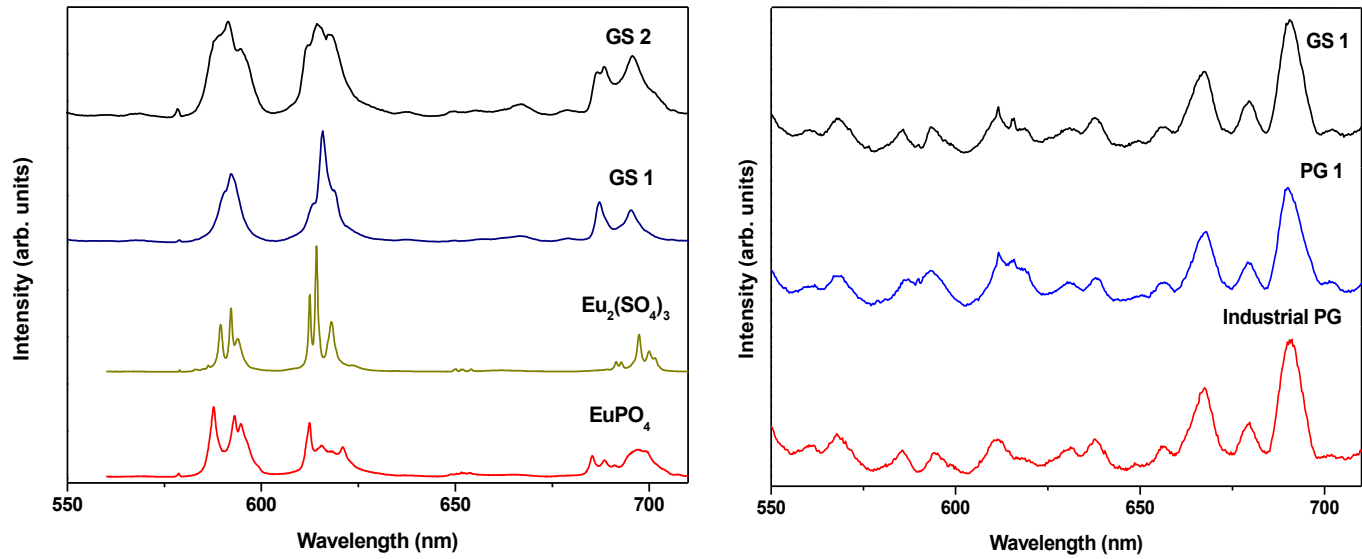
³ *OLI Systems, Inc., 240 Cedar Knolls Road, Suite 301, Cedar Knolls, New Jersey 07927*



SI 1. Rietveld fit of PXRD patterns of all the four samples.



SI 2. PXRD patterns of all the heat treated samples at 600 °C stacked with anhydrite



SI 3. PLS spectra of all the four synthesized samples stacked with the industrial phosphogypsum, EuPO_4 and $\text{Eu}_2(\text{SO}_4)_3$.