

**Supplemental Material**

**Preservation of organic matter in nontronite against iron redox  
cycling**

Qiang Zeng <sup>1</sup>, Hailiang Dong <sup>1,2\*</sup>, Linduo Zhao <sup>2</sup>, and Qiuyuan Huang <sup>2</sup>

<sup>1</sup> Key Laboratory of Biogeology and Environmental Geology, China University of  
Geosciences, Beijing 100083, P. R. China

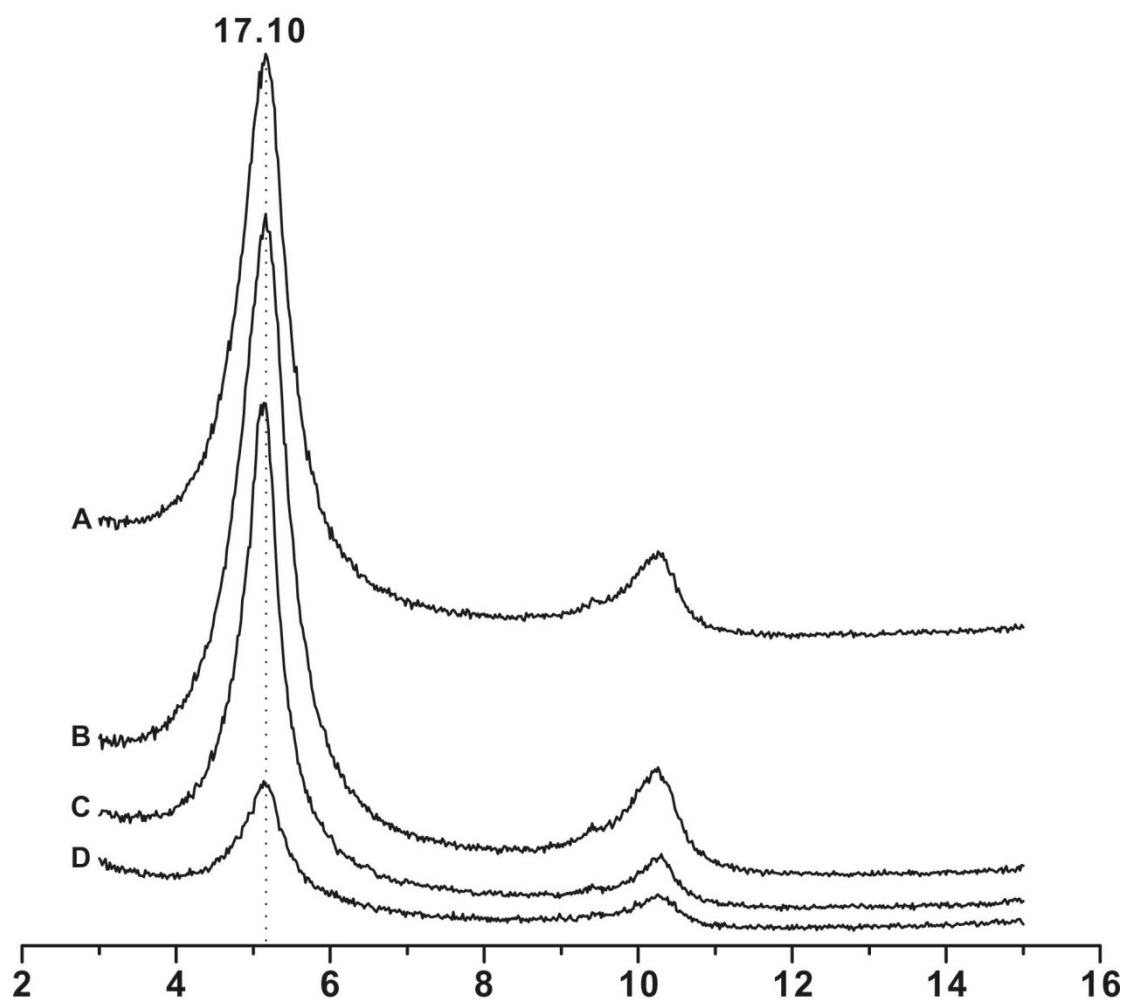
<sup>2</sup> Department of Geology and Environmental Earth Science  
Miami University, Ohio 45056, USA

Authors to whom correspondence should be addressed

([dongh@cugb.edu.cn](mailto:dongh@cugb.edu.cn) or [dongh@miamioh.edu](mailto:dongh@miamioh.edu))

Revised for American Mineralogist

July 24, 2015



**Fig. 1** XRD patterns for ethylene glycol treated samples: A) Bioreduced N<sub>Au</sub>-2 without AQDS; B) Bioreduced N<sub>Au</sub>-2 with AQDS; C) Bioreduced ALA-N<sub>Au</sub>-2 without AQDS; D) Bioreduced ALA-N<sub>Au</sub>-2 with AQDS

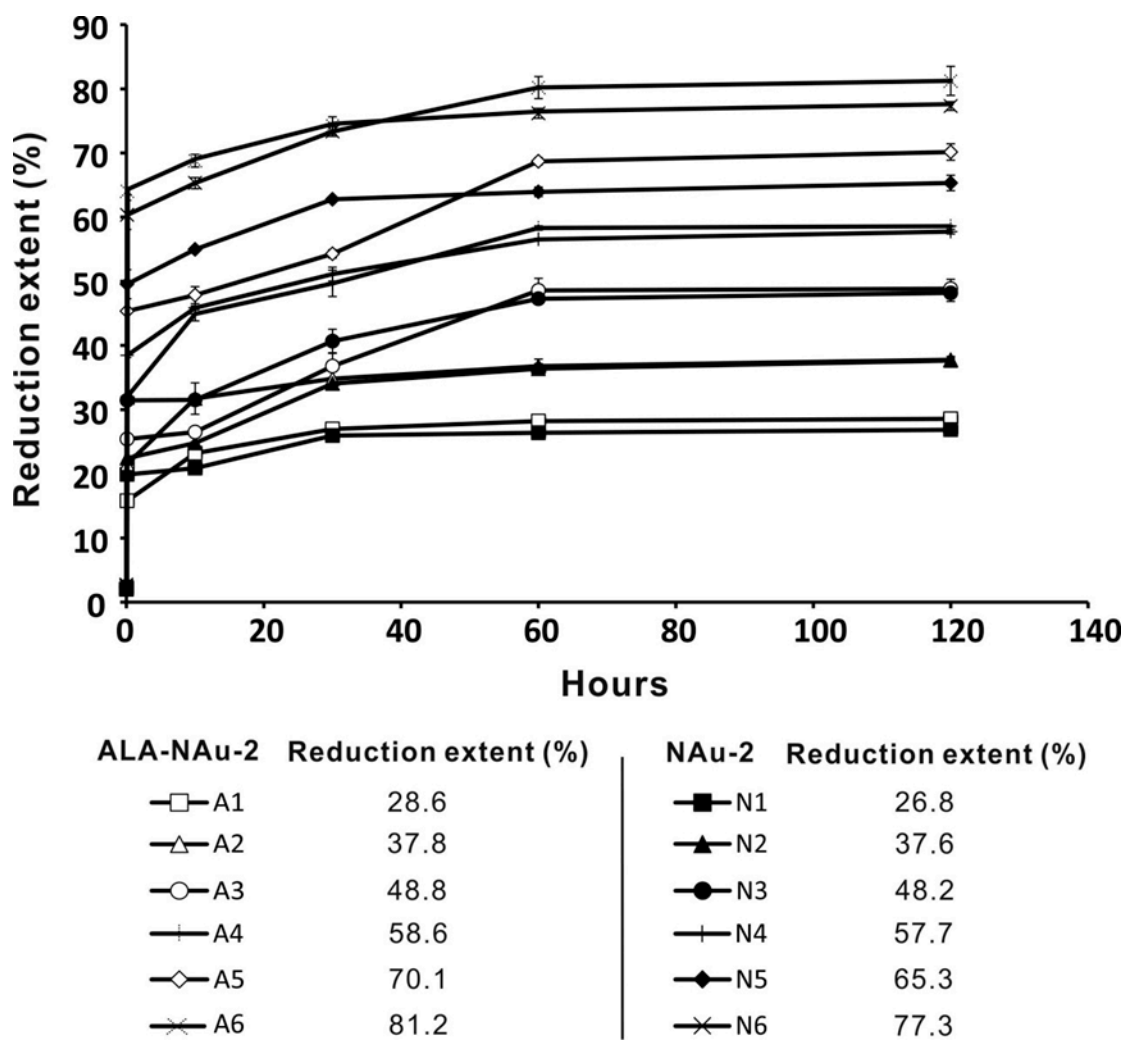


Fig. 2 Chemical reduction of ALA-NAu-2 and N Au-2 with different reduction extent