

Valorization of BaCO₃ with 8-HQS to Produce the Optical Chemo-Probe for Highly Selective Sensing of Cd²⁺ in Aqueous Media

Sahel Sharifi¹, Amin Moghaddasfar¹, Ghodsi Mohammadi Ziarani², Alireza Badiei^{1}*

1. School of Chemistry, College of Sciences, University of Tehran, Iran

2. Department of Organic Chemistry, Faculty of Chemistry, Alzahra University, Iran

* E-mail address: abadiei@ut.ac.ir

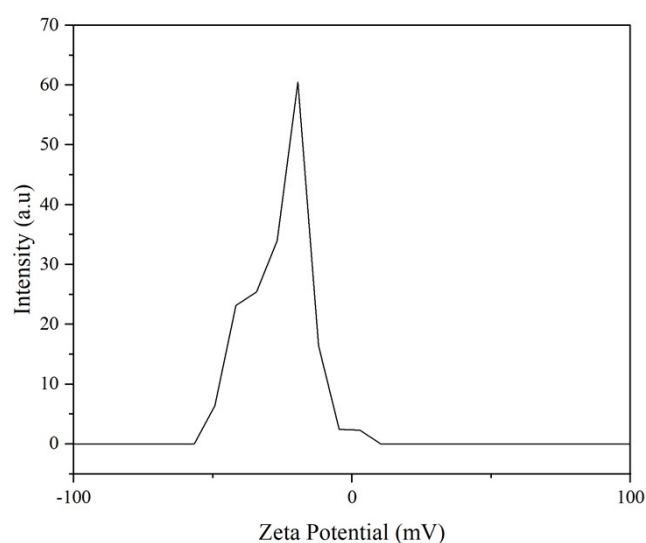


Figure S1. Zeta potential of BaCO₃-8-HQS.

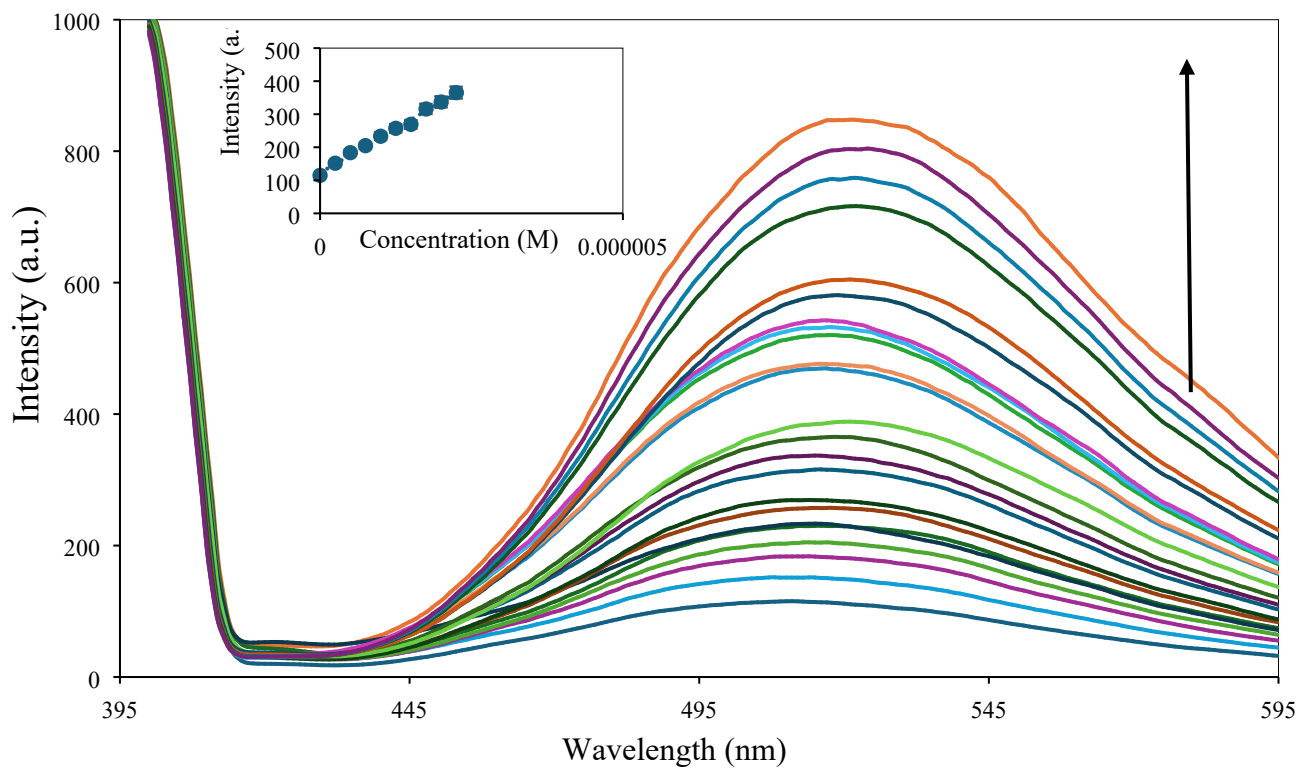


Figure S2. The titration plot of BaCO₃-8-HQS through the addition of Cd²⁺ ($\lambda_{\text{ex}} = 392 \text{ nm}$).

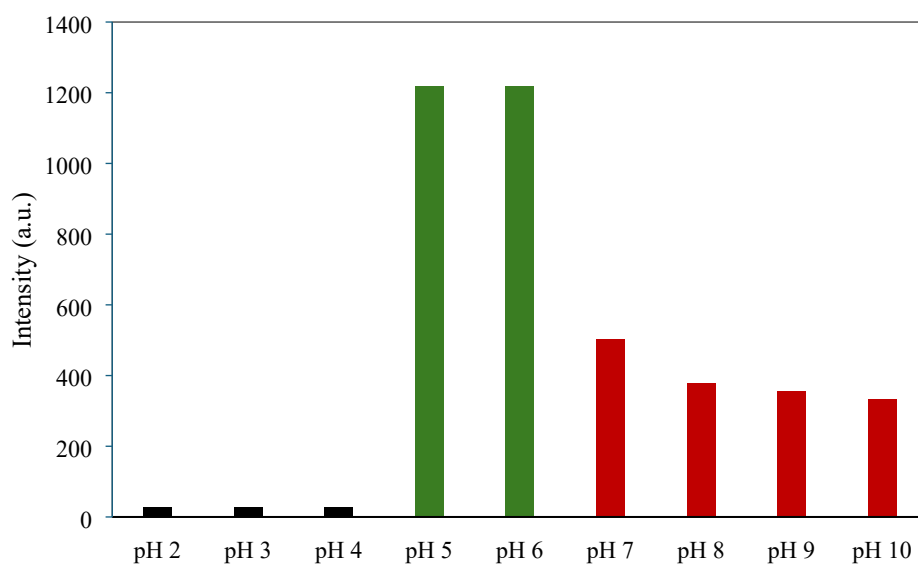


Figure S3. The emission intensity of BaCO₃-8-HQS-Cd²⁺ in a variety of pH ranges