

Supporting Information

Ultrafast Dynamics of a Molecular Rotor in Chemical and Biological Nano-Cavities

Krishna Gavvala, Sagar Satpathi, Partha Hazra*

Department of Chemistry, Indian Institute of Science Education and Research (IISER), Pune
411008, Maharashtra, India.

* Corresponding author. E-mail: p.hazra@iiserpune.ac.in. Tel.: +91-20-2590-8077; Fax: +91-20-2589 9790.

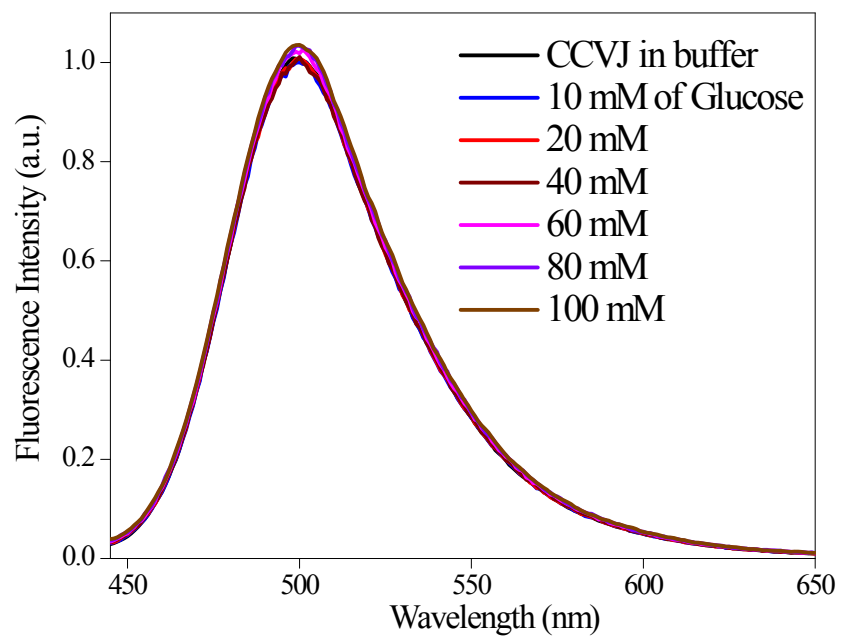


Figure S1. Emission spectra ($\lambda_{\text{ex}} = 430 \text{ nm}$) of CCVJ ($10 \mu\text{M}$) in presence of various concentration of glucose.

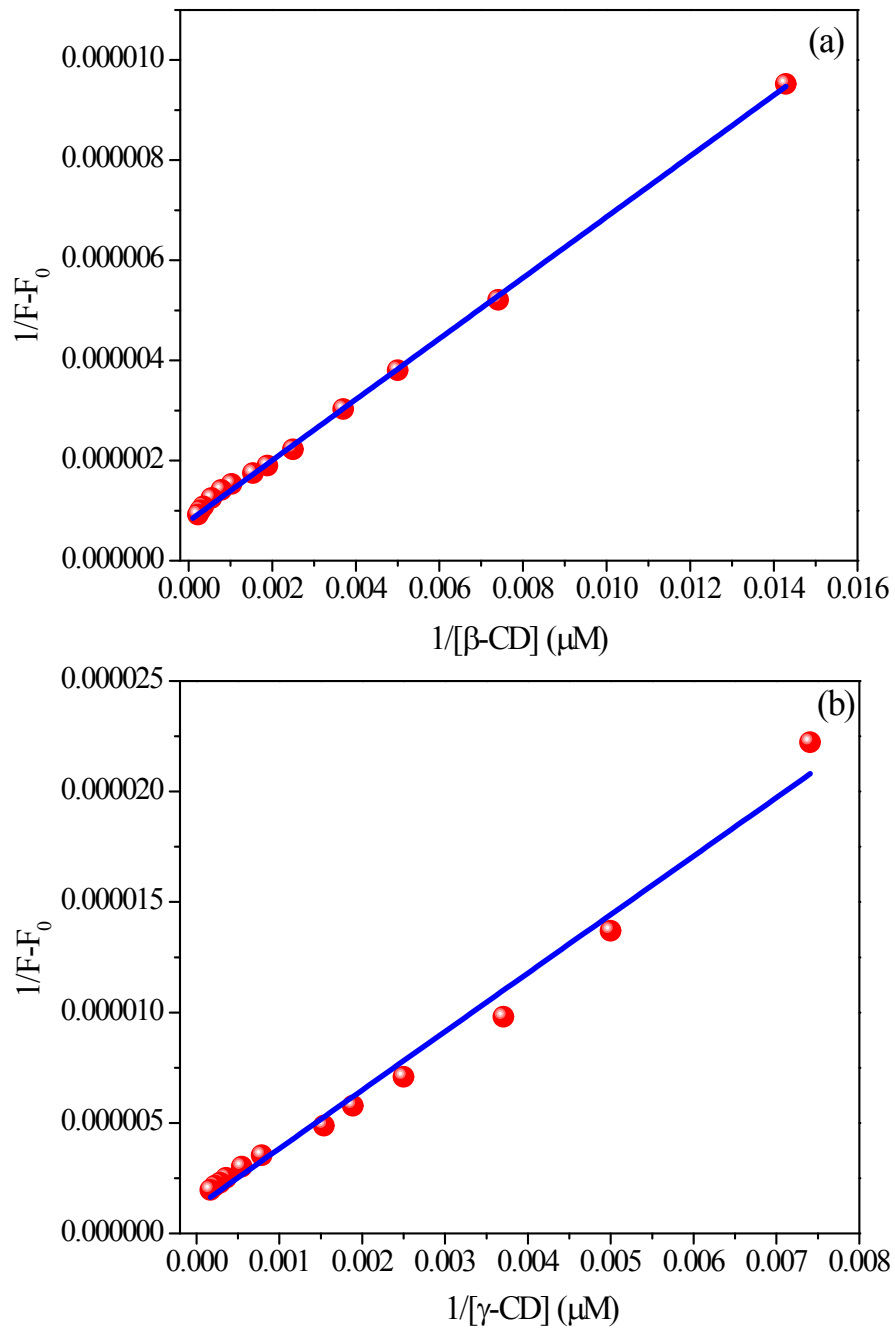


Figure S2. Benesi-Hildebrand plot for complexation of CCVJ with β -CD (a) and γ -CD (b).

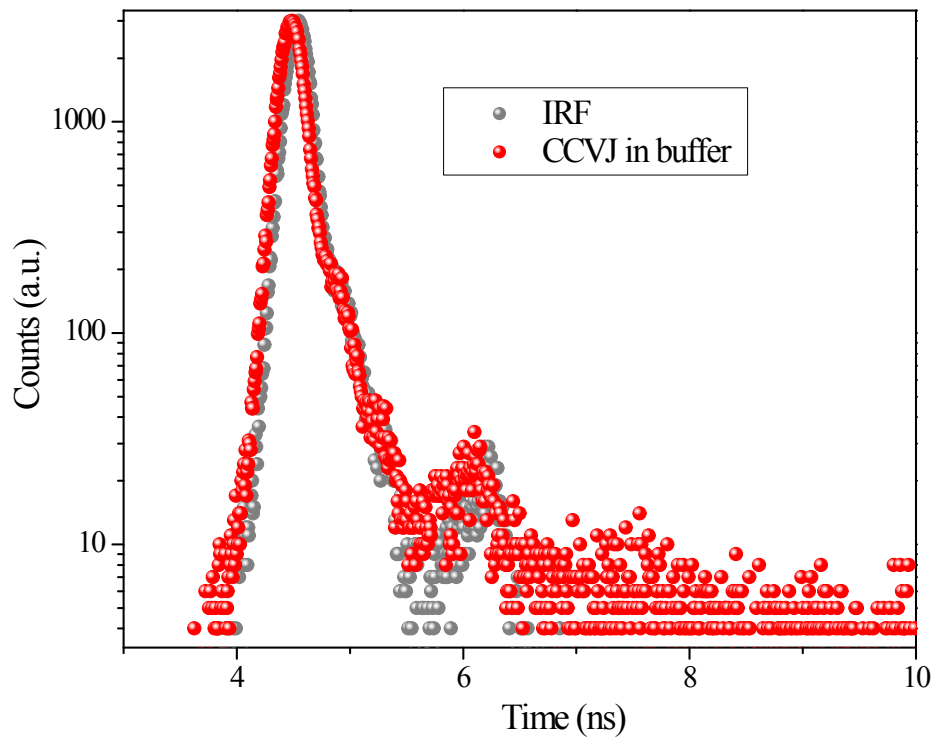


Figure S3. Fluorescence decay transient of CCVJ in buffer using TCSPC set-up. Instrument response profile is shown in grey color. Excitation wavelength is 440 nm.

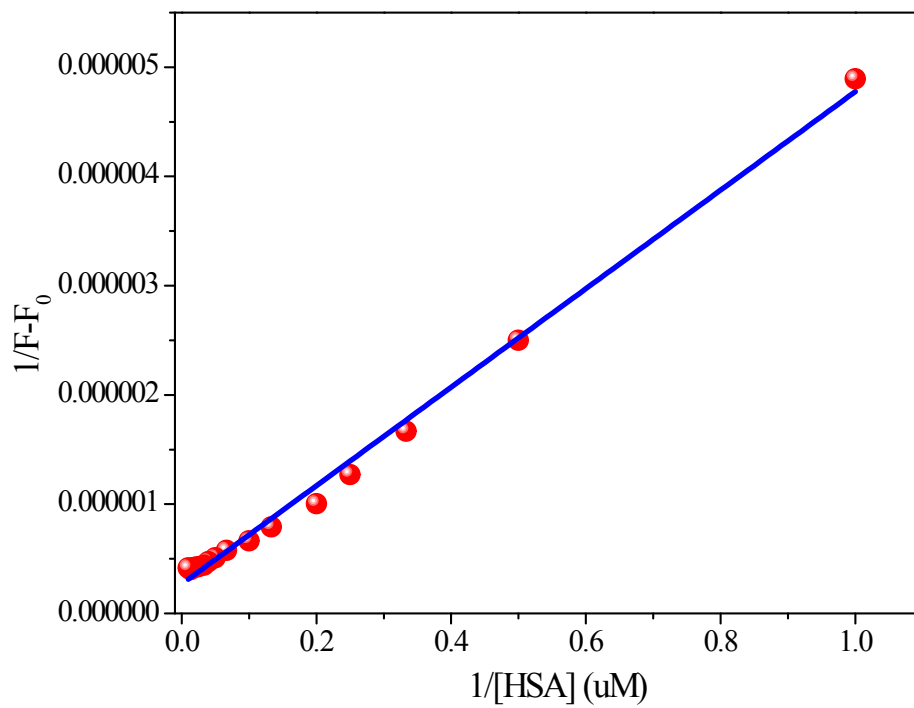


Figure S4. Benesi-Hildebrand plot for the complexation of CCVJ with HSA protein.