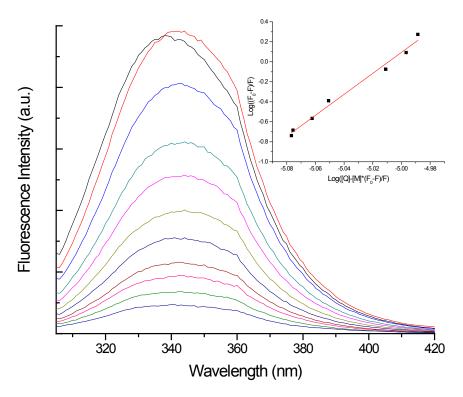
## **Supporting Information**

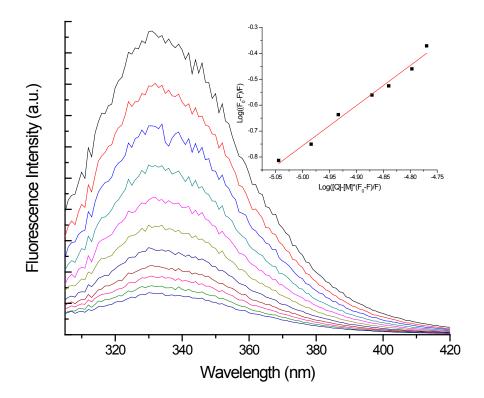
## Understanding of the regioselective hydrolysis of human serum albumin by Zr(IV)-substituted polyoxotungstates using tryptophan fluorescence spectroscopy

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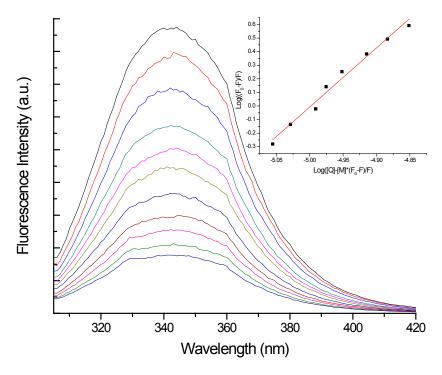


**Figure S1.** Emission fluorescence spectra of HSA in the absence and presence of different concentrations of Zr4-WD2 ([HSA] =  $10^{-5}$  M, pH = 7.4). From top to bottom, the concentration of Zr4-WD2 increased stepwise from 0 to  $10^{-5}$  M with increments of  $10^{-6}$  M. In the inset, the plot of the Tachiya equation is given (with  $R^2 = 0.99$ ). From the plot,  $K_a$  and m were calculated to be  $2.8 \times 10^5$  M<sup>-1</sup> and 2.05, respectively.

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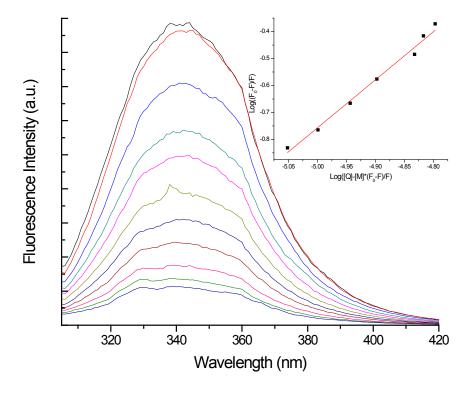


**Figure S2.** Emission fluorescence spectra of HSA in the absence and presence of different concentrations of Zr1-WD2 ([HSA] =  $10^{-5}$  M, pH = 7.4). From top to bottom, the concentration of Zr1-WD2 increased stepwise from 0 to  $10^{-5}$  M with increments of  $10^{-6}$  M. In the inset, the plot of the Tachiya equation is given (with  $R^2 = 0.99$ ). From the plot,  $K_a$  and m were calculated to be  $5.1 \times 10^5$  M<sup>-1</sup> and 1.52, respectively.



**Figure S3.** Emission fluorescence spectra of HSA in the absence and presence of different concentrations of Zr1-K2 ([HSA] =  $10^{-5}$  M, pH = 7.4). From top to bottom, the concentration of Zr1-K2 increased stepwise from 0 to  $10^{-5}$  M with increments of  $10^{-6}$  M. In the inset, the plot of the Tachiya equation is given (with  $R^2 = 0.99$ ). From the plot,  $K_a$  and m were calculated to be  $1.9 \times 10^5$  M<sup>-1</sup> and 3.44, respectively.

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**Figure S4.** Emission fluorescence spectra of HSA in the absence and presence of different concentrations of Zr2-K2 ([HSA] =  $10^{-5}$  M, pH = 7.4). From top to bottom, the concentration of Zr2-K2 increased stepwise from 0 to  $10^{-5}$  M with increments of  $10^{-6}$  M. In the inset, the plot of the Tachiya equation is given (with  $R^2 = 0.99$ ). From the plot,  $K_a$  and m were calculated to be  $2.5 \times 10^5$  M<sup>-1</sup> and 2.23, respectively.

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