Understanding interaction of engineered nanomaterials and dissolved organic matters in river sediments

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Table S1 Fitted results of fluorescence spectra for protein-like substances.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Pollutant | Excitation wavelength (nm) | Temperature(°C) | Equation | R2 |
| TiO2 | 280 | 15 | y = 0.5578x+1.0175 | 0.996 |
| TiO2 | 280 | 25 | y = 0.3735x + 1.0283 | 0.978 |
| TiO2 | 280 | 35 | y = 0.2481x + 1.0325 | 0.948 |
| TiO2 | 325 | 15 | y = 0.1369x + 0.9834 | 0.926 |
| TiO2 | 325 | 25 | y = 0.0983x + 1.0007 | 0.985 |
| TiO2 | 325 | 35 | y = 0.0688x + 0.9977 | 0.983 |

Table S2 Fitted results of fluorescence spectra for humic-like substances.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Pollutant | Excitation wavelength (nm) | Temperature(°C) | Equation | R2 |
| TiO2 | 280 | 15 | y = 0.8567x + 2.3297 | 0.992 |
| TiO2 | 280 | 25 | y = 0.8825x + 2.270 | 0.956 |
| TiO2 | 280 | 35 | y = 0.8754x + 2.1083 | 0.928 |
| TiO2 | 325 | 15 | y = 1.1727x + 2.5209 | 0.938 |
| TiO2 | 325 | 25 | y = 1.1556x + 2.4762 | 0.977 |
| TiO2 | 325 | 35 | y = 1.1916x + 2.3876 | 0.977 |

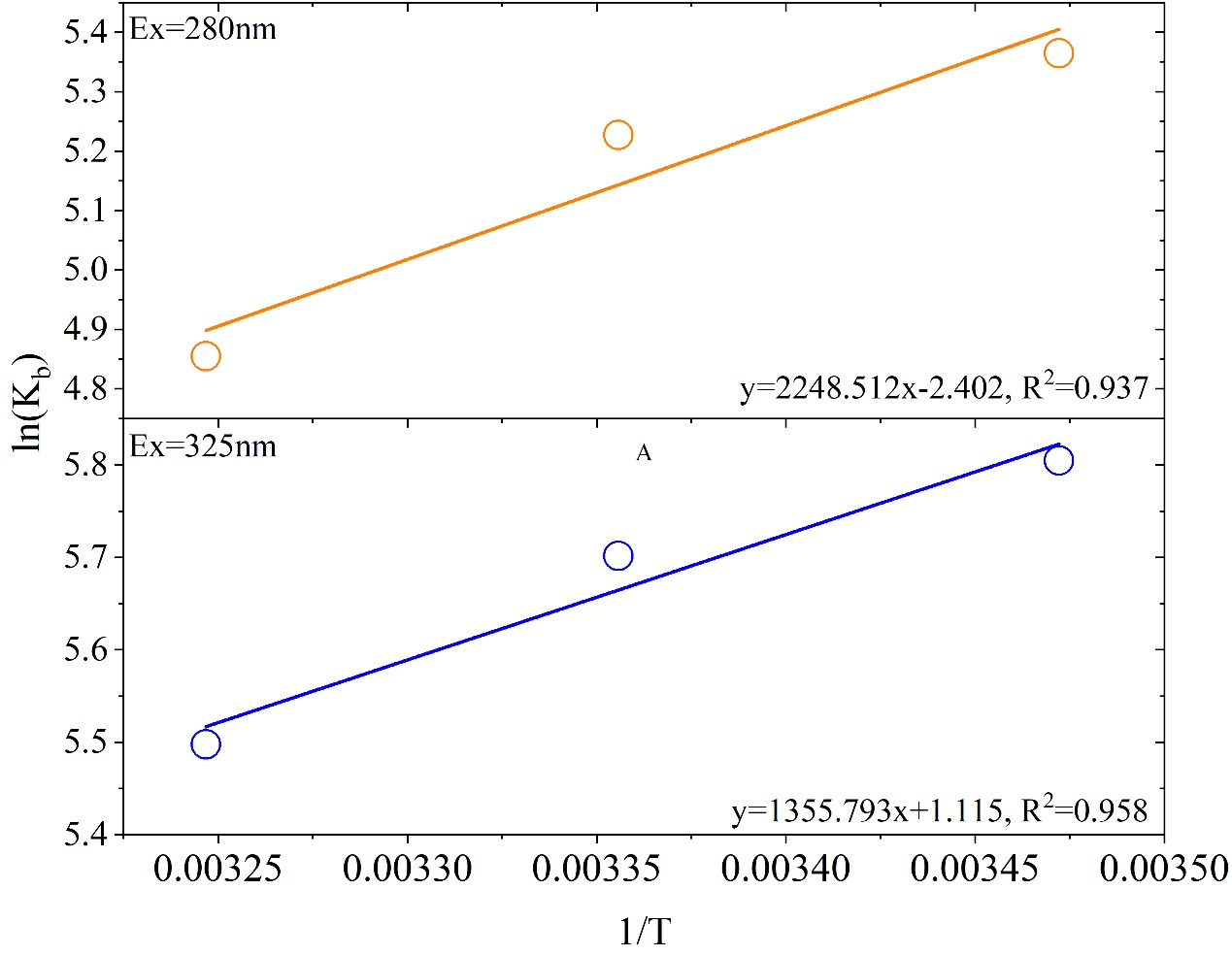


Fig. S1 Fitted results of thermodynamical analysis.