**Supplementary Material**

**Insights into Methyl Orange Adsorption Behavior on a Cadmium Zeolitic-Imidazolate Framework Cd-ZIF-8: A Joint Experimental and Theoretical Study**

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**Table S1.** Equations of kinetic and adsorption models.

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| --- | --- | --- | --- |
|  | **Model** | **Equation** | **Reference** |
| Kinetic models | Pseudo-first order |  | (Lagergren, 1898) |
| Pseudo-second order |  | (Ho and McKay, 1999) |
| Isotherms models | Langmuir |  | (Banerjee et al., 2019) |
| Freundlich |  | (Banerjee et al., 2019) |



**Figure S1.** Effect of adsorbent dose on the removal of MO by Cd-ZIF-8.



**Figure S2.** Linear relationship between and 1/T.

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