



Supplementary Materials

Hydrothermal Functionalization of Oil Palm Empty Fruit Bunch Biochar for Wastewater Treatment Purposes

Izzudin Ibrahim¹, Toshiki Tsubota², Mohd Ali Hassan³ and Yoshito Andou^{1,4,*}

- Department of Biological Functions Engineering, Graduate School of Life Science and Systems Engineering, Kyushu Institute of Technology, 2-4 Hibikino, Wakamatsu, Kitakyushu, Fukuoka 808-0196, Japan; ibrahim.izzudin516@mail.kyutech.jp
- ² Department of Applied Chemistry, Faculty of Engineering, Kyushu Institute of Technology, 1-1 Sensuicho, Tobata, Kitakyushu, Fukuoka 804-8550, Japan; tsubota@che.kyutech.ac.jp
- Department of Bioprocess Technology, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor, Malaysia; alihas@upm.edu.my
- 4 Collaborative Research Centre for Green Materials on Environmental Technology, Kyushu Institute of Technology, 2-4 Hibikino, Wakamatsu, Kitakyushu, Fukuoka 808-0196, Japan
- * Correspondence: yando@life.kyutech.ac.jp

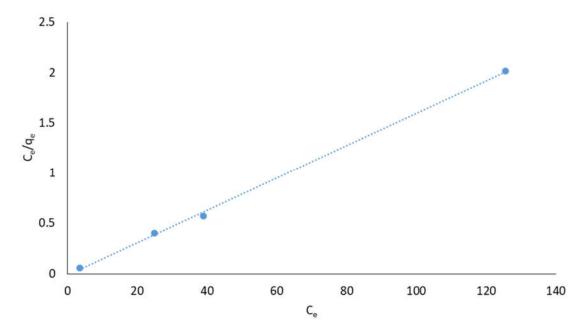
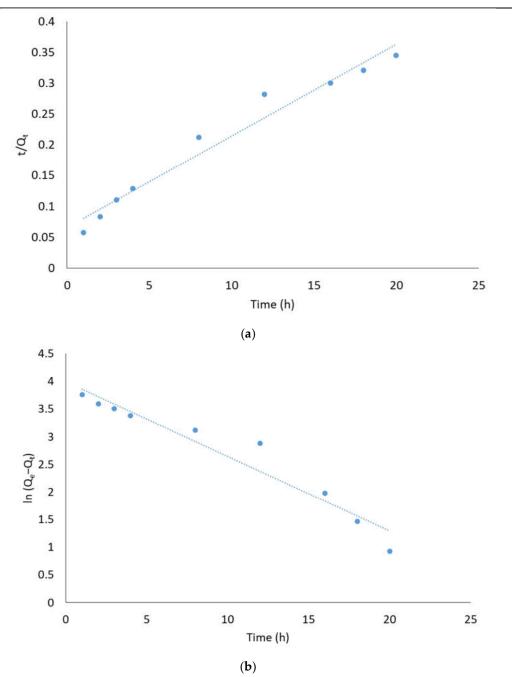


Figure S1. Langmuir isotherm model linear fitting curve for MB adsorption on EFB-FBC (C = 125, 150, 175 and 250 mg/L, contact time = 24 h, temperature = 30 °C, dosage = 2 g/L)











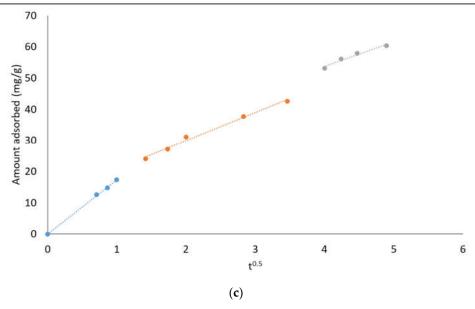


Figure S2. Methylene blue kinetic adsorption data for EFB-FBC fitted for **(a)** pseudo-first order **(b)** pseudo-second order and **(c)** intraparticle diffusion kinetic models.