
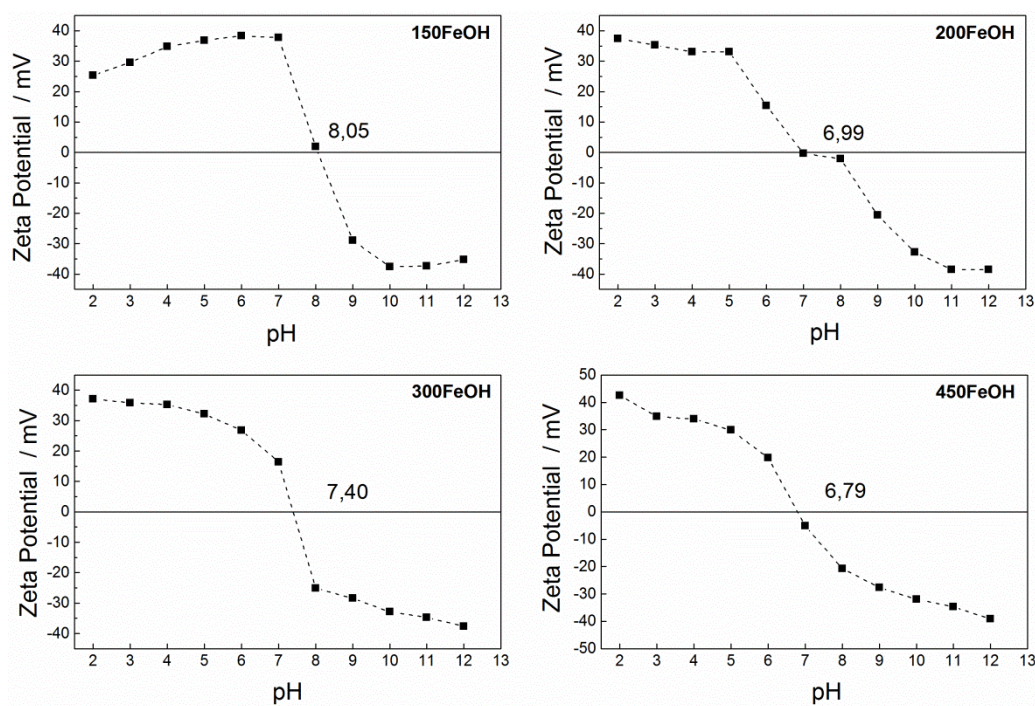


Controlled Dehydration of $\text{Fe}(\text{OH})_3$ to Fe_2O_3 : Developing Mesopores with Complexing Iron Species for the Adsorption of β -Lactam Antibiotics*Paula S. Pinto,^a Giovani D. Lanza,^a José D. Ardisson^b and Rochel M. Lago *^a**^aDepartamento de Química, Universidade Federal de Minas Gerais, 31270-901 Belo Horizonte-MG, Brazil**^bLaboratório de Física Aplicada, Centro de Desenvolvimento da Tecnologia Nuclear (CDTN/CNEN), 31270-901 Belo Horizonte-MG, Brazil***Figure S1.** Zeta potential titration for 150FeOH, 200FeOH, 300FeOH and 450FeOH.

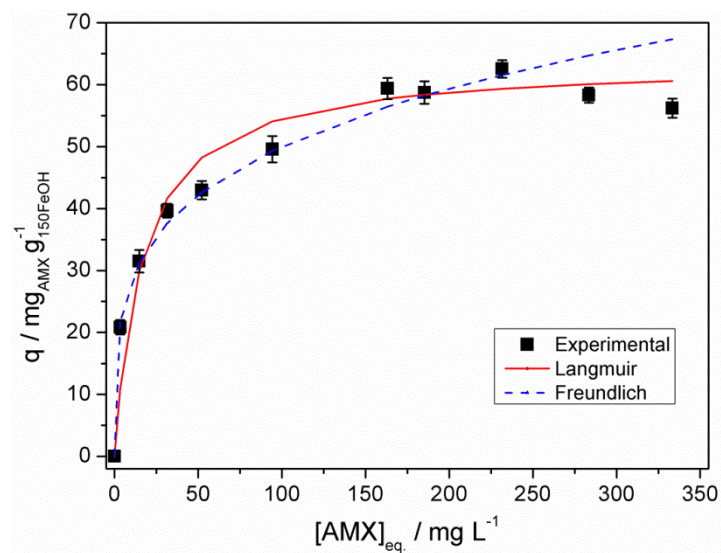


Figure S2. Adsorption isotherm of amoxicillin on 150FeOH at 25 ± 2 °C with Langmuir and Freundlich fittings.

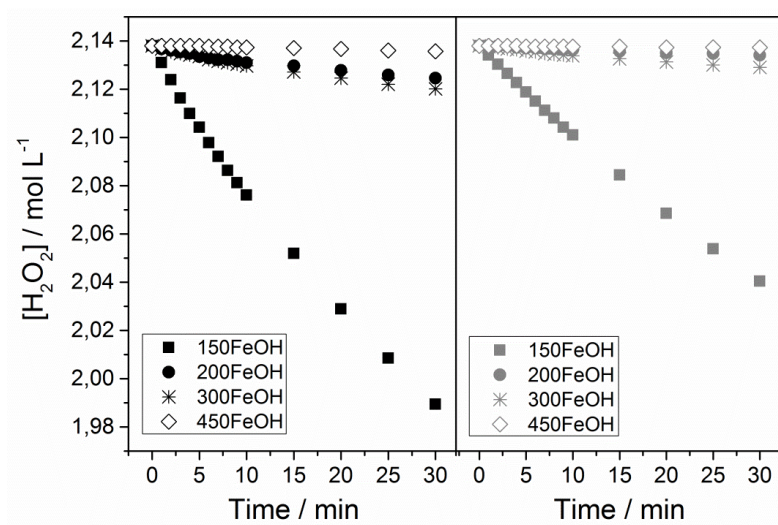


Figure S3. H₂O₂ decomposition kinetics in the absence (black) and presence (gray) of amoxicillin.

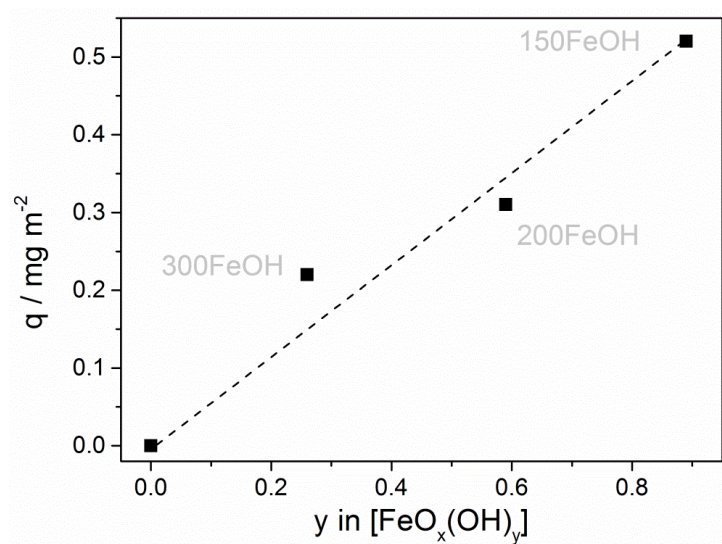


Figure S4. AMX adsorption capacity for the different [FeO_x(OH)_y] compositions.