

# Supplementary Materials

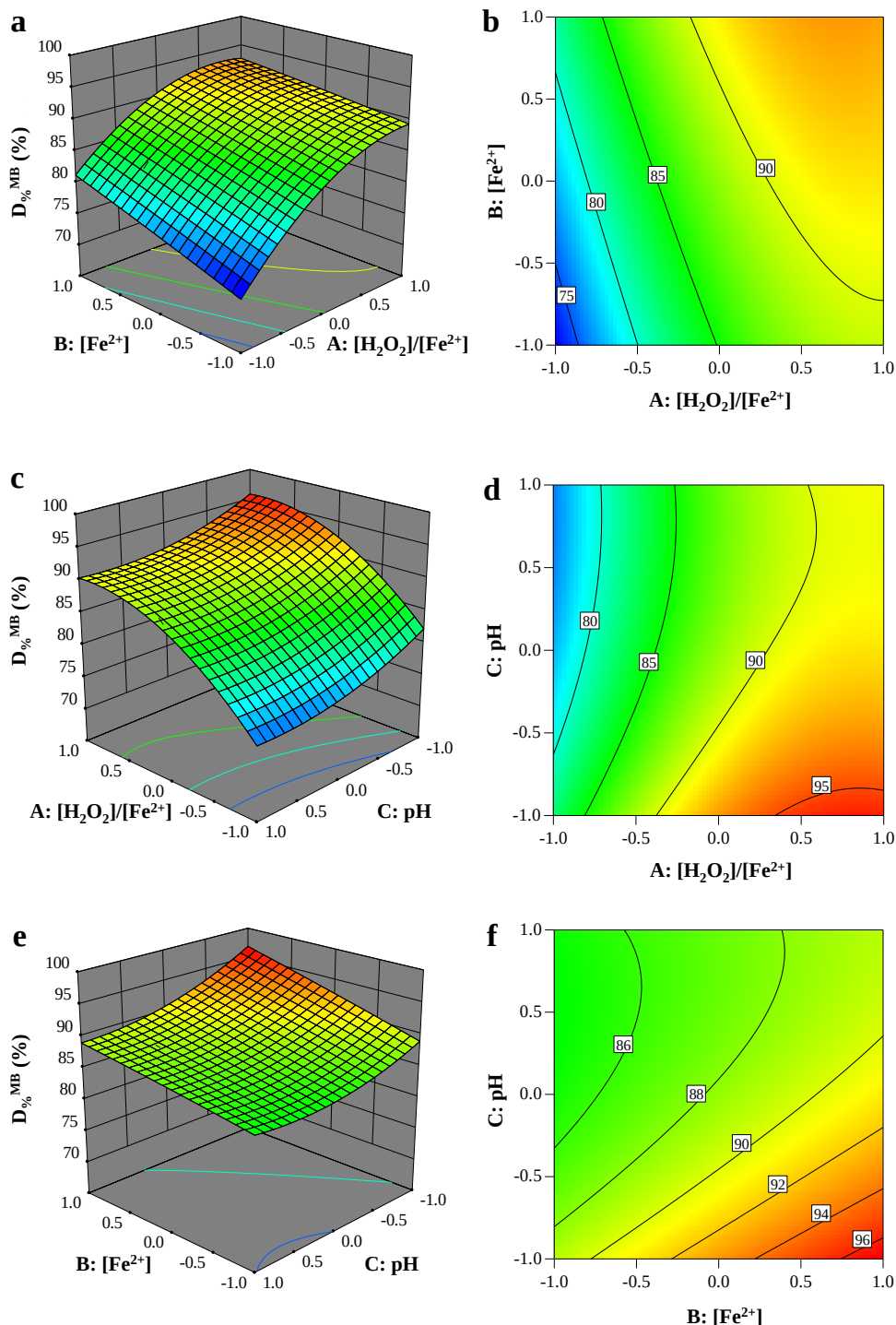
## Optimization of Fenton technology for recalcitrant compounds and bacteria inactivation

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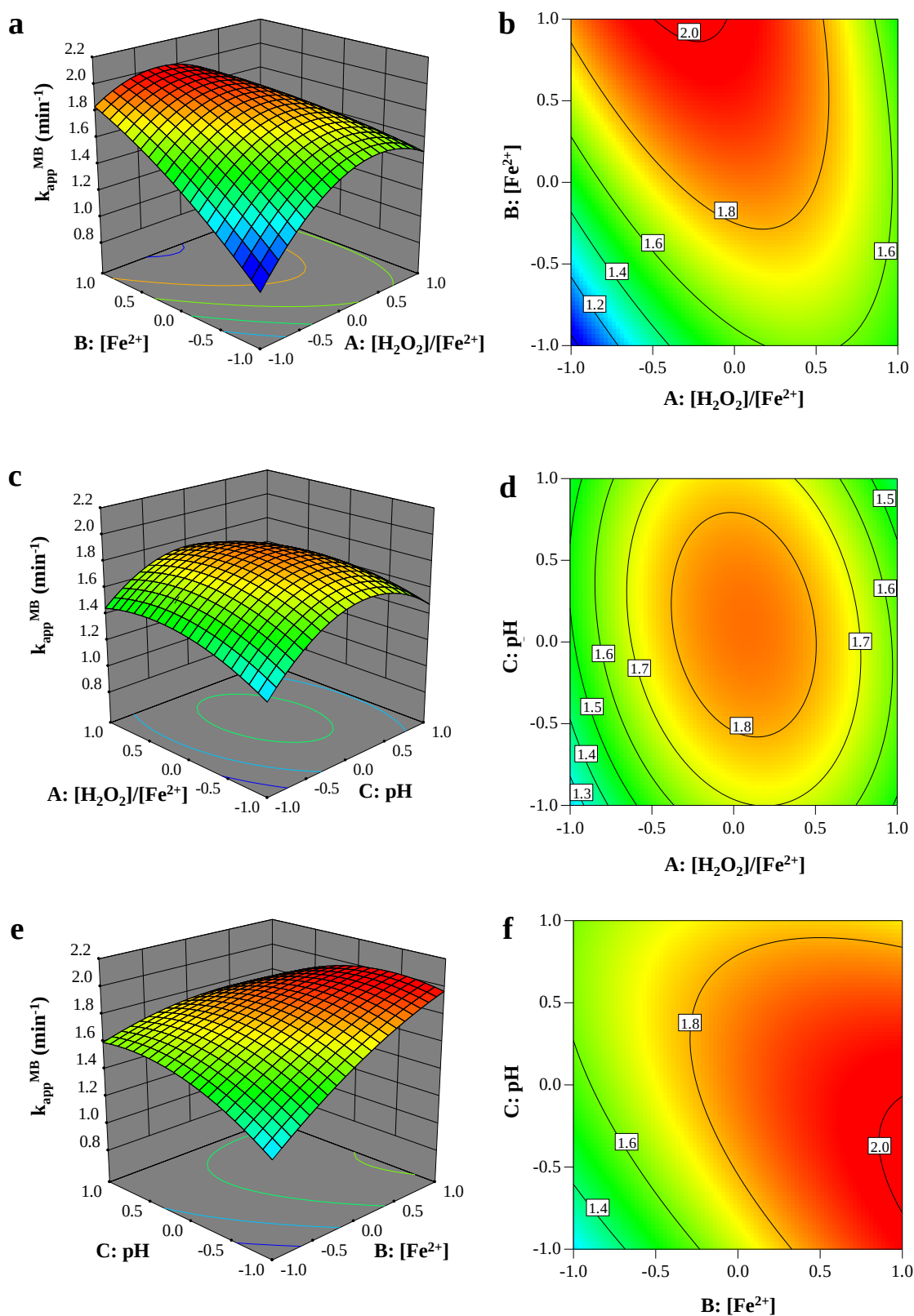
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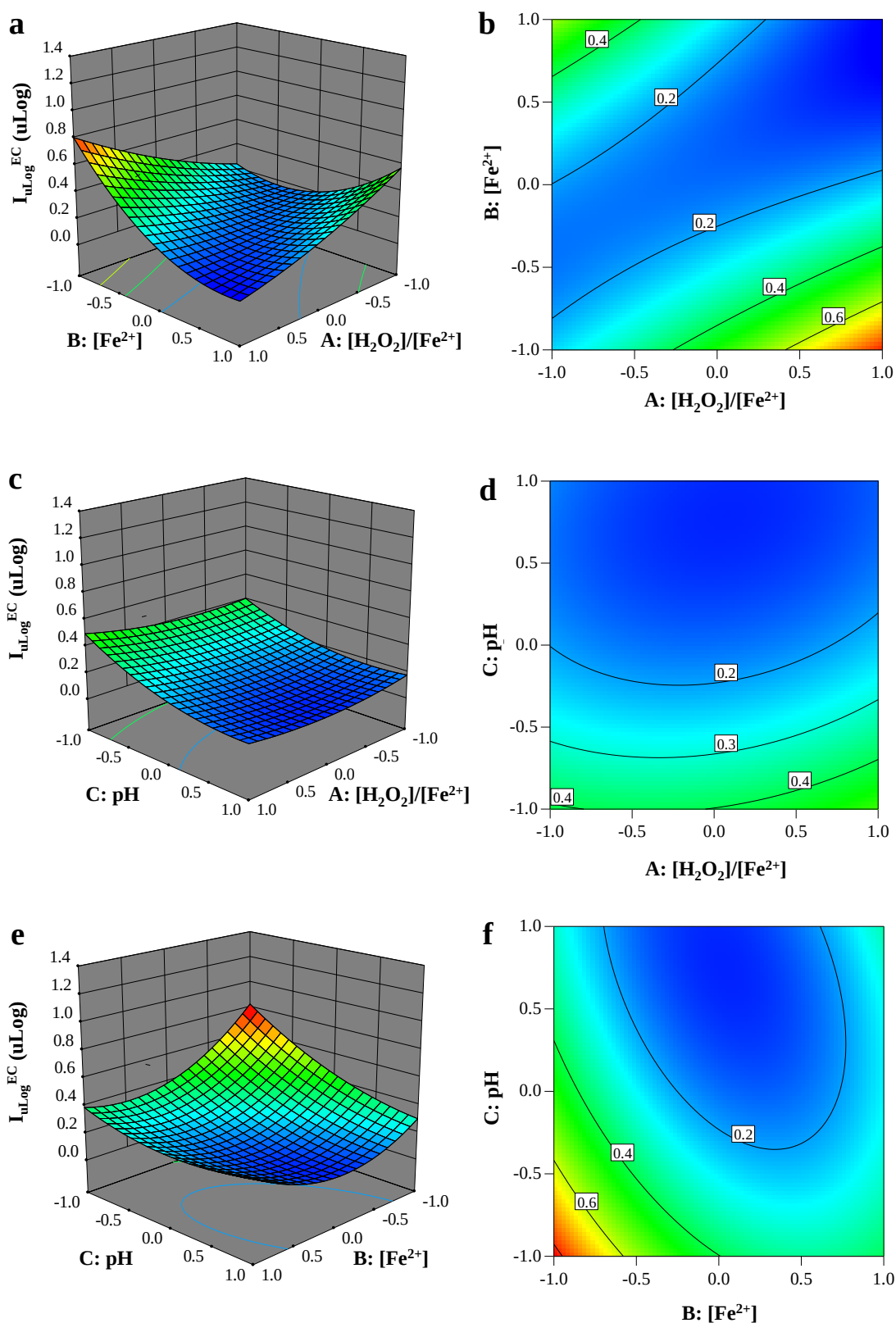
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**Figure S1.** Three-dimensional response surface plots (a, c and e) and their corresponding contour plots (b, d and f) representing the modeled  $D_{\%MB}$  as a function of:  $[H_2O_2]/[Fe^{2+}]$  and  $[Fe^{2+}]$  (a, b), pH and  $[H_2O_2]/[Fe^{2+}]$  (c, d),  $[Fe^{2+}]$  and pH (e, f) at central point values of other parameters.



**Figure S2.** Three-dimensional response surface plots (a, c and e) and their corresponding contour plots (b, d and f) representing the modeled  $k_{app}^{MB}$  as a function of:  $[H_2O_2]/[Fe^{2+}]$  and  $[Fe^{2+}]$  (a, b), pH and  $[H_2O_2]/[Fe^{2+}]$  (c, d),  $[Fe^{2+}]$  and pH (e, f) at central point values of other parameters.



**Figure S3.** Three-dimensional response surface plots (a, c and e) and their corresponding contour plots (b, d and f) representing the modeled  $I_{ulog}^{EC}$  as a function of:  $[H_2O_2]/[Fe^{2+}]$  and  $[Fe^{2+}]$  (a, b), pH and  $[H_2O_2]/[Fe^{2+}]$  (c, d),  $[Fe^{2+}]$  and pH (e, f) at central point values of other parameters.