

Supplementary Information

Heteropoly Tungstate Supported on Metal Oxide Catalysts for Liquid Phase Oxidation of Benzyl Alcohol with Hydrogen Peroxide

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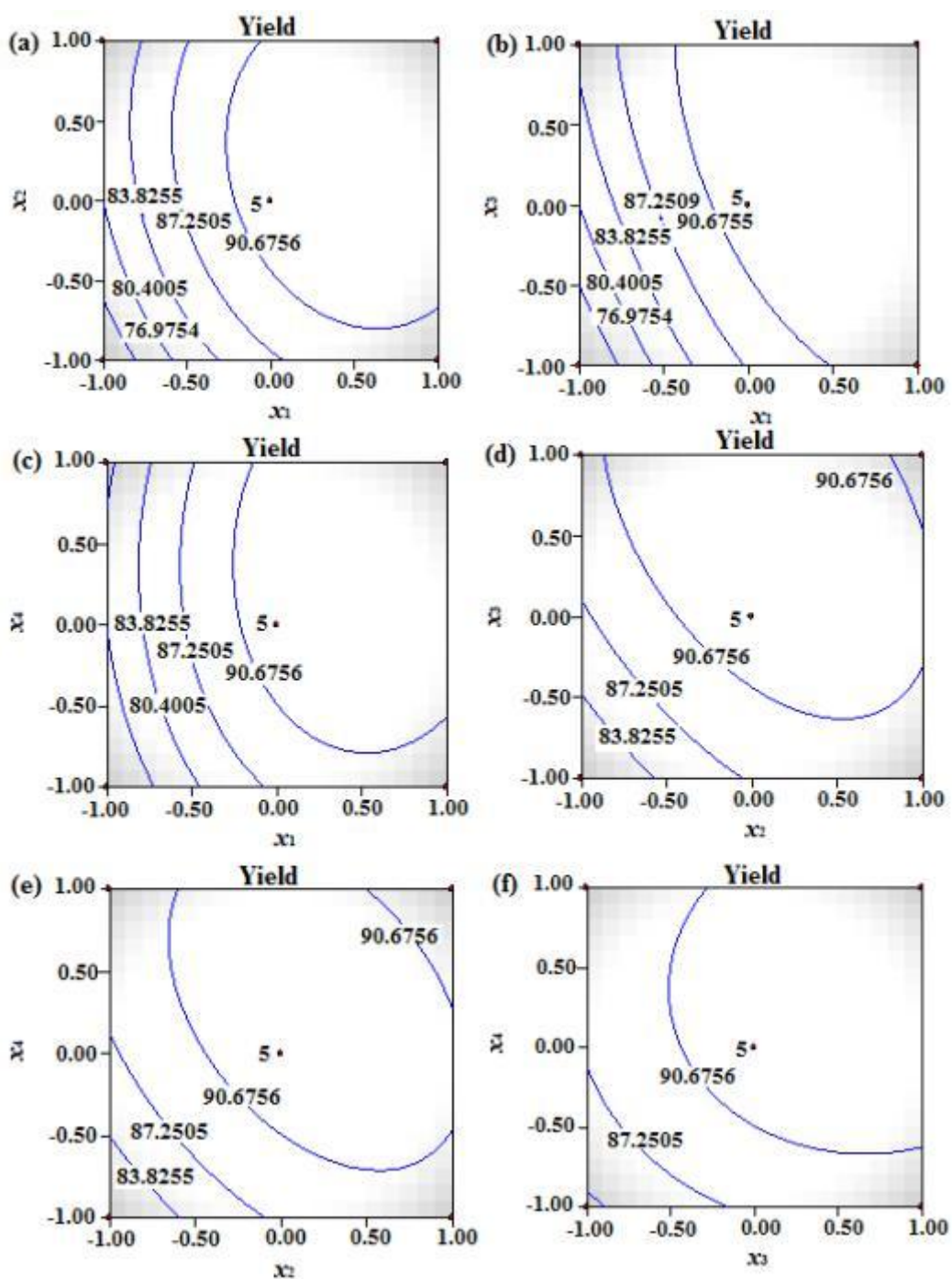


Figure S1. Contour plots showing variations between a pair of experimental variables (Table 1) on the predicted values of benzaldehyde yield while keeping other variable at a constant level of 0. Notations: x_1 : catalyst amount, x_2 : BzOH/H₂O₂ molar ratio, x_3 : reaction time, x_4 : water amount.

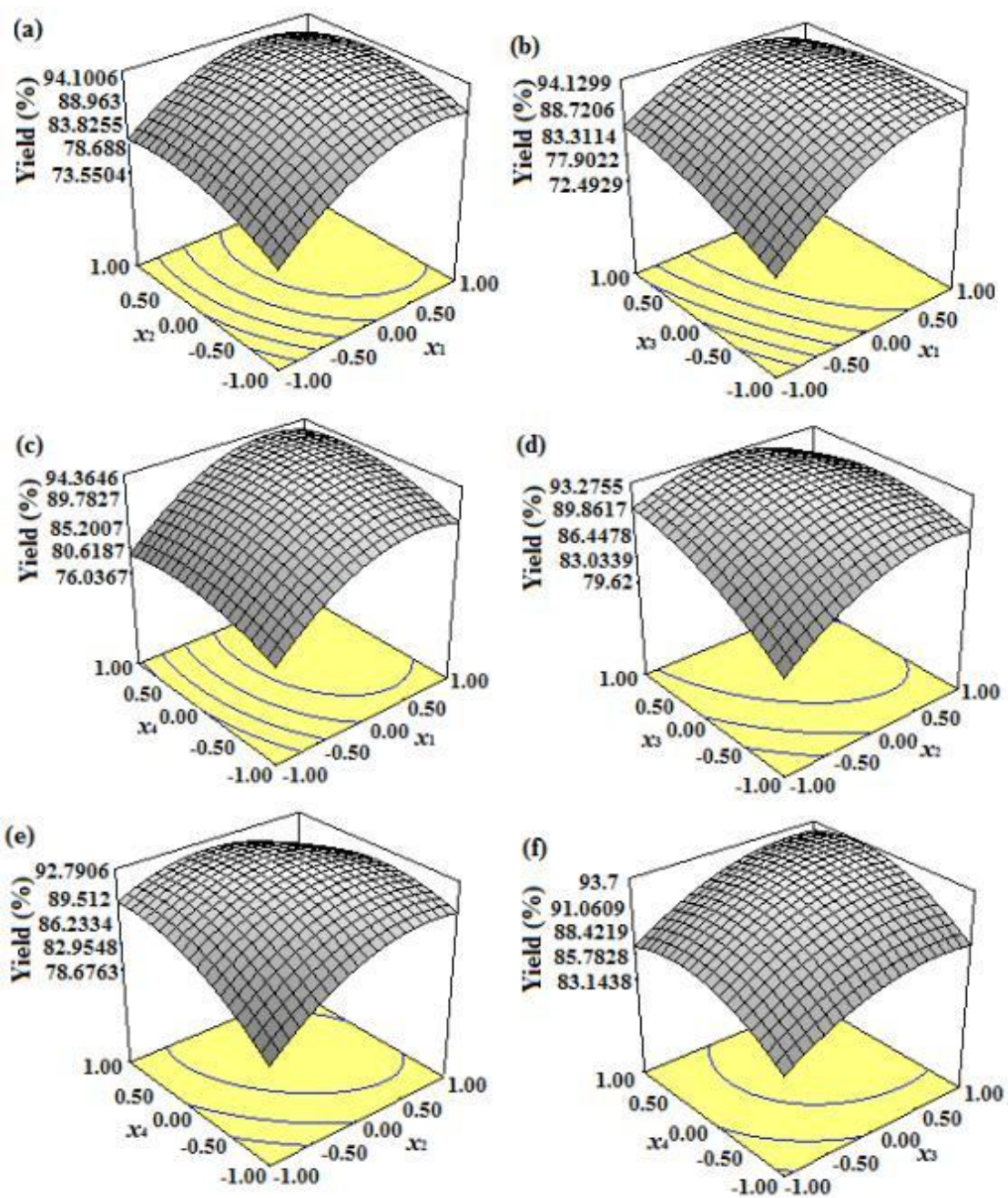


Figure S2. Similar to Figure S1, but showing 3D response surface plots between a pair of experimental variables (Table 1) on the predicted values of benzaldehyde yield while keeping other variable at a constant level of 0.

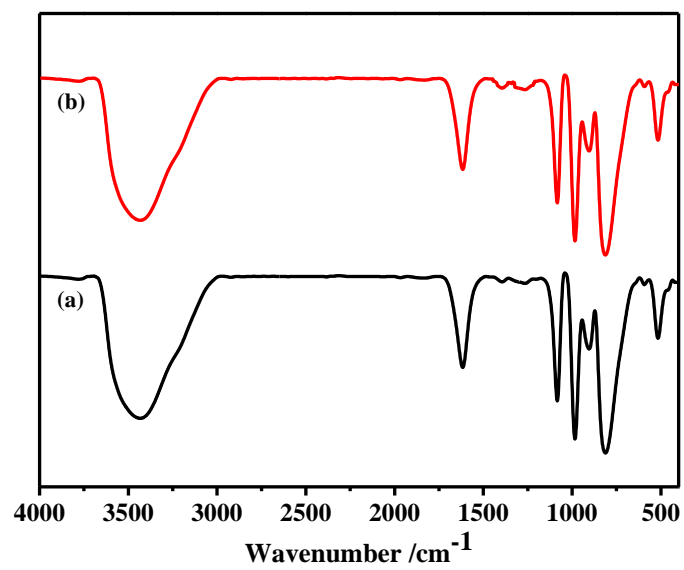


Figure S3. FTIR spectra of (a) fresh and (b) spent 20HPW/CeO₂ catalyst regenerated after six consecutive runs.