

## Supporting information

# Plasmon-Enhanced CO<sub>2</sub> Reduction to Liquid Fuel via Modified UiO-66 Photocatalysts

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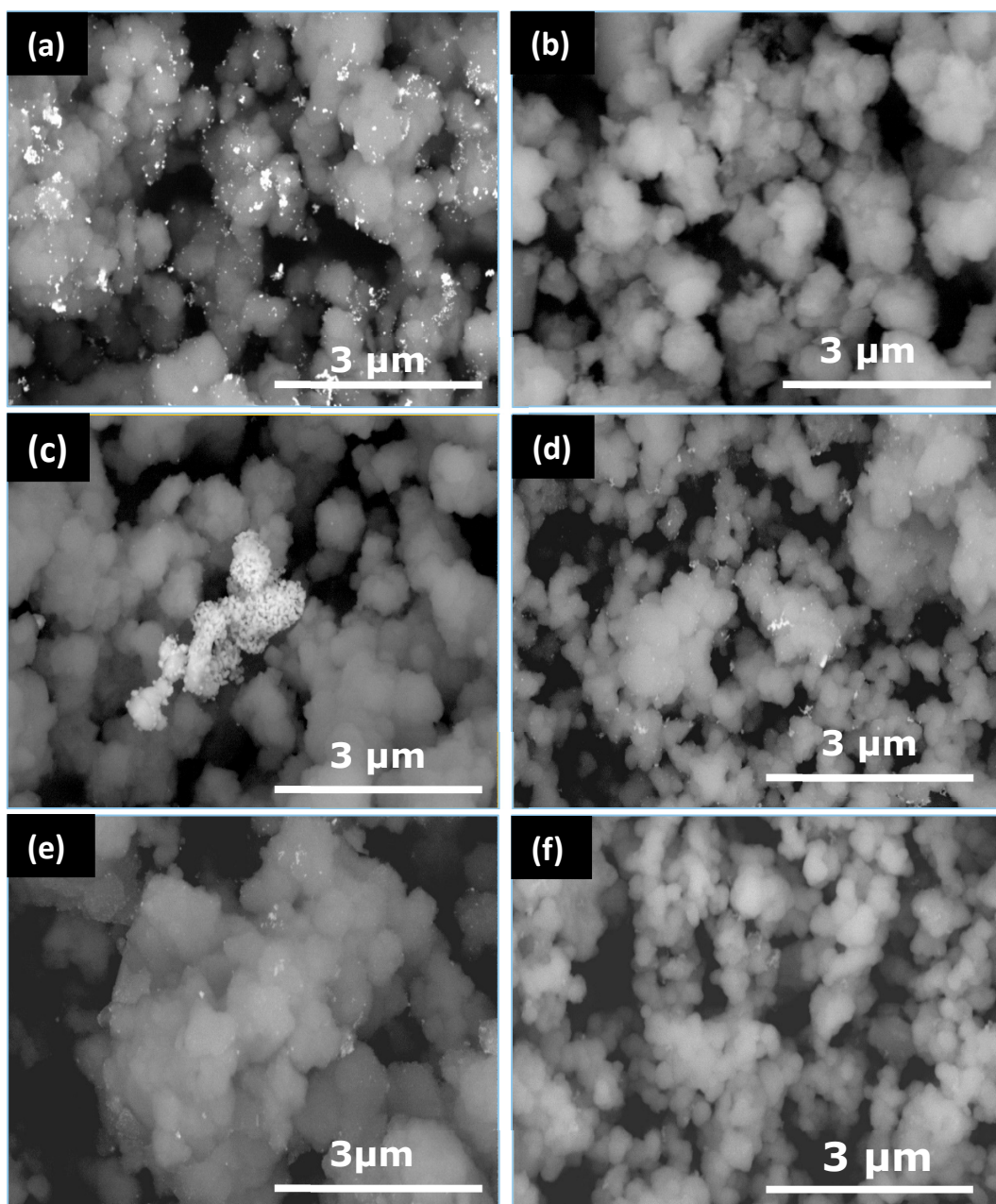


Figure S1: SEM Images of Metal-Functionalized UiO-66 Samples: (a) Au@UiO-66, (b) Cu@UiO-66, (c) Ag@UiO-66, (d) Pd@UiO-66, (e) Pt@UiO-66, and (f) Ni@UiO-66.

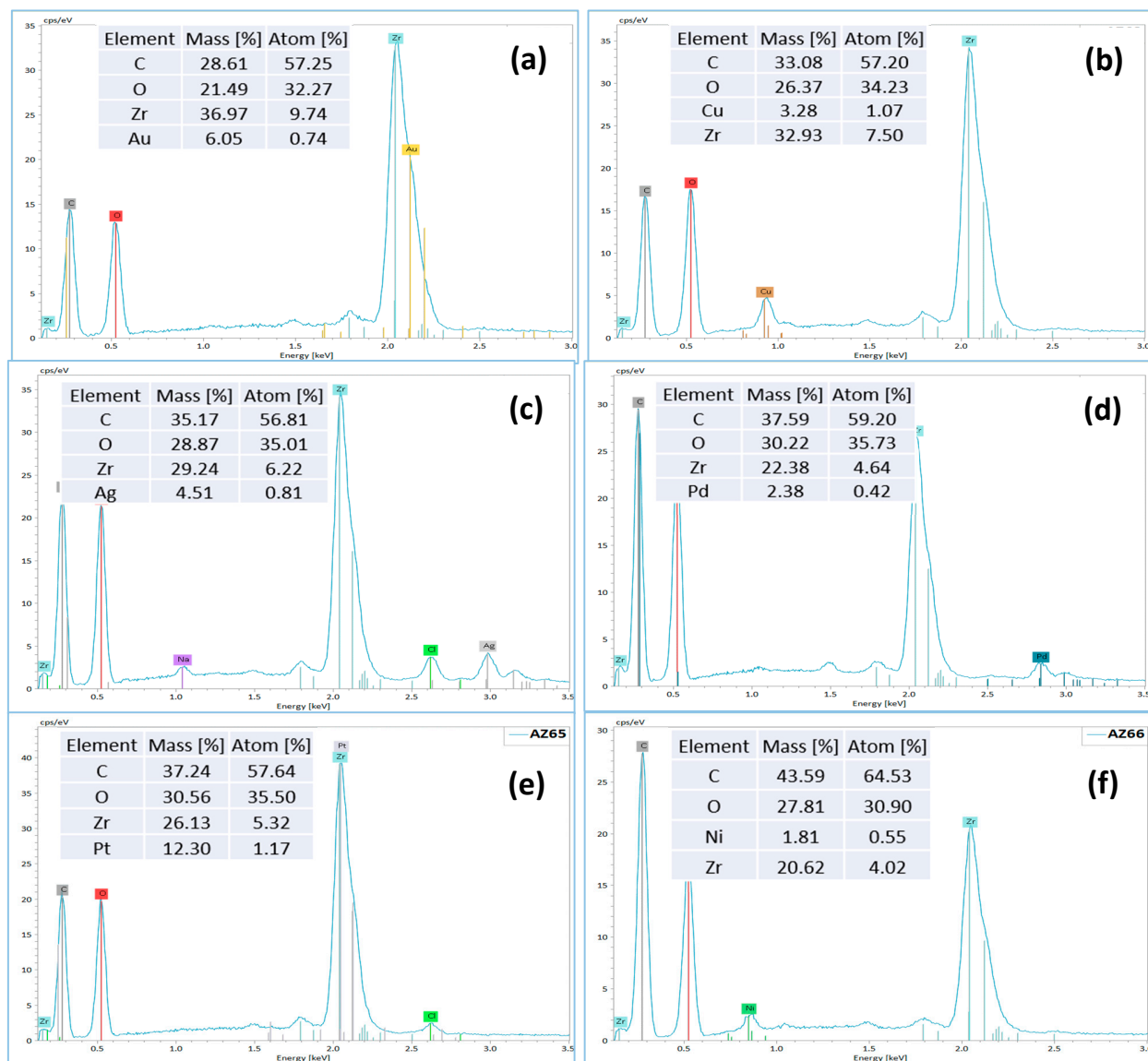


Figure S2: EDS Chemical Spectra of Metal-Functionalized UiO-66: (a) Au@UiO-66, (b) Cu@UiO-66, (c) Ag@UiO-66, (d) Pd@UiO-66, (e) Pt@UiO-66, and (f) Ni@UiO-66.

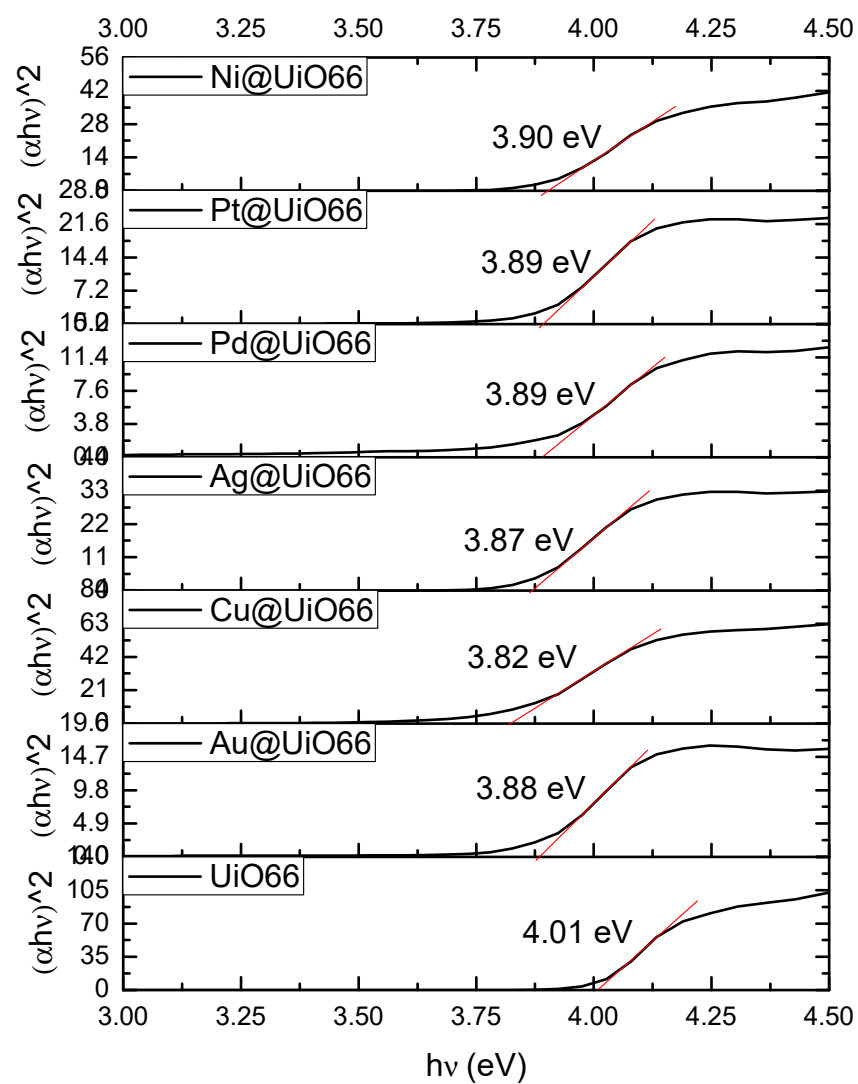
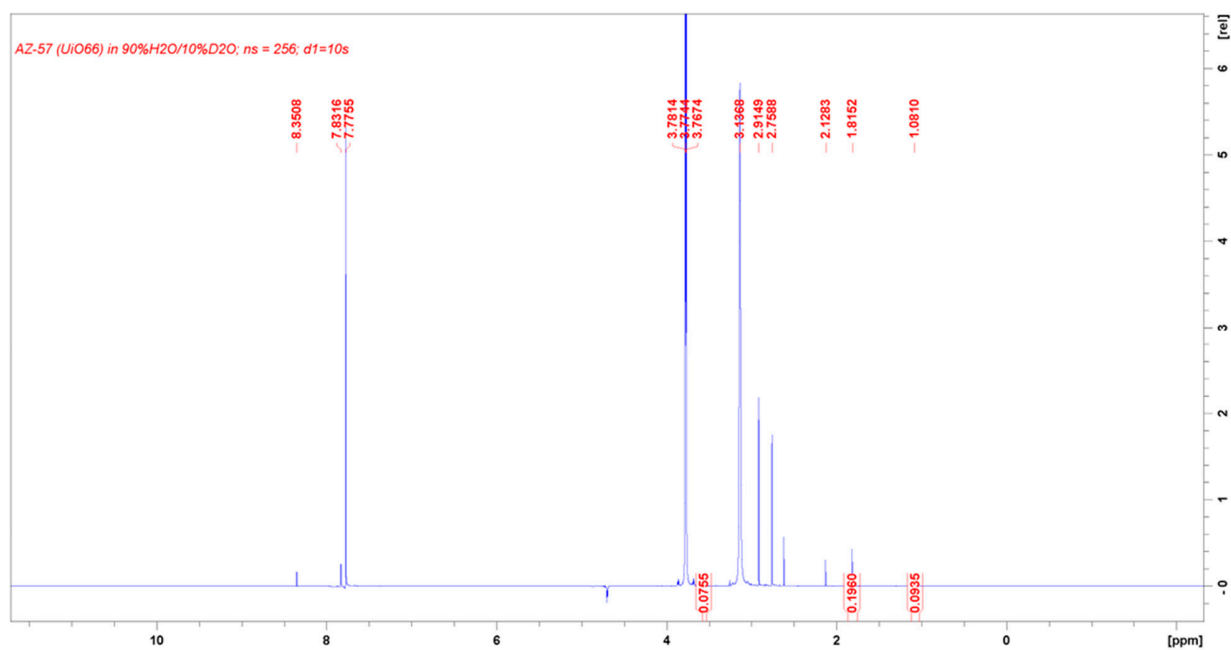
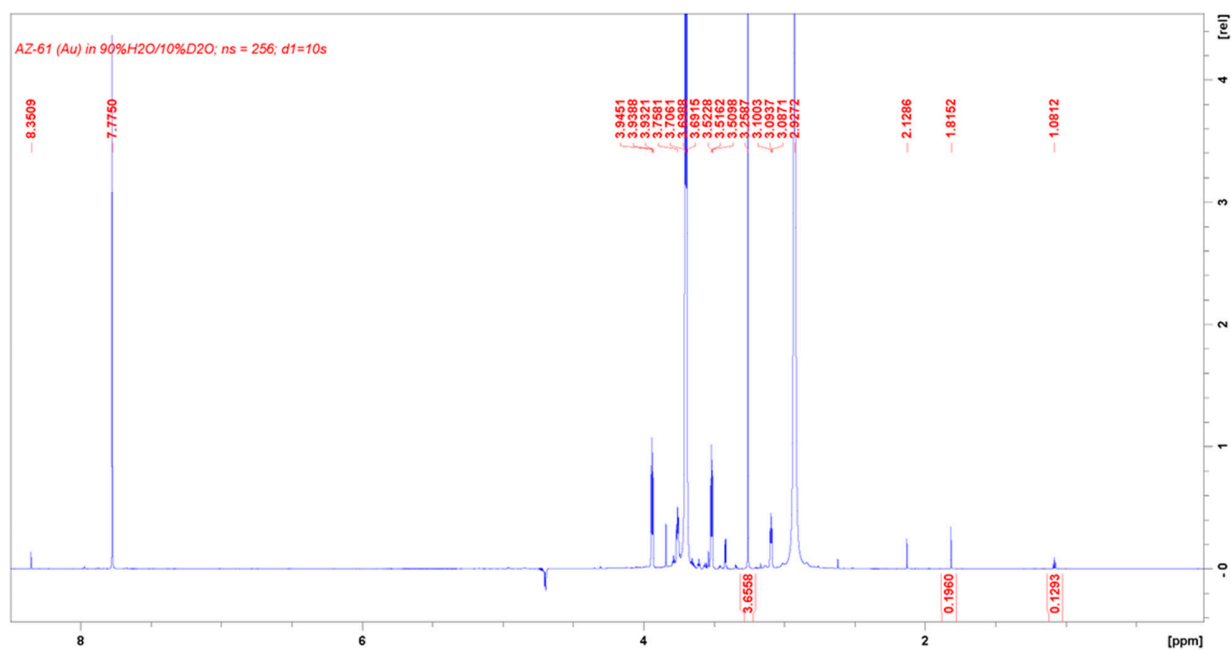


Figure S3. Tauc Plots of Investigated Metal-Organic Framework (MOF) Samples for Band Gap Analysis.

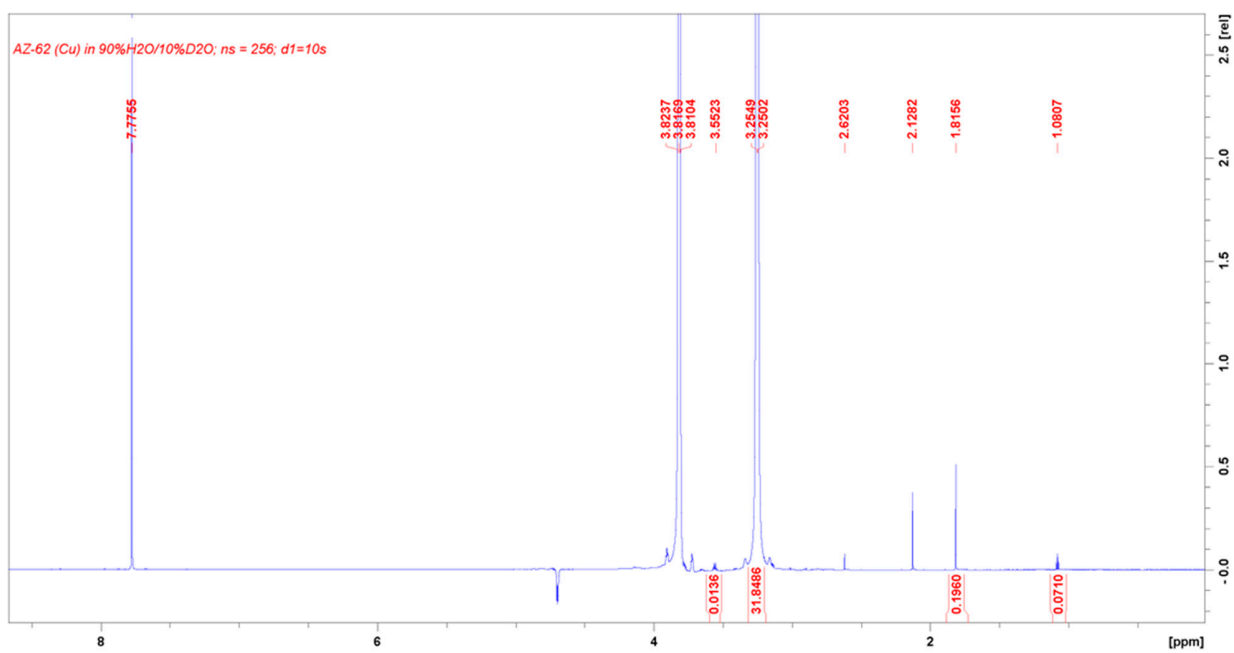
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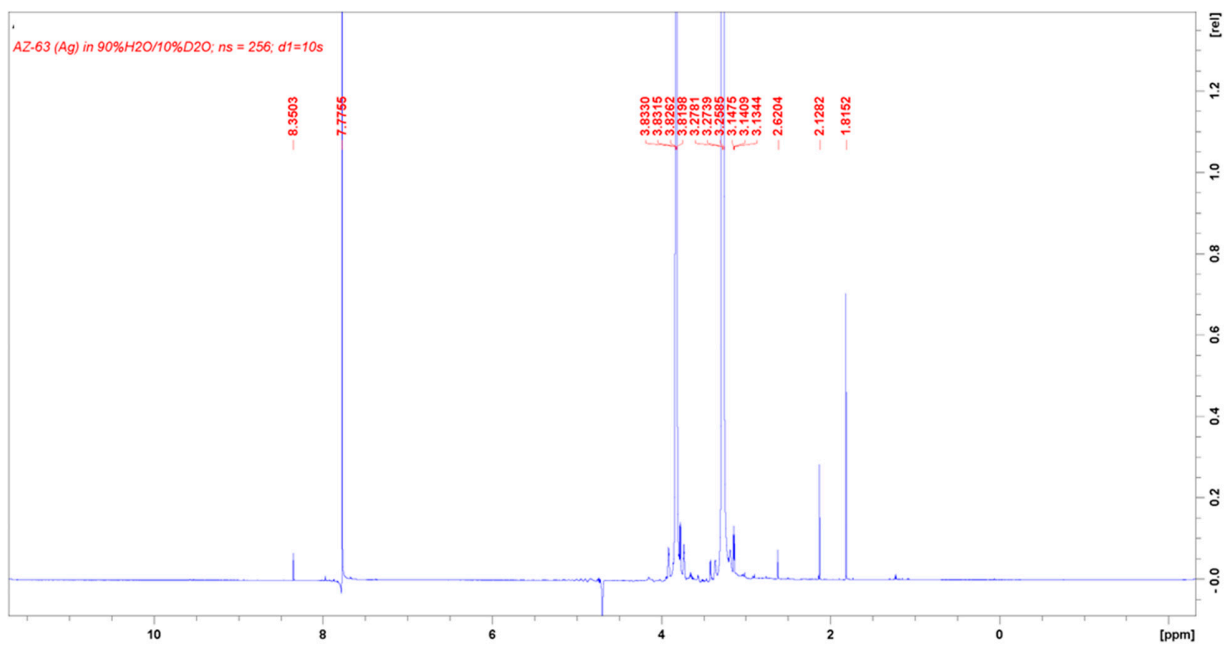
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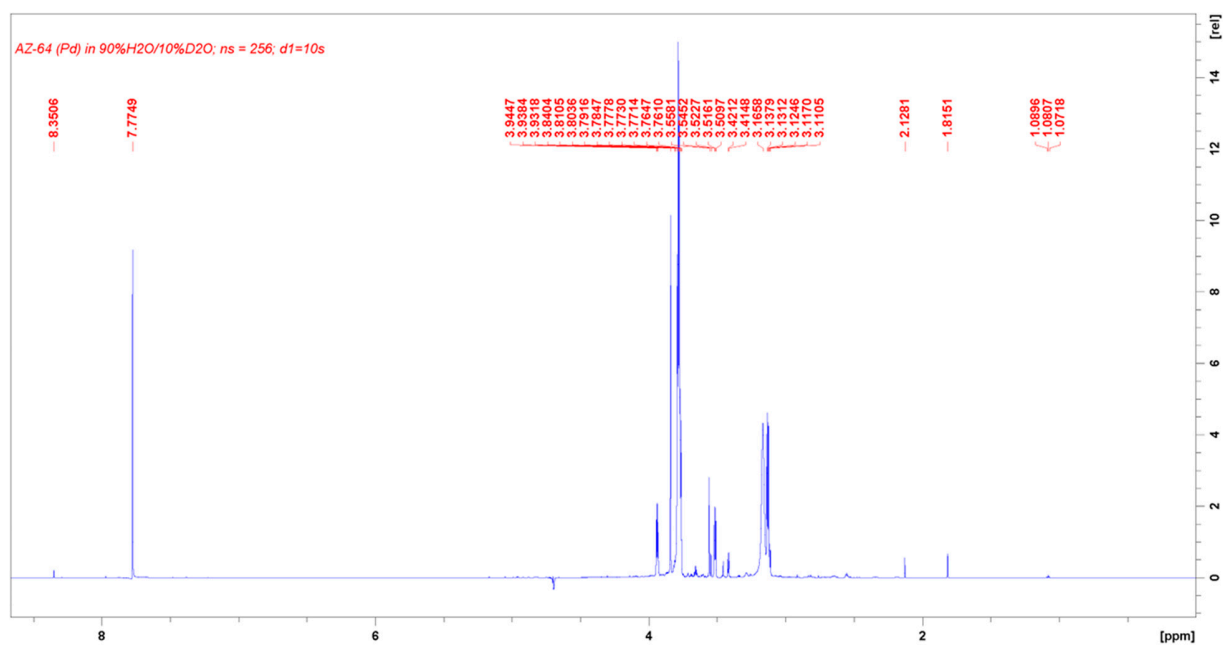
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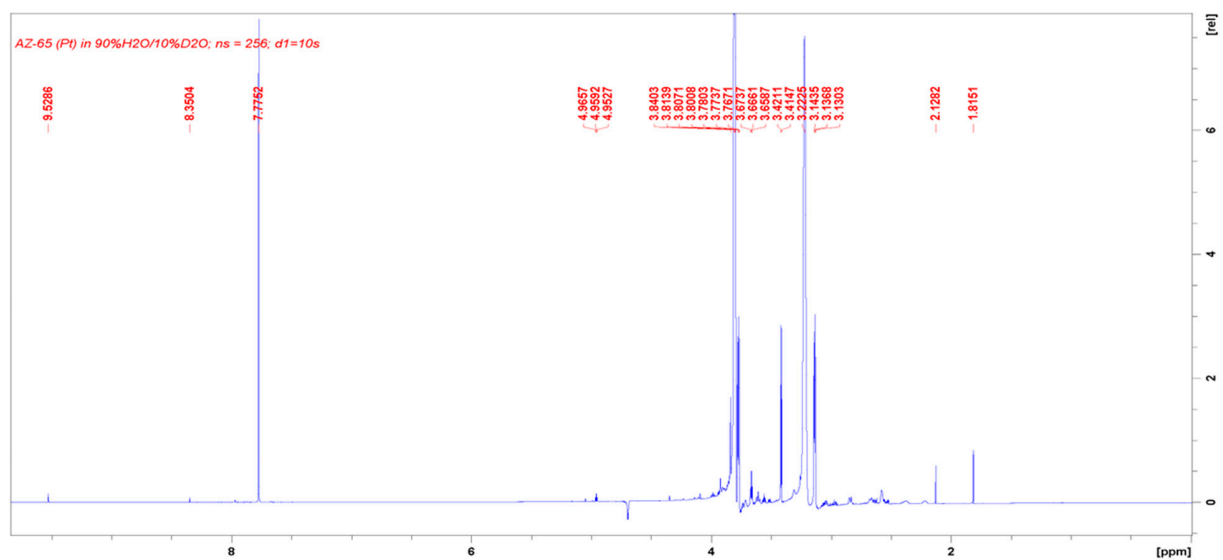
d)



e)



f)



g)

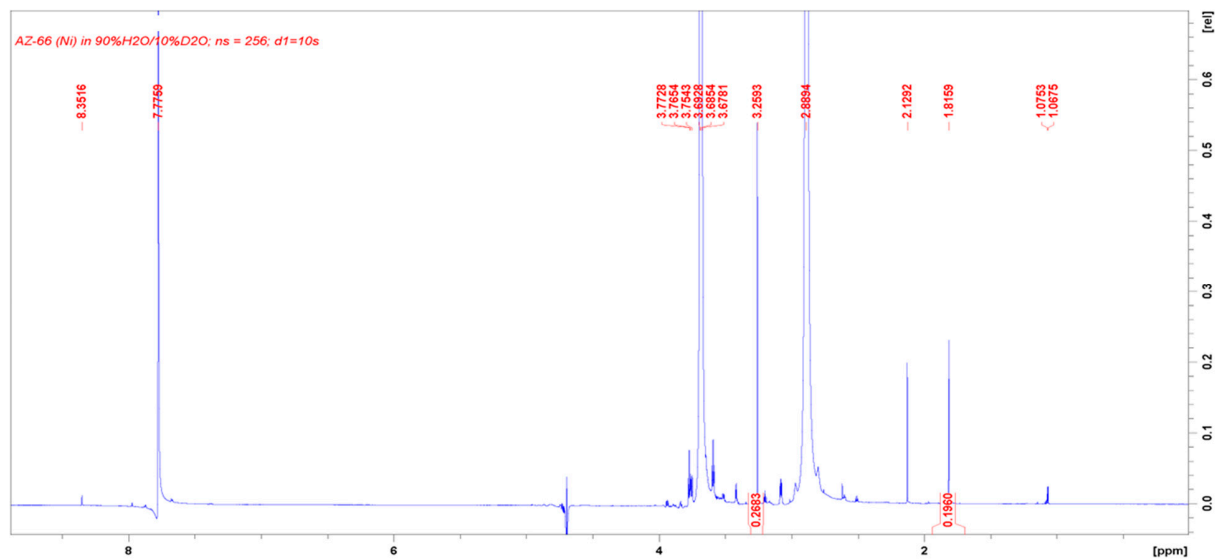


Figure S4: <sup>1</sup>H NMR Spectra of Reaction Solutions Catalyzed by: (a) UiO-66, (b) Au@UiO-66, (c) Cu@UiO-66, (d) Ag@UiO-66, (e) Pd@UiO-66, (f) Pt@UiO-66, and (g) Ni@UiO-66.