

Microwave versus Batch Reactor promoted Synthesis of Fuel Additives using Graphitic Carbon Nitride Supported Catalysts

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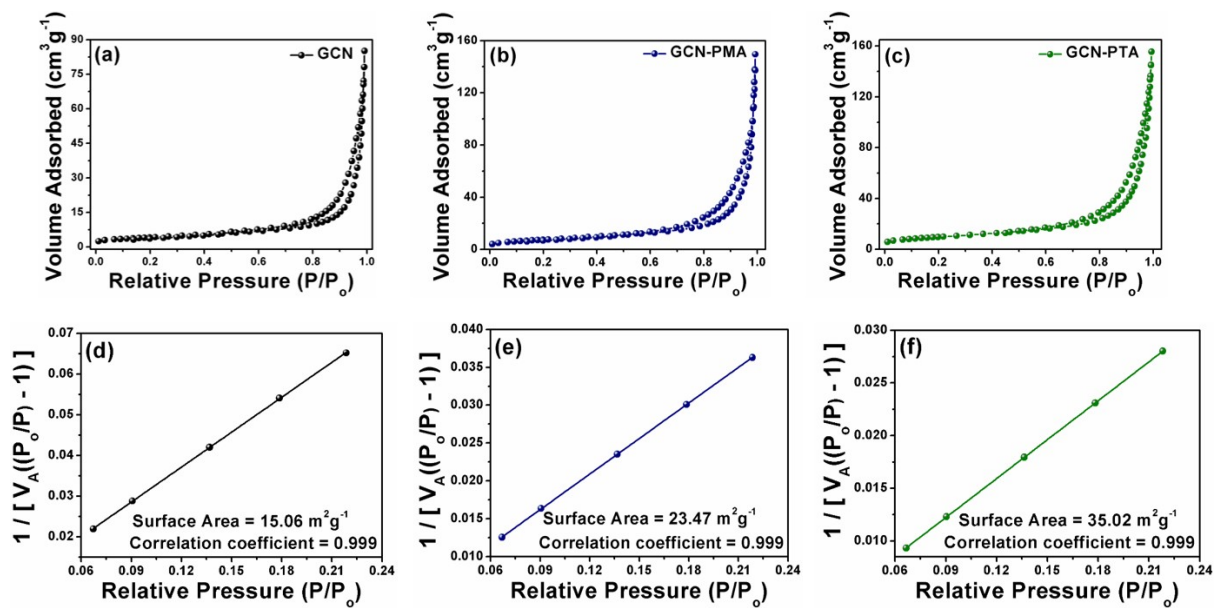


Figure S1: (a, b, c) N_2 adsorption desorption isotherm curves and (d, e, f) BET surface area plots of GCN, GCN-PMA and GCN-PTA.

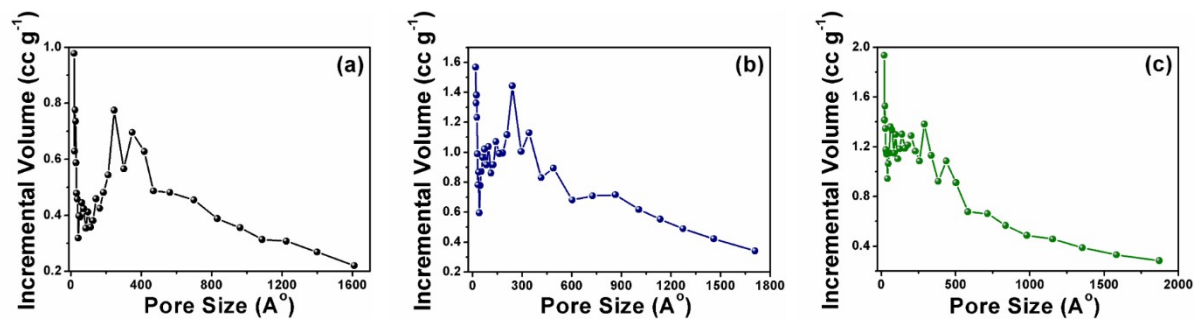


Figure S2: Pore size curves of (a) GCN, (b) GCN-PMA and (c) GCN-PTA.

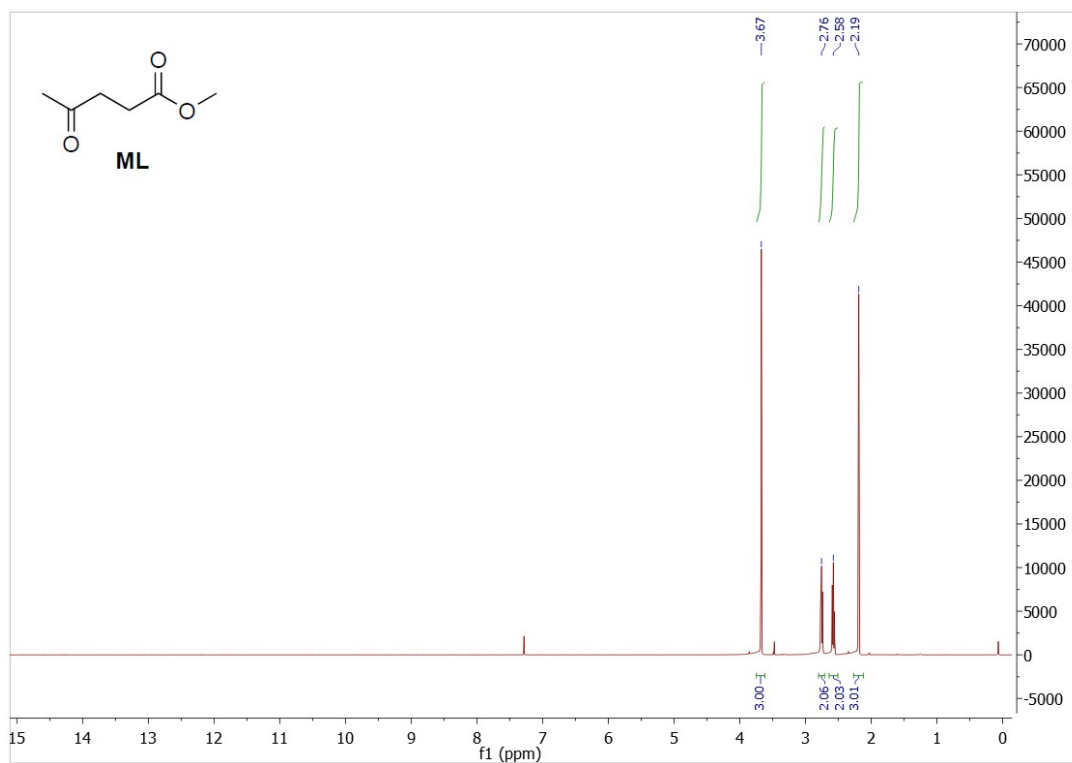


Figure S3: $^1\text{H NMR}$ of methyl levulinate. $^1\text{H NMR}$ (400 MHz, 298 K, CDCl_3) δ 3.67 (s, 3H), 2.76 (t, 2H), 2.58 (t, 2H), 2.19 (s, 3H).

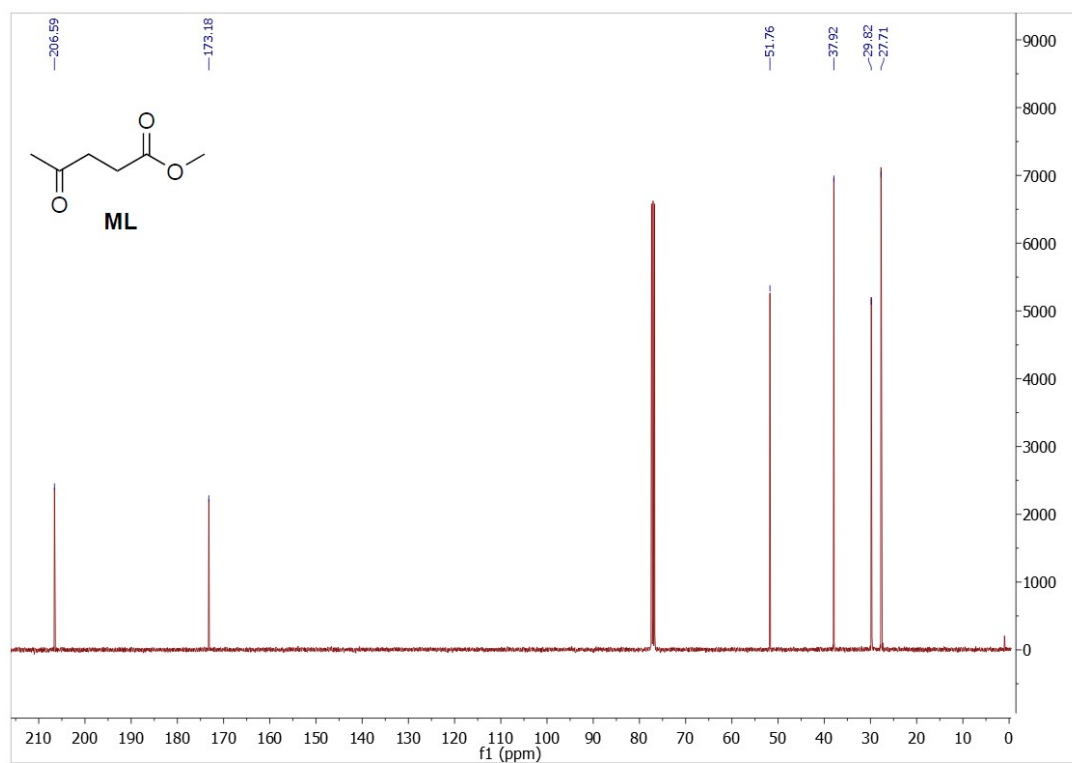


Figure S4: ¹³C NMR of methyl levulinate. ¹³C NMR (101 MHz, 298 K, CDCl₃) δ 206.59, 173.18, 51.76, 37.92, 29.82, 27.71.

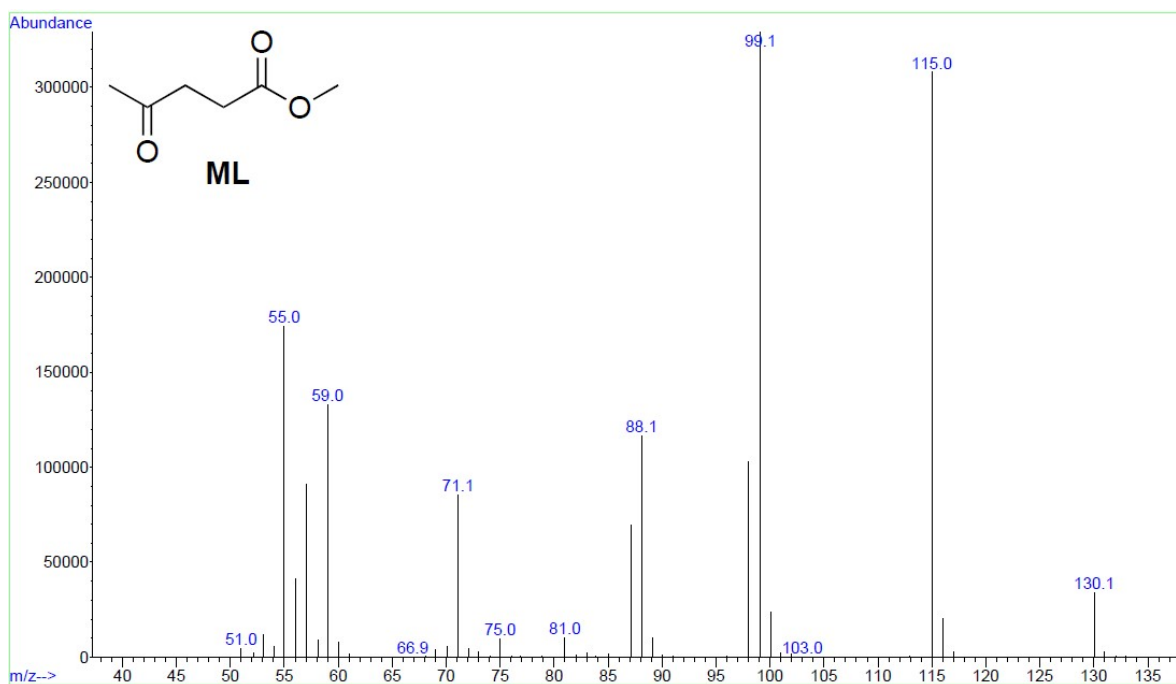


Figure S5: Mass Spectrum of methyl levulinate (EI, 70 eV).

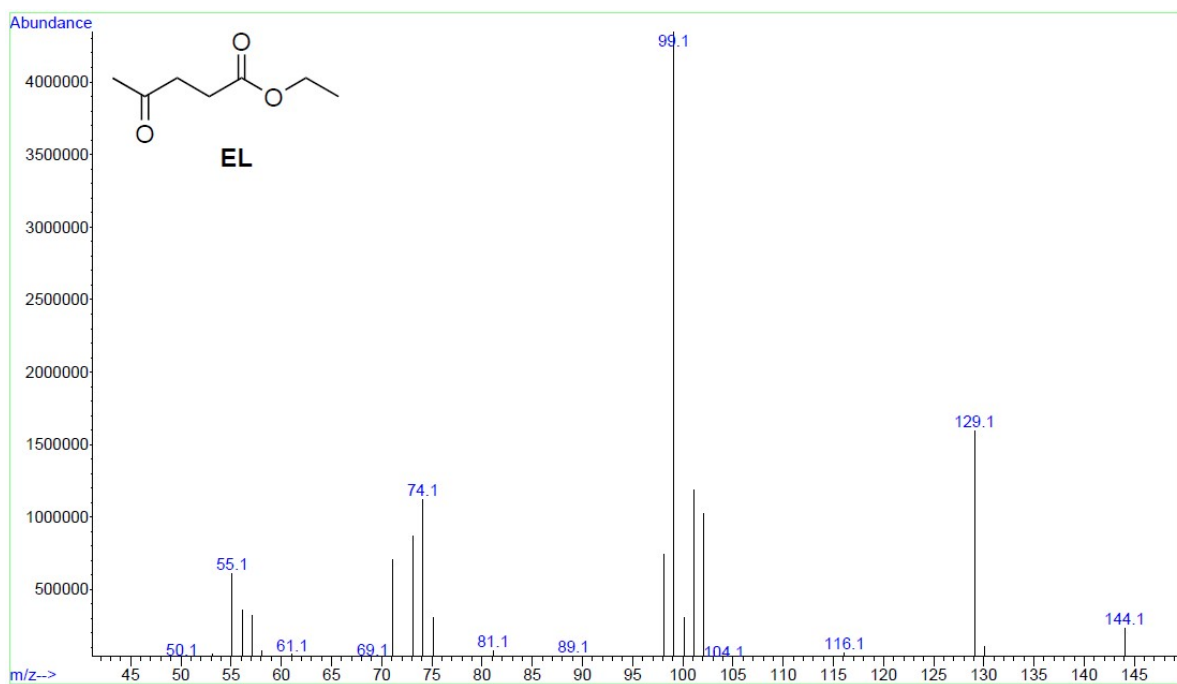


Figure S6: Mass Spectrum of ethyl levulinate (EL) (EI, 70 eV).

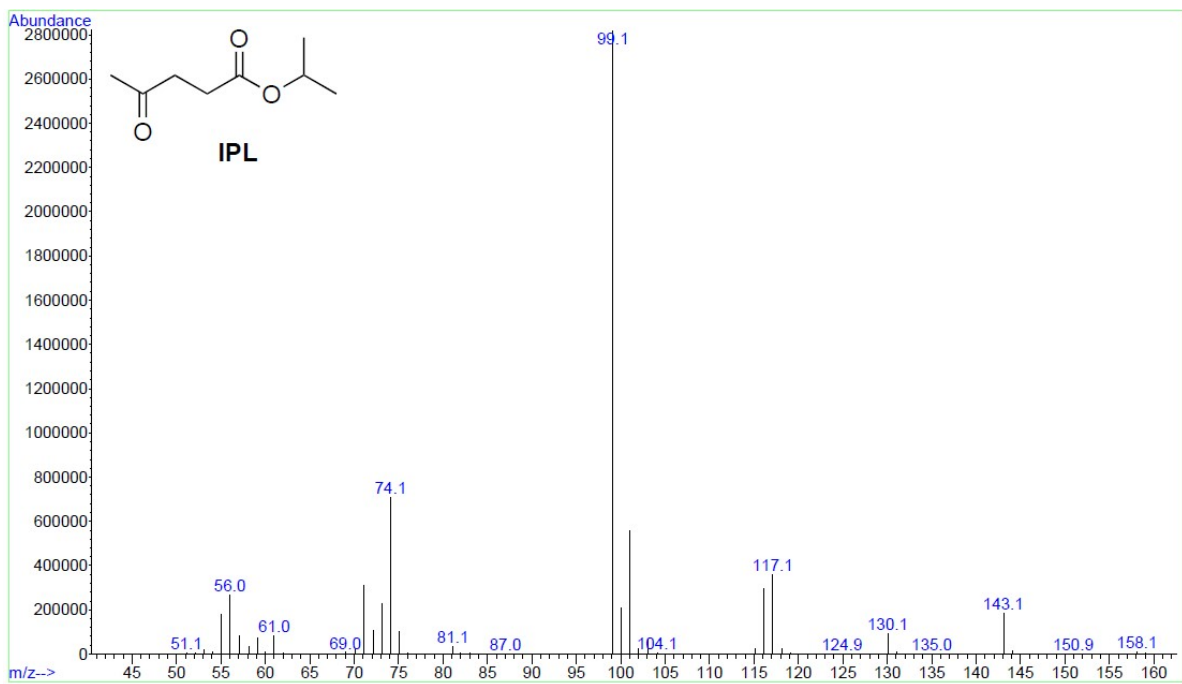


Figure S7: Mass Spectrum of isopropyl levulinate (EI, 70 eV).

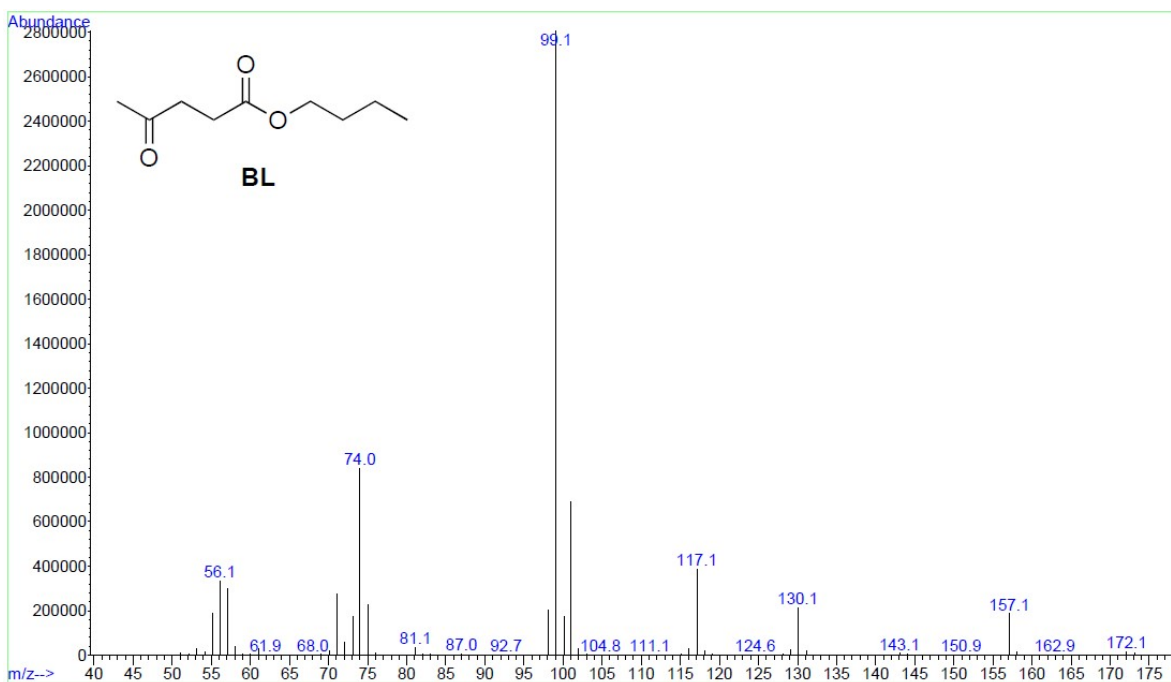


Figure S8: Mass Spectrum of butyl levulinate (EI, 70 eV).

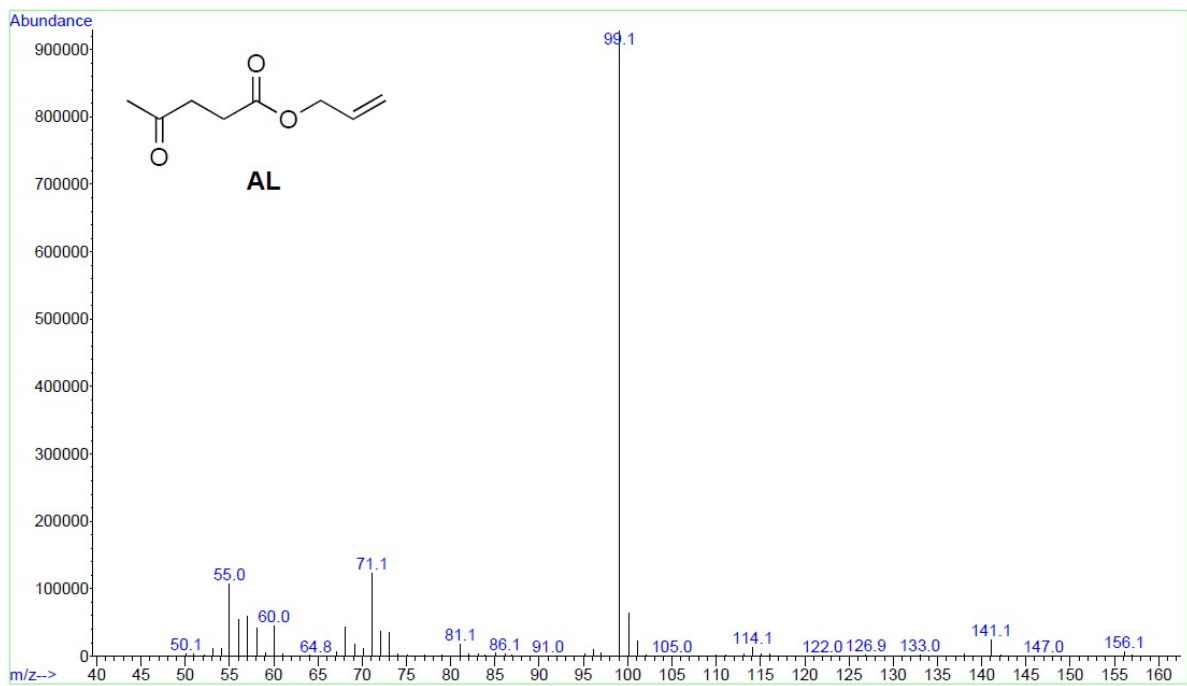


Figure S9: Mass Spectrum of allyl levulinate (EI, 70 eV).