

Supporting information

Table S1. Optimization of reaction variables for the model Knoevenagel condensation reaction ^a

Entry	MOF-PIL-AM dosage (g)	US power (W)	Temp. (°C)	Yield (%) ^b
1	0.02	150	25	100
2	0.02	200	25	100
3	0.02	100	25	92
4	0.03	150	25	100
5	0.01	150	25	80
6	0.02	150	30	100
7	0.02	150	40	100

¹HNMR spectra for selected Knoevenagel condensation products

Sample code: Kn-2

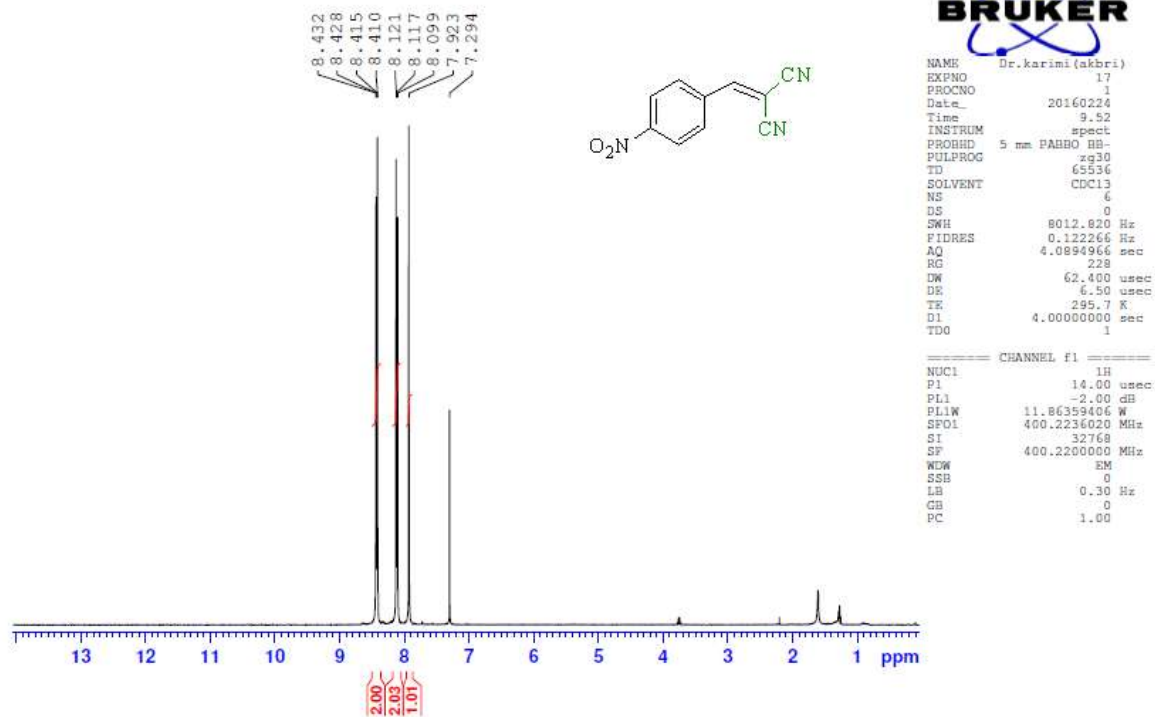


Figure S1. ¹HNMR spectrum of Knoevenagel condensation reaction of malononitrile and 4-nitrobenzaldehyde.

Sample code: Kn-ph

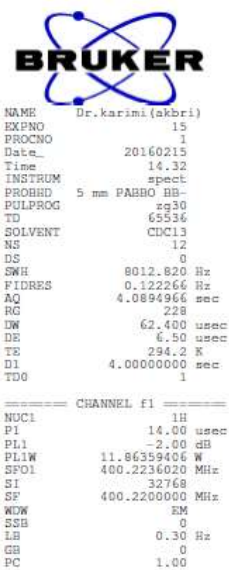
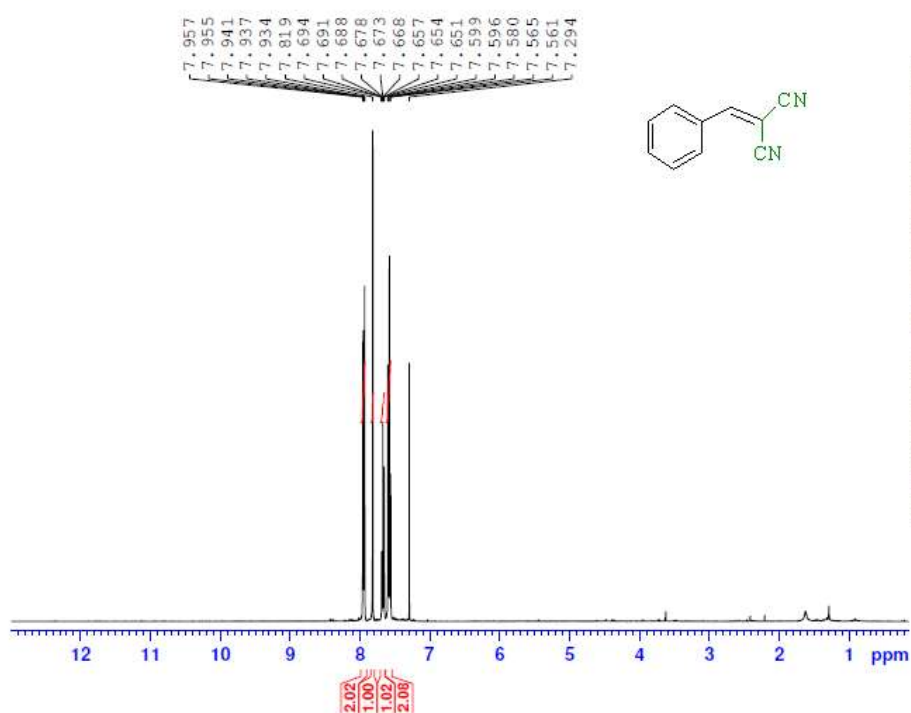


Figure S2. ^1H NMR spectrum of Knoevenagel condensation reaction of malononitrile and benzaldehyde.

Sample code: Kn-8

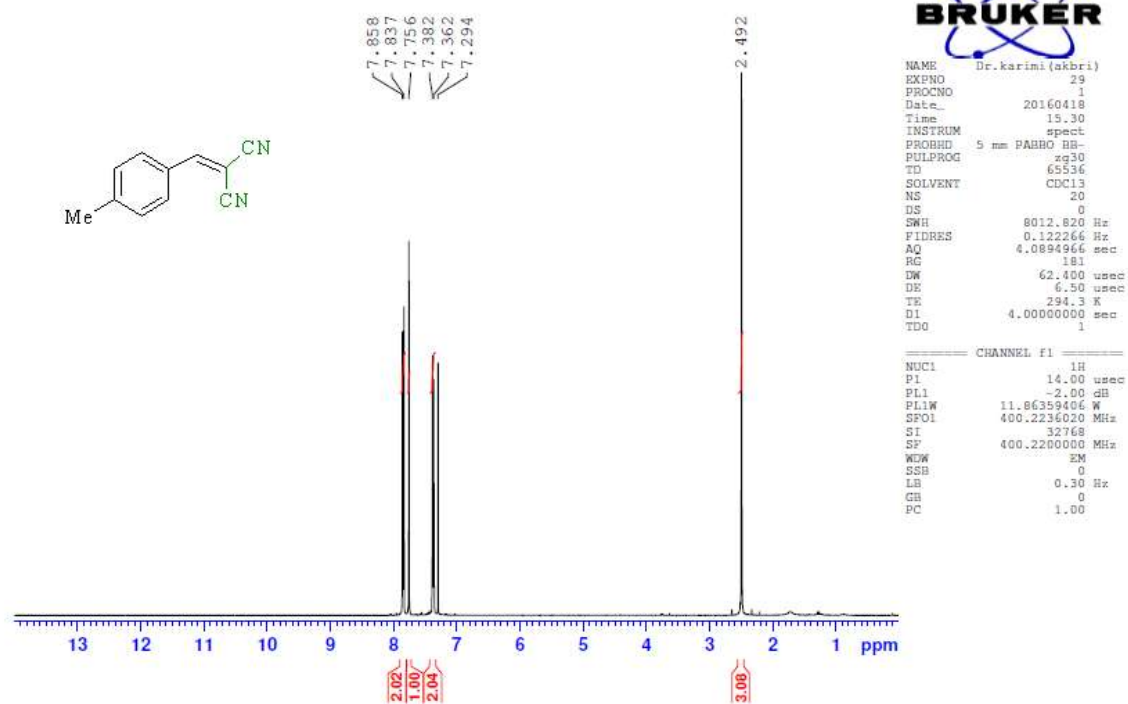


Figure S3. ^1H NMR spectrum of Knoevenagel condensation reaction of malononitrile and 4-methylbenzaldehyde.

Sample code: Kn-7

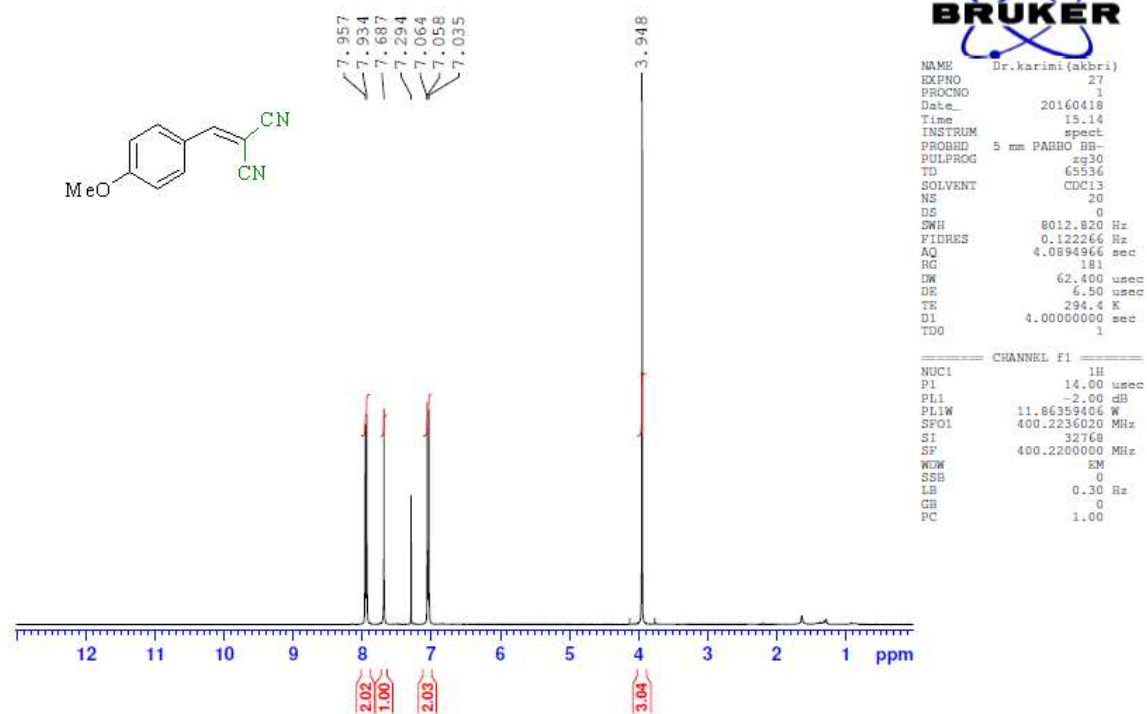


Figure S4. ¹H NMR spectrum of Knoevenagel condensation reaction of malononitrile and 4-methoxybenzaldehyde.

¹³CNMR spectra for selected Knoevenagel condensation products

Sample code:Kn-2

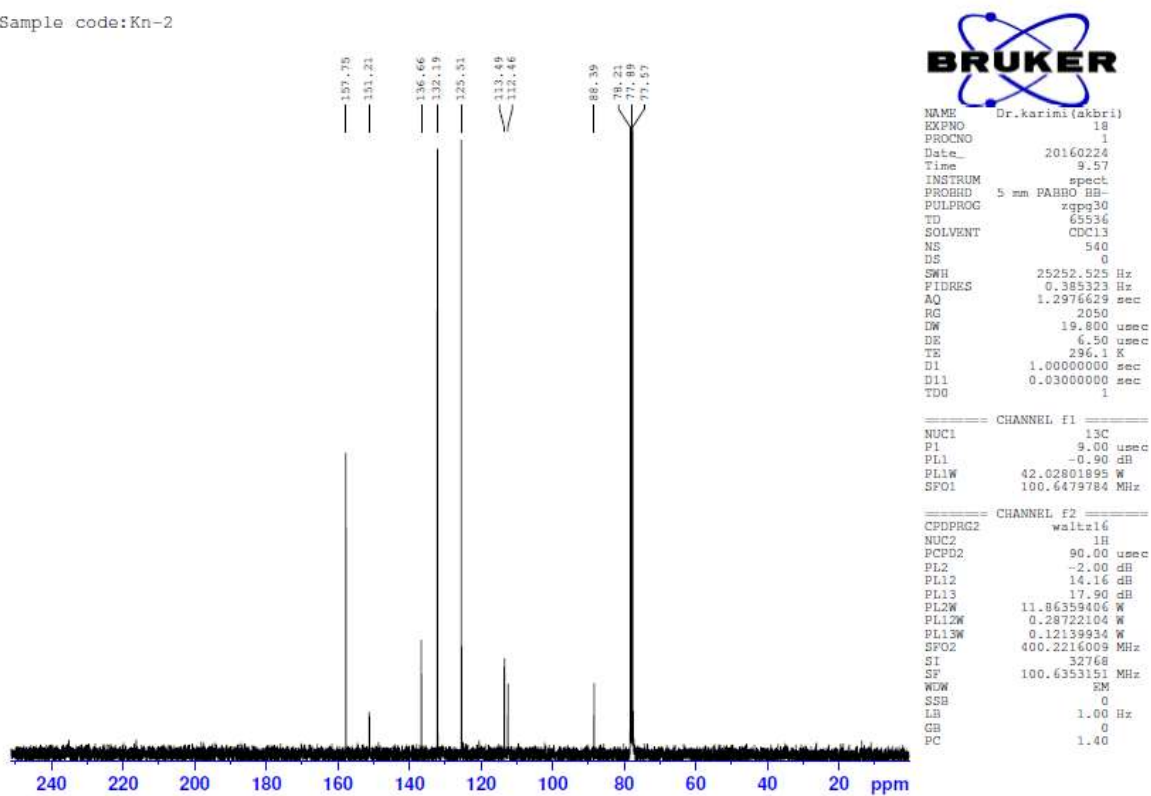


Figure S5. ¹³CNMR spectrum of Knoevenagel condensation reaction of malononitrile and 4-nitrobenzaldehyde.

Sample code:Kn-ph

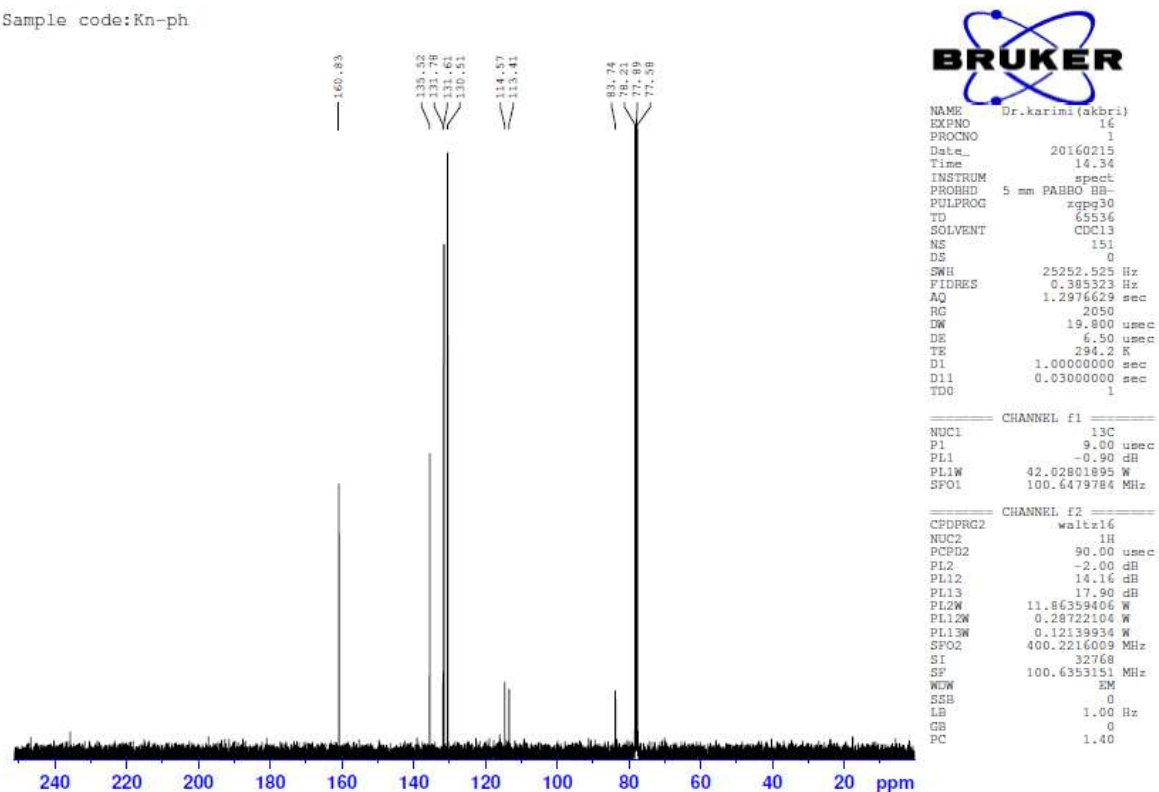


Figure S6. ^{13}C NMR spectrum of Knoevenagel condensation reaction of malononitrile and benzaldehyde

Sample code:Kn-8

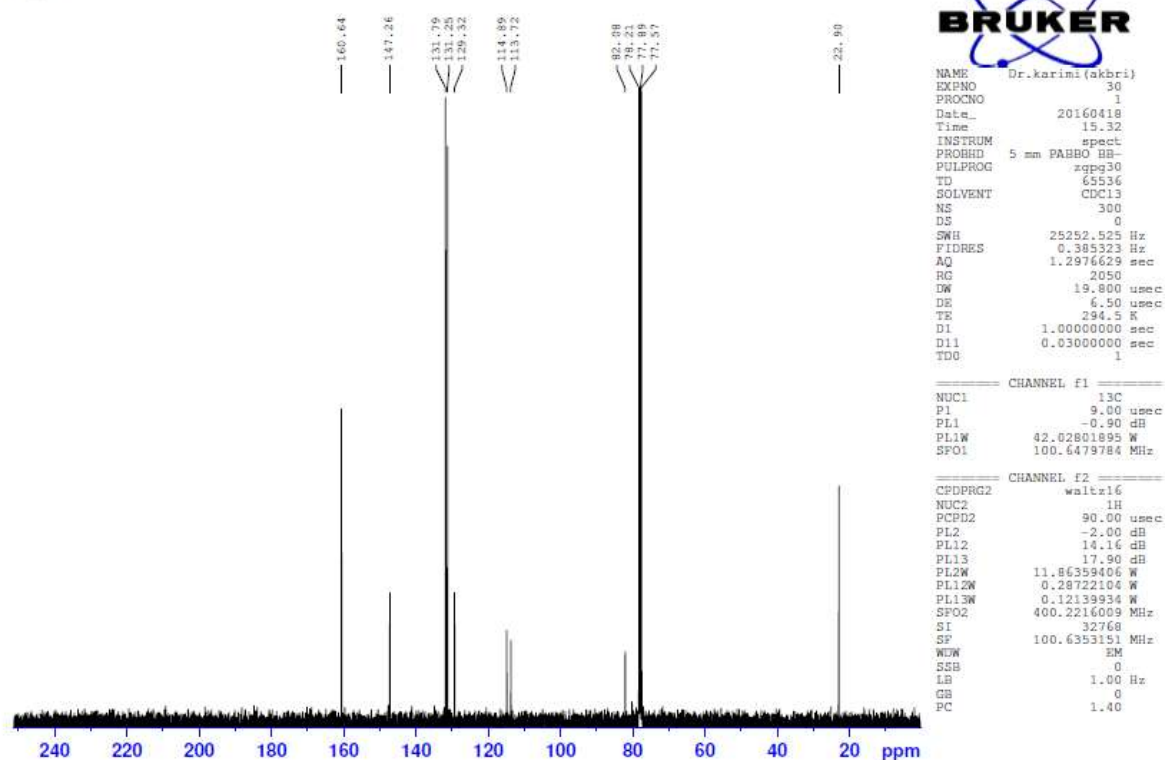


Figure S7. ^{13}C NMR spectrum of Knoevenagel condensation reaction of malononitrile and 4-methylbenzaldehyde.

Sample code:Kn-7

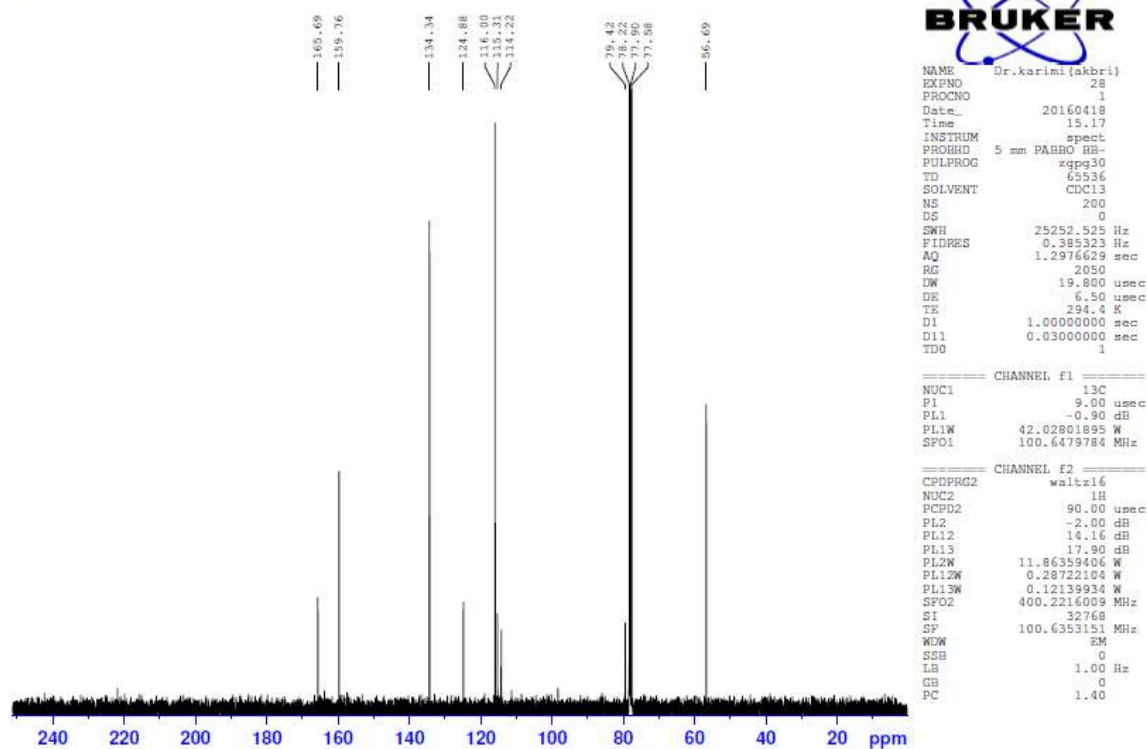


Figure S8. ^{13}C NMR spectrum of Knoevenagel condensation reaction of malononitrile and 4-methoxybenzaldehyde.