

Electronic Supporting information (ESI)

**Acetylene carbonylation over Ni-Containing Catalysts: Role of
Texture and Active Site Distribution**

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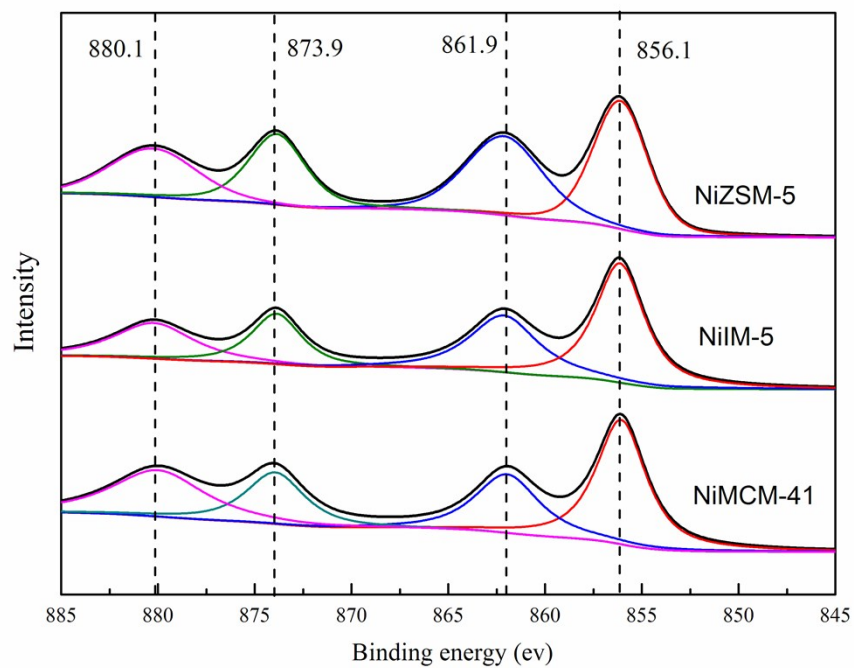


Figure S1. XPS patterns of nickel ion on various Ni modified catalysts

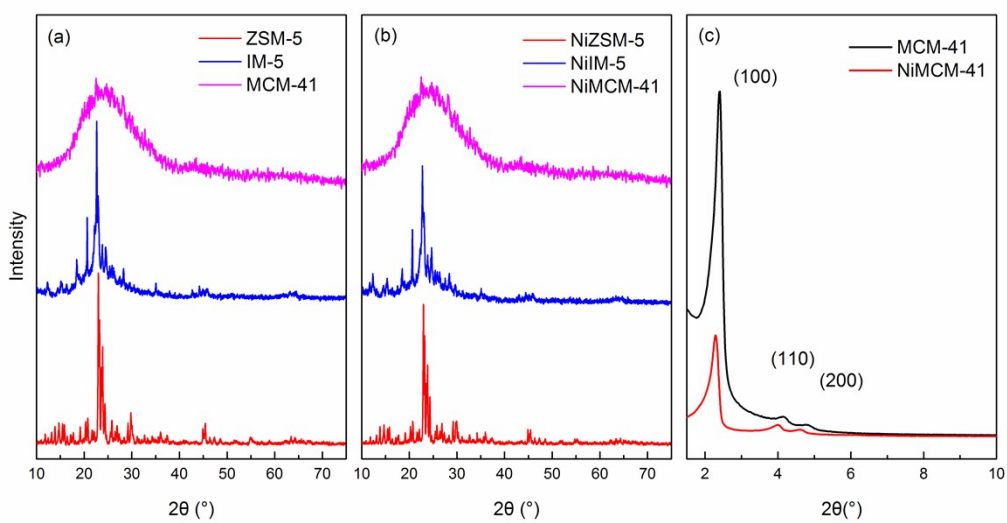


Fig. S2. X-ray diffraction patterns of samples: (a). parent materials (b). modified catalyst (c). (Ni)MCM-41 in small-angle range

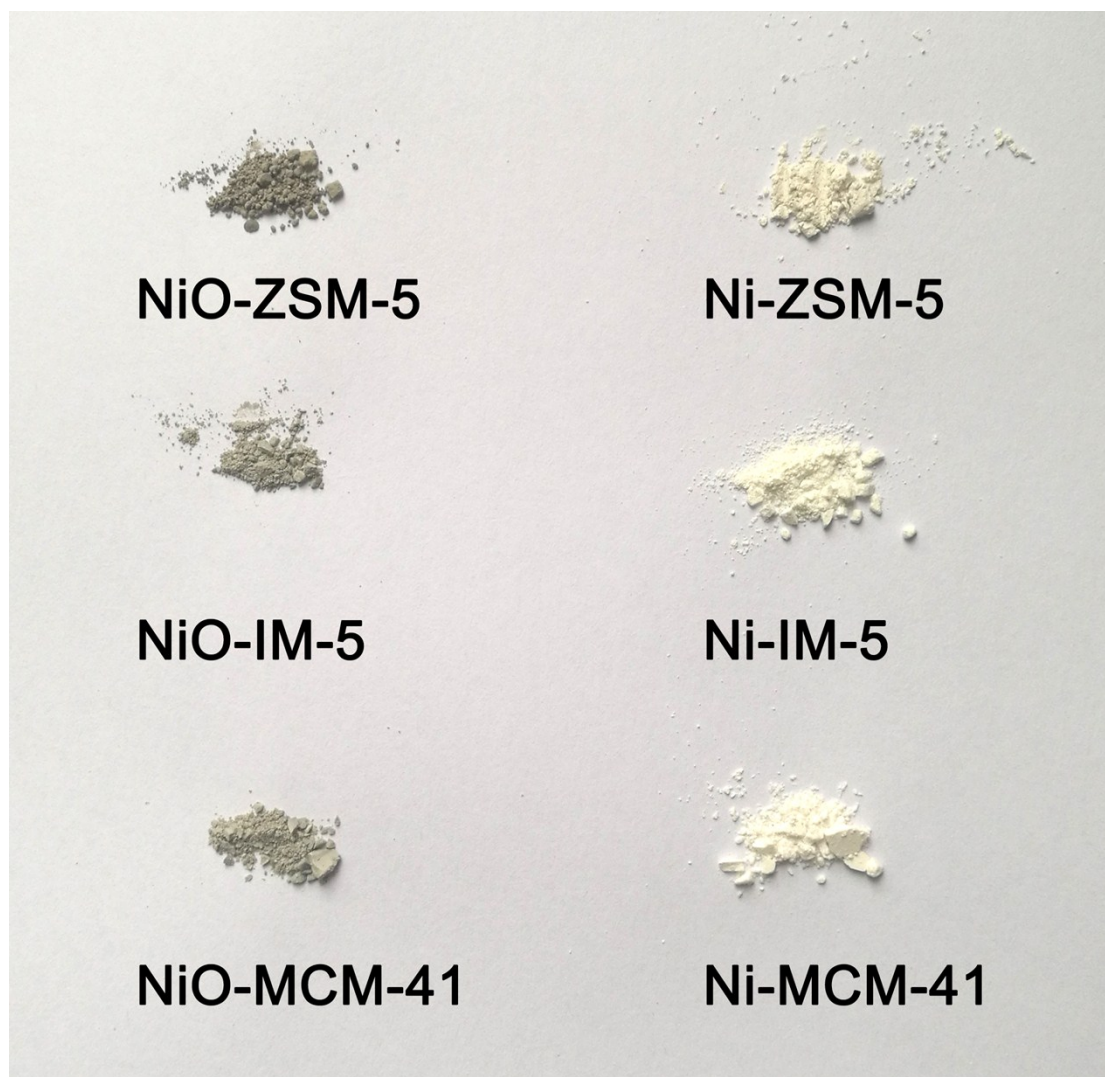


Fig. S3. Photograph of Ni-modified catalysts prepared by incipient wetness impregnation (left column) and ion exchanged (right column)