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Polymerization of Ethylene by Silica-Supported Dinuclear Cr^{III} Sites through an Initiation Step Involving C–H Bond Activation

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On page 1875 in this Communication the bands at ca. 3600 cm^{−1} in the IR spectrum of [(≡SiO)₆Cr₂] contacted with ethylene were assigned to a silanol interacting with a Cr^{III} site, referred to as Si–(μ-OH)–Cr in the manuscript. However, such bands also appear in polyethylene and are associated with combination bands from C–H vibrations, making the unequivocal observation of Si–(μ-OH)–Cr species impossible in these samples using IR spectroscopy.

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[1] M. P. Conley, M. F. Delley, F. Nunez-Zarur, A. Comas-Vives, C. Copéret, *Inorg. Chem.* **2015**, Article ASAP, DOI: 10.1021/ic502696n.