

Supporting Information

of

Highly linear polyethylenes tailored by 2,6-bis[1-(*p*- dibenzocycloheptylarylimino)ethyl]pyridylcobalt dichlorides

Liwei Guo,^{a,b} Muhammad Zada,^b Wenjuan Zhang,^{a,b,*} Arumugam Vignesh,^b Dongzhi Zhu,^{a,b}
Yanping Ma,^b Tongling Liang,^b and Wen-Hua Sun^{b,c,*}

^a Beijing Key Laboratory of Clothing Materials R&D and Assessment, Beijing Engineering Research Center of Textile Nanofiber, School of Materials Science and Engineering, Beijing Institute of Fashion Technology, Beijing 100029, China. E-mail: zhangwj@bift.edu.cn

^b Key Laboratory of Engineering Plastics and Beijing National Laboratory for Molecular Science, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China. E-mail: whsun@iccas.ac.cn

^c Key Laboratory of High-Performance Synthetic Rubber and its Composite Materials, Changchun Institute of Applied Chemistry Chinese Academy of Sciences, Changchun 130022, China

Contents:

1. Figure S1. ¹H NMR spectra of **Co1** (recorded in CD₂Cl₂ at room temperature).
2. Figure S2. ¹H NMR spectra of **Co2** (recorded in CD₂Cl₂ at room temperature).
3. Figure S3. ¹H NMR spectra of **Co3** (recorded in CD₂Cl₂ at room temperature).
4. Figure S4. ¹H NMR spectra of **Co4** (recorded in CD₂Cl₂ at room temperature).
5. The ¹H-NMR spectrum of the polyethylene produced using **Co3**/MMAO in C₂D₂Cl₄

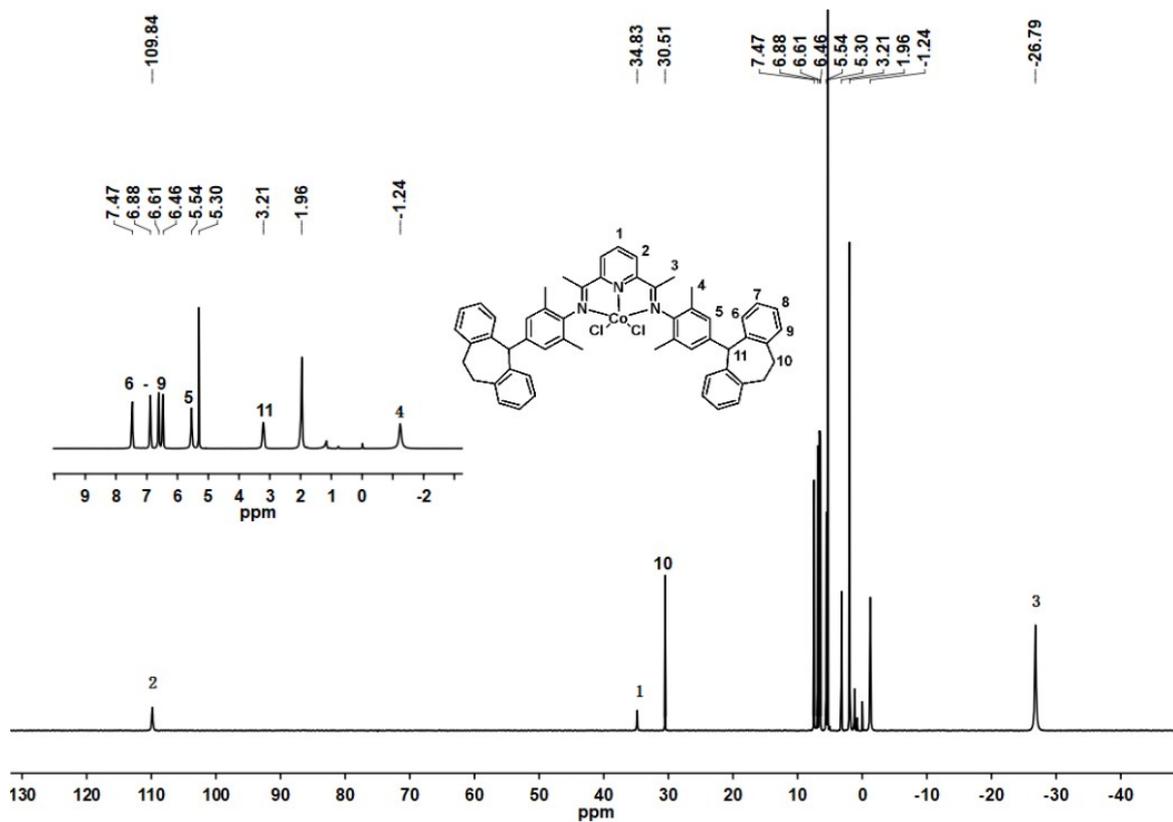


Figure S1. ^1H NMR spectra of **Co1** (recorded in CD_2Cl_2 at room temperature).

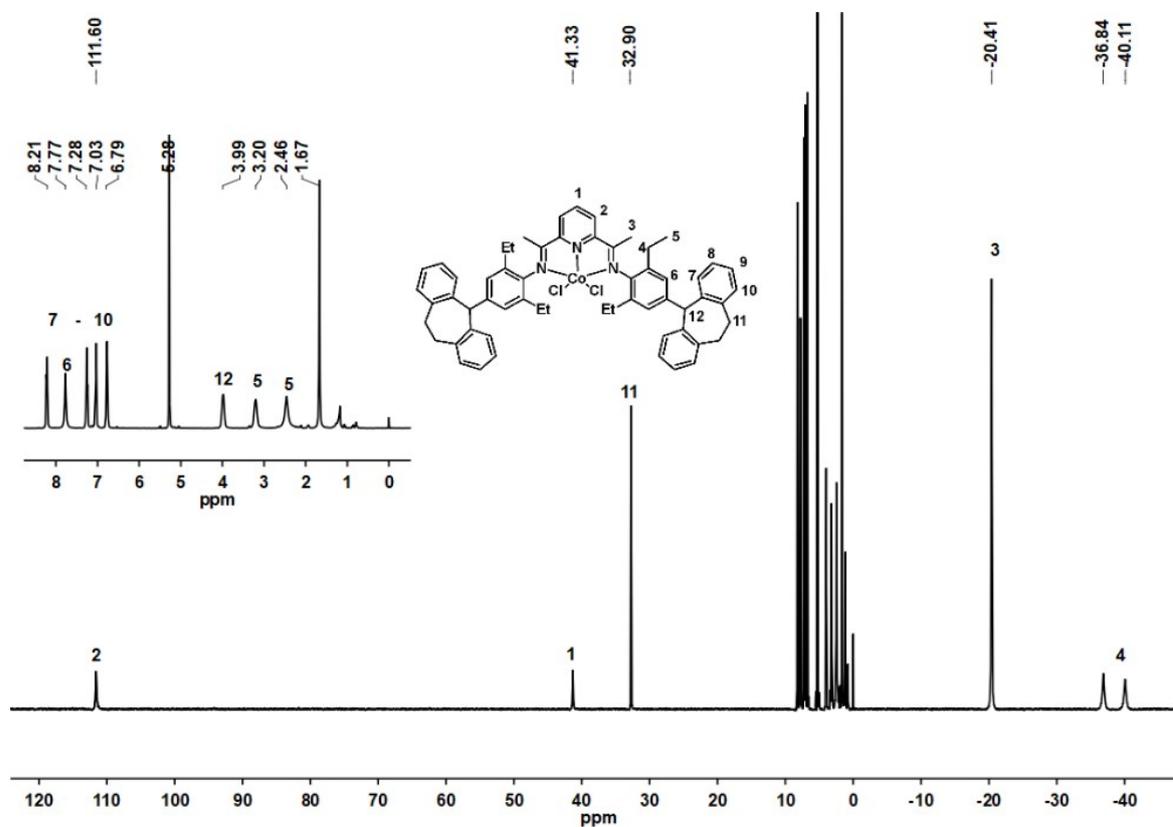


Figure S2. ^1H NMR spectra of **Co2** (recorded in CD_2Cl_2 at room temperature).

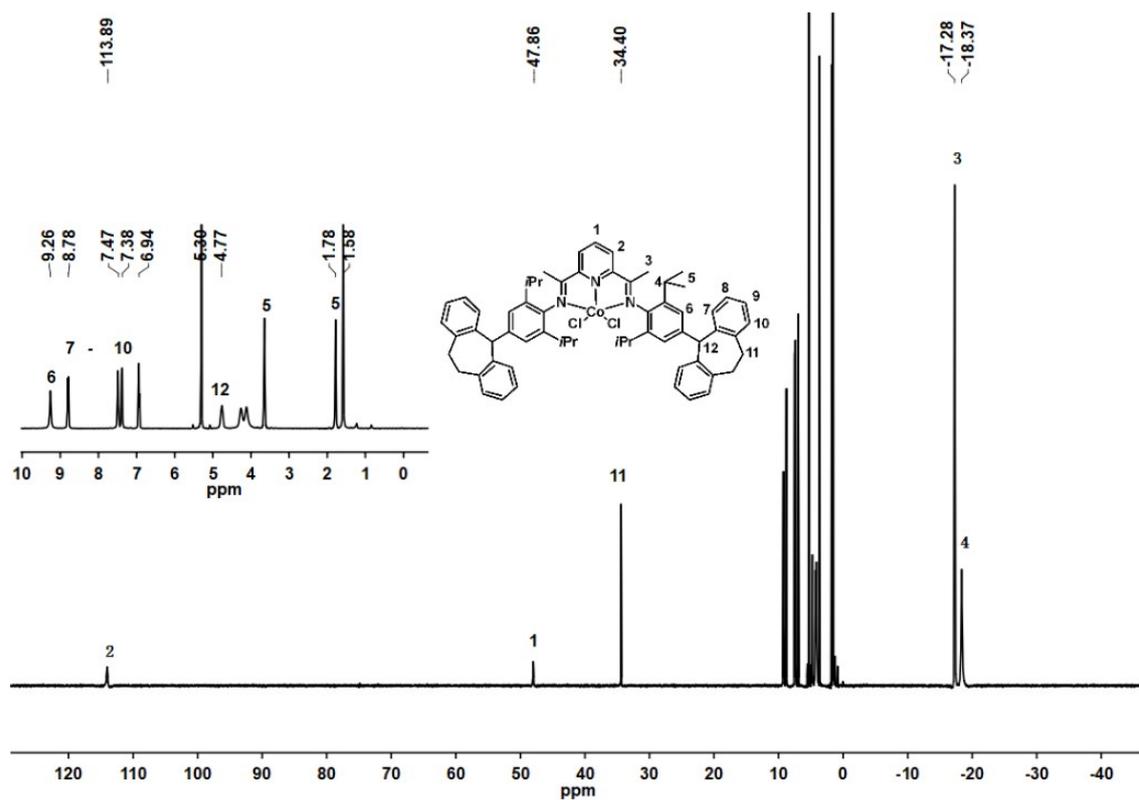


Figure S3. ^1H NMR spectra of **Co3** (recorded in CD_2Cl_2 at room temperature).

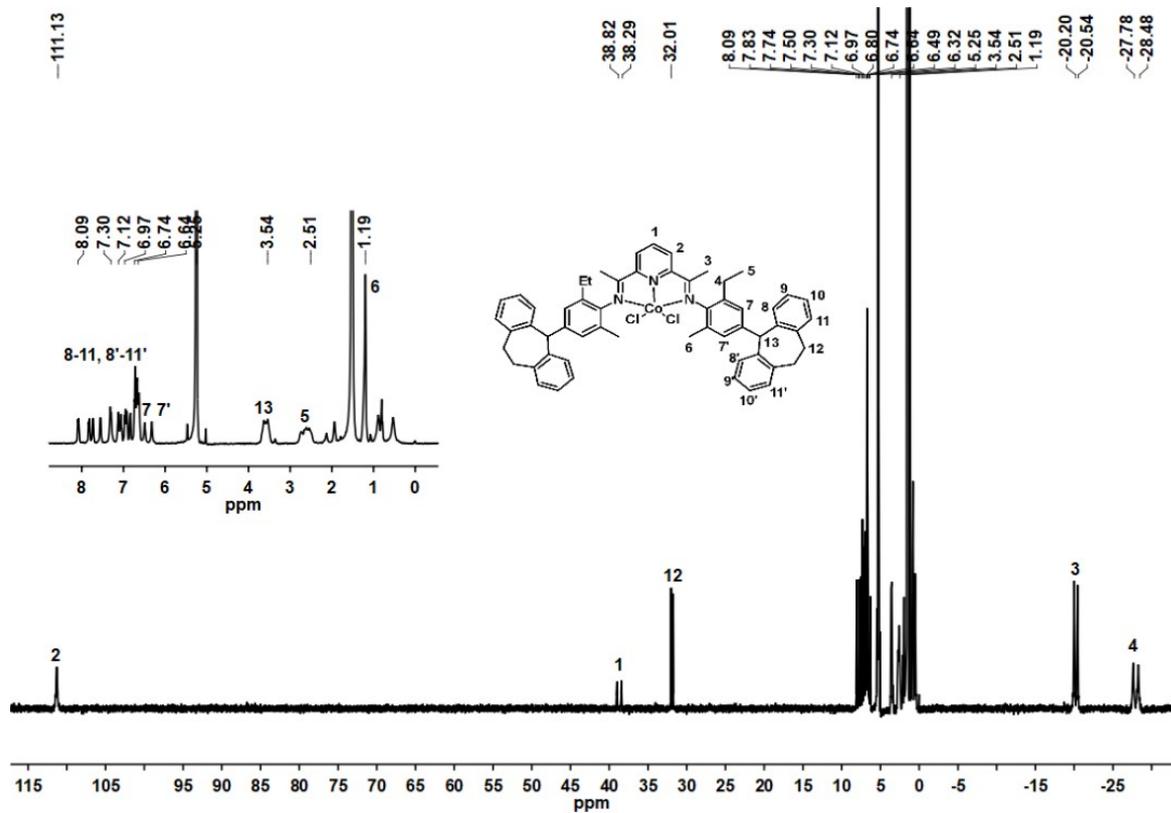


Figure S4. ^1H NMR spectra of **Co4** (recorded in CD_2Cl_2 at room temperature).

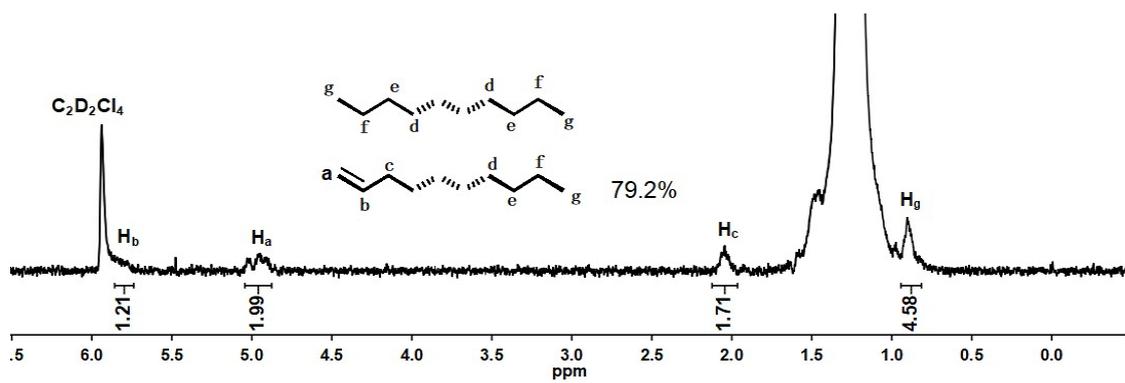


Figure S5. The ^1H -NMR spectrum of the polyethylene produced using Co3/MMAO in $\text{C}_2\text{D}_2\text{Cl}_4$ (entry 2, Table 4)