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## **Catalytic Functionalisation of Si-H Group on the Titanocene Periphery**

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2012

Dostupný z <http://www.nusl.cz/ntk/nusl-127032>

Dílo je chráněno podle autorského zákona č. 121/2000 Sb.

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Datum stažení: 28.04.2024

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CATALYTIC FUNCTIONALISATION OF SI-H GROUP ON THE  
TITANOCENE PERIPHERY.

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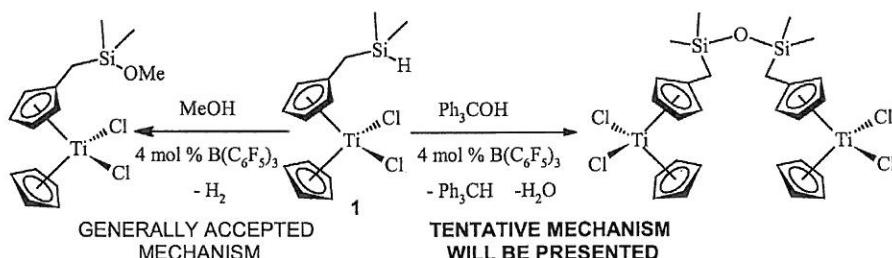
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The present work covers a long-term interest of our laboratory in preparation of group 4 metallocene complexes bearing pendant functional group, which could be modified directly in the metallocene framework. The pendant Si-H group is a reasonable choice and it is easily introduced at early stage of the metallocene dichloride synthesis, and possesses a reasonable stability towards air and moisture. The Si-H group on the metallocene periphery can be subsequently modified via catalytic hydrosilylation<sup>1</sup> or intramolecular dehydrocoupling reactions.<sup>2</sup> Herein we introduce a new titanocene dichloride bearing pendant Si-H group (**1**) as a convenient precursor for preparation of titanocene dichlorides with pendant silyl-ether functionality using silylation of methanol catalyzed with  $B(C_6F_5)_3$  via mechanism described by Blakwell *et al.*<sup>3</sup> Unlike to methanol the reaction of **1** with  $Ph_3COH$  proceeds in a different way with transfer of hydroxyl group from trityl group to silicon atom. The plausible mechanism of the reaction will be discussed in detail.



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