Supporting Information

First Structural Evidence for Multiple Alkali Metals between Sandwich Decks in a Metallocene.

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Figure S1. ¹H NMR (500.29 MHz) spectrum of 1 in C₆D₆, referenced to protio benzene at 7.16 ppm.



Figure S2. ⁷Li NMR (194.44 MHz) spectrum of **1** in C_6D_6 , referenced to 0.1 M LiCl in D_2O (red line). The black line is the solid-state ⁷Li MAS NMR spectrum.



Figure. S3 Packing arrangement of 1 along crystallographic b axis. Hydrogen atoms omitted for clarity. Li = yellow, Si = green, O = red.



Figure S4. ¹³C CPMAS NMR spectrum of **1**. The dagger indicates a peak from a degradation product and the asterisk indicates a spinning sideband.



Figure S5. ²⁹Si CPMAS NMR spectrum of 1. The dagger indicates a peak from a degradation product.



Figure S6. Packing arrangement of 2. Hydrogen atoms omitted for clarity. Na = orange, Si = green, O = red.



Figure S7. Packing arrangement of 2 along the *b* crystallographic axis.



Figure S8. Extending a single chain of 2 to more clearly see the polymeric structure.