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Chem. Mater., 1997, 9(5), 1068-1070, DOI: [10.1021/cm970044f](https://doi.org/10.1021/cm970044f)

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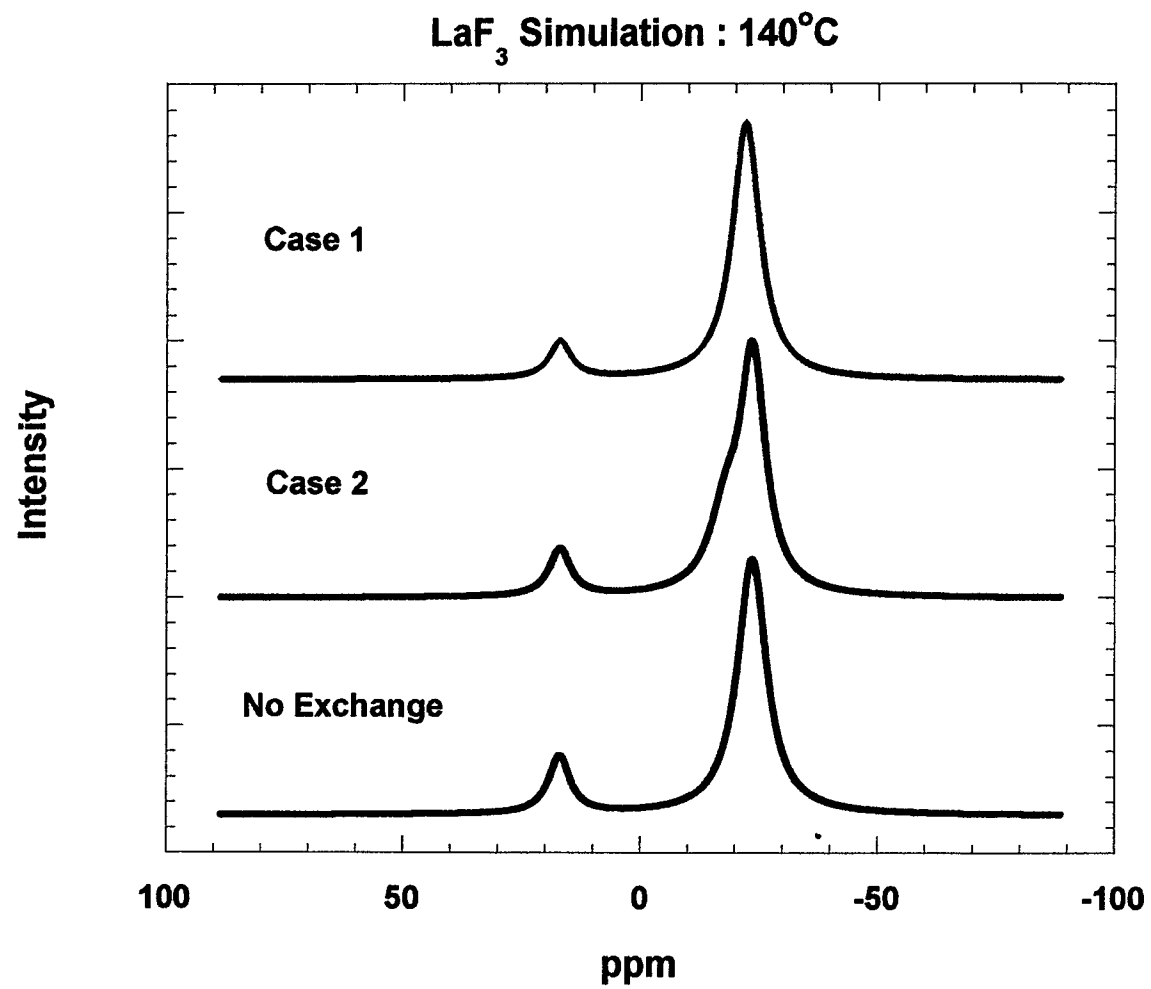
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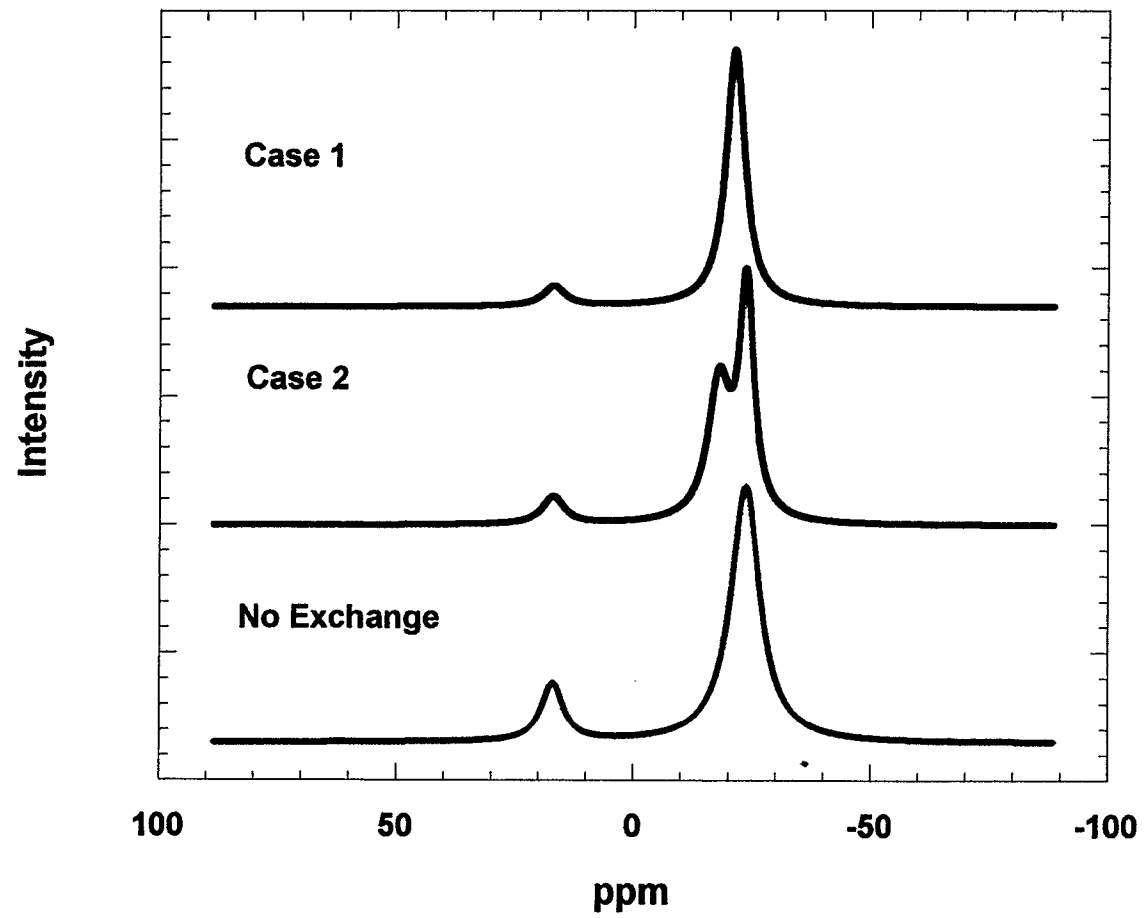
Supplemental Material

^{19}F MAS NMR spectra were simulated in order to demonstrate the effect of fast F1-F1 motion on the spectra. At each temperature, the fraction of mobile F3 ions (from Figure 2) was input into the simulations. These F3 ions then undergo exchange with nearby F1 ions with $\tau_c < 3.3 \times 10^{-5}$ s. Linebroadenings equal to those of the "F1" and rigid F3 resonance (Figure 1) were used in the simulations. Three simulations are shown for each temperature: Case 1 shows the spectrum under conditions of fast F1-F1 motion, Case 2 shows the spectrum under conditions of no F1-F1 exchange and "No Exchange" shows the spectrum under neither F1-F3 or F1-F1 exchange.

2



LaF₃ Simulation : 198°C



4

