

Perfluoroalkylpolyether Thin Layer–Induced Inhibition of Al₂O₃ Atomic Layer Deposition with a Trimethylaluminum Precursor

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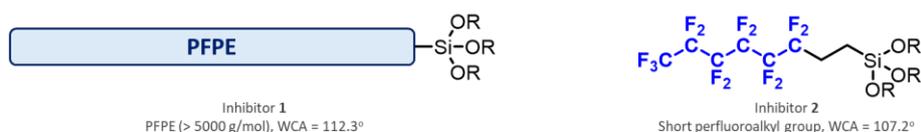
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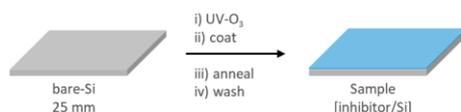
Supplemental Document

Figures

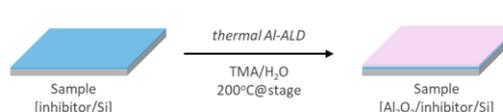
a) Inhibitors



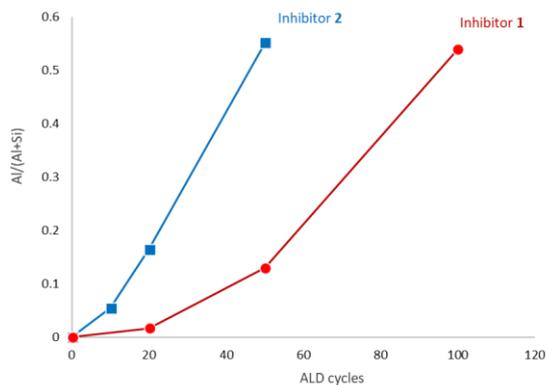
b) Preparation



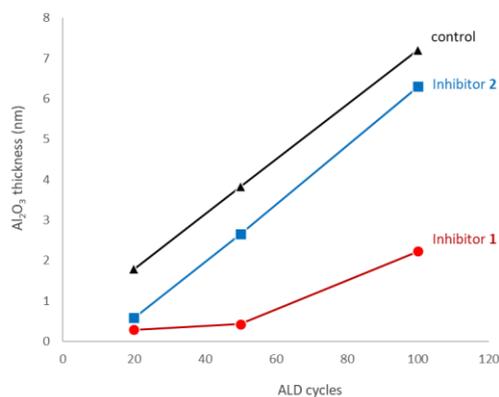
c) Conditions



d) Al/(Al+Si) ratio of each inhibitor



e) Al₂O₃ film thickness of each inhibitor



(a) Structures of inhibitors **1** and **2**. (b) Preparation method of inhibitor-coated samples. (c) ALD conditions employed in this presentation. (d) Al/(Al+Si) ratio of each sample obtained by XPS measurements. (e) Al₂O₃ film thickness of each sample obtained by ellipsometer.

References

- [1] G. N. Persons, R. D. Clark, *Chem. Mater.* **32** (2020), 4920.
- [2] Y. Lee, A. Rothman, A. B. Shearer, S. F. Bent, *Chem. Mater.* **37** (2025), 1741.
- [3] I.-K. Oh, T. E. Sandoval, T.-L. Liu, N. E. Richey, C. T. Nguyen, B. Gu, H.-B.-R Lee, R. Tonner-Zech, S. F. Bent, *J. Am. Chem. Soc.* **144** (2022), 11757.
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