

A New Zinc Amidinate Precursor for Thermal and Plasma-Enhanced ALD of ZnO

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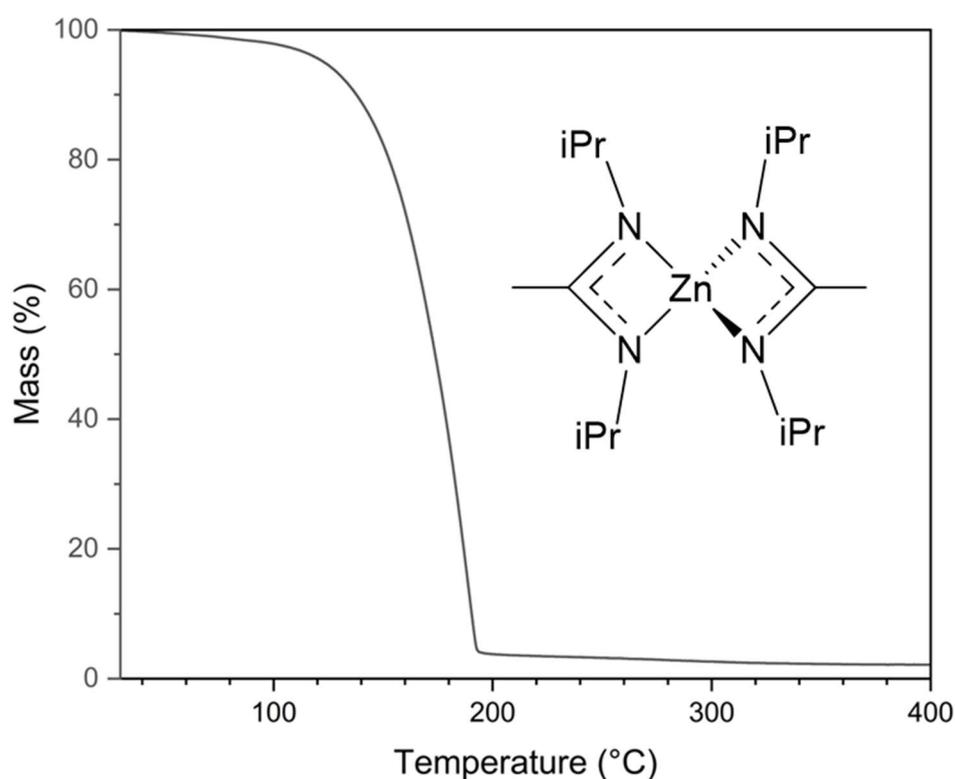


Figure 1: Thermogravimetric analysis (TGA) of [Zn(dpamd)₂].

- [1] Özgür, Ü.; Alivov, Ya. I.; Liu, C.; Teke, A.; Reshchikov, M. A.; Doğan, S.; Avrutin, V.; Cho, S.-J.; Morkoç, H. *J. Appl. Phys.* **2005**, *98* (4), 041301.
- [2] Shan, D.; Han, D.; Huang, F.; Tian, Y.; Zhang, S.; Qi, L.; Cong, Y.; Zhang, S.; Zhang, X.; Wang, Y. *Jpn. J. Appl. Phys.* **2014**, *53* (4S), 04EJ07.
- [3] Zhang, Y.-H.; Mei, Z.-X.; Liang, H.-L.; Du, X.-L. *Chin. Phys. B* **2017**, *26* (4), 047307.
- [4] Kang, Y.; Yu, F.; Zhang, L.; Wang, W.; Chen, L.; Li, Y. *Solid State Ion.* **2021**, *360*, 115544.
- [5] Profijt, H. B.; Potts, S. E.; Van De Sanden, M. C. M.; Kessels, W. M. M. *J. Vac. Sci. Technol. Vac. Surf. Films* **2011**, *29* (5).
- [6] Mai, L.; Mitschker, F.; Bock, C.; Niesen, A.; Ciftiyurek, E.; Rogalla, D.; Mickler, J.; Erig, M.; Li, Z.; Awakowicz, P.; Schierbaum, K.; Devi, A. *Small* **2020**, *16* (22).
- [7] Lim, B. S.; Rahtu, A.; Park, J.-S.; Gordon, R. G. *Inorg. Chem.* **2003**, *42* (24), 7951–7958.