

Supporting Information

Plasma-enhanced low-temperature ALD process for molybdenum oxide thin films and its evaluation as hydrogen gas sensors

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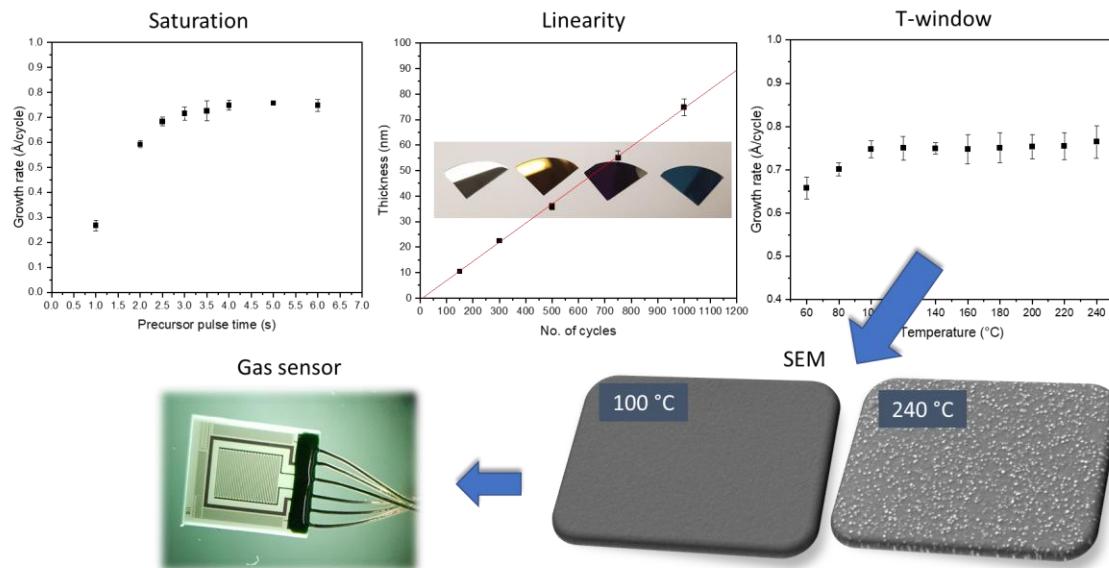


Figure 1. Characteristics of the PEALD process. Morphology of the resulting thin films and utilized sensor chips for resistive hydrogen gas sensing.

References

- [1] I. A. de Castro, R. S. Datta, J. Z. Ou, A. Castellanos-Gomez, S. Sriram, T. Daeneke, K. Kalantazadeh, *Adv. Mater.* **2017**, 29, No. 1701619.
- [2] M. Mattinen, J.-L. Wree, N. Stegmann, E. Ciftyurek, M. E. Achhab, P. J. King, K. Mizohata, J. Räisänen, K. D. Schierbaum, A. Devi, M. Ritala, M. Leskelä, *Chem. Mater.* **2018**, 30, 8690-8701.
- [3] J.-L. Wree, E. Ciftyurek, D. Zanders, N. Boysen, A. Kostka, D. Rogalla, M. Kasischke, A. Ostendorf, K. Schierbaum, A. Devi, *Dalton Trans.* **2020**, 49, 13462-13474.
- [4] M. F. J. Vos, B. Macco, N. F. W. Thissen, A. A. Bol, W. M. M. Kessels, *JVSTA* **2016**, 34, 01A103.