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## Growing oxide thin films in a low-energy electron microscope

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### Citation

Torren, A. J. H. van der. (2016, December 5). *Growing oxide thin films in a low-energy electron microscope*. *Casimir PhD Series*. Retrieved from <https://hdl.handle.net/1887/44732>

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**Author:** Torren, Alexander J.H. van der

**Title:** Growing oxide thin films in a low-energy electron microscope

**Issue Date:** 2016-12-05





# List of publications

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- A. J. H. van der Torren, H. Yuan, J. Jobst, J. ten Elshof, M. Huijben, A. J. H. M. Rijnders, G. Koster, S. J. van der Molen, and J. Aarts, *Growing a LaAlO<sub>3</sub>/SrTiO<sub>3</sub> heterostructure on Ca<sub>2</sub>Nb<sub>3</sub>O<sub>10</sub> nanosheets*, in preparation.
- A. J. H. van der Torren, Z. Liao, C. Xu, N. Gauquelin, C. Yin, J. Aarts, and S. J. van der Molen, *Finding signatures of the conducting LaAlO<sub>3</sub>/SrTiO<sub>3</sub> interface at the growth temperature by electron reflection*, in preparation.
- A. J. H. van der Torren, S. J. van der Molen, and J. Aarts, *Imaging pulsed laser deposition growth of homo-epitaxial SrTiO<sub>3</sub> by Low-Energy Electron Microscopy*, Nanotechnology (2016), accepted.
- J. Jobst, A. J. H. van der Torren, E. E. Krasovskii, J. Balgley, C. R. Dean, R. M. Tromp, and S. J. van der Molen, *Quantifying Electronic Band Interactions in Graphene, Hexagonal Boron Nitride and their Heterostructures*, Nature Communications (2016), accepted.
- C. Xu, H. Du, A. J. H. van der Torren, J. Aarts, C.-L. Jia, and R. Dittmann, *Formation mechanism of Ruddlesden-Popper-type antiphase boundaries during the kinetically limited growth of Sr rich SrTiO<sub>3</sub> thin films* (2016), submitted to Scientific Reports.
- G. Mattoni, P. Zubko, F. Maccherozzi, A. J. H. van der Torren, D. B. Boltje, M. Hadjimichael, N. Manca, S. Catalano, M. Gibert, Y. Liu, J. Aarts, J.-M. Triscone, S. S. Dhesi, and A. D. Caviglia, *Striped nanoscale phase separation at the metal-insulator transition of heteroepitaxial nickelates*, Nature Communications (2016), accepted.
- A. J. H. van der Torren, S. J. van der Molen, and J. Aarts, *Formation of a mixed ordered termination on the surface of LaAlO<sub>3</sub>(001)*, Physical Review B **91**, 245426 (2015).
- A. J. H. van der Torren, S. C. Yorulmaz, J. J. Renema, M. P. van Exter, and M. J. A. de Dood, *Spatially entangled four-photon states from a periodically poled potassium-titanyl-phosphate crystal*, Physical Review A **85**, 043837 (2012).



# Acknowledgements

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Here I would like to use the opportunity to thank the people who contributed to this thesis. First of all, Jan Aarts, my promotor who gave me the opportunity to work on this project. His experience in the field of perovskites and his trust in my work have been of great help. My copromotor Sense Jan van der Molen I would like to thank for always being available for discussion and his quick response and care about the LEEM. Furthermore, for the discussion about science and LEEM Ruud Tromp was always available.

From outside the university I am grateful for the discussions with Gertjan Koster from the university of Twente and for the helpful comments which he and Guus Rijnders from Twente gave around designing the PLD system. I am grateful for the people who supported me by making and measuring samples. Thanks to Zhaoliang Zhao and Huiyu Yuan for making samples at the university of Twente, Chencheng Xu for making samples in Jülich, Chunhai Yin and Nikita Lebedev for helping with samples in Leiden and Nicolas Gauquelin for measuring samples in Antwerp.

A big part of this thesis has been the development of a pulsed laser deposition system inside the low-energy electron microscope. This would not have been successful without the help of Ruud van Egmond and his colleagues at the fine mechanical department (FMD) for making all the parts. Special thanks to Marcel Hesselberth who was of great help when technical problems appeared and who always was available for discussion. His input in the discussion on the design of the pulsed laser deposition system was very valuable. Special thanks also to Daan Boltje, Johannes Jobst, Jaap Kautz, Daniël Geelen and Aniket Thete for discussions and working together on the LEEM. Also thanks to Ko Koning, Arno van Amersfoort, Peter van Veldhuizen and their colleagues from the electronic department (ELD).

I was happy to be able to work together with my two bachelor students Renger Zoonen and Lennert Prins and to receive support with sample preparation and measurements from Stefano Voltan, Amrita Singh, Kaveh Lahabi, Anne France and Thomas Mechielsen and other members of the MSM group. Federica Galli is acknowledged for helping me with the AFM. I would also like to acknowledge very efficient and friendly administrative assistance from Daniëlle Duijn, Ellie van Rijsewijk and Charlotte Laurens-Griffioen.

Finally, I would like to thank my friends and family, and especially my wife Antien Mooyaart for their continued support during the period of my PhD work.