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## Rhombohedral Hf<sub>0.5</sub>Zr<sub>0.5</sub>O<sub>2</sub> thin films

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## List of publications

- 1. A rhombohedral ferroelectric phase in epitaxially strained  $\text{Hf}_{0.5}\text{Zr}_{0.5}\text{O}_2$  thin films**  
**Yingfen Wei**, Pavan Nukala, Mart Salverda, Sylvia Matzen, Hong Jian Zhao, Jamo Momand, Arnoud S. Everhardt, Guillaume Agnus, Graeme R. Blake, Philippe Lecoeur, Bart J. Kooi, Jorge Íñiguez, Brahim Dkhil & Beatriz Noheda  
*Nature Materials* **17**, 1092 (2018). [Chapter 3]
- 2. Magnetic tunnel junctions based on ferroelectric  $\text{Hf}_{0.5}\text{Zr}_{0.5}\text{O}_2$  tunnel barriers**  
**Yingfen Wei**, Sylvia Matzen, Guillaume Agnus, Mart Salverda, Pavan Nukala, Thomas Maroutian, Qihong Chen, Jianting Ye, Philippe Lecoeur & Beatriz Noheda  
*Physics Review Applied* **12**, 031001 (2019). (highlighted by Editors' suggestion). [Chapter 5]
- 3. Negative piezoelectric effect in an organic supramolecular ferroelectric**  
Indre Urbanaviciute, Xiao Meng, Michal Biler, **Yingfen Wei**, Tim D. Cornelissen, Subham Bhattacharjee, Mathieu Linares & Martijn Kemerink  
*Materials Horizons* **6**, 1688 (2019). [Not in this thesis]
- 4. Magneto-ionic control of spin polarization in magnetic tunnel junctions**  
**Yingfen Wei**, Sylvia Matzen, Cynthia P. Quinteros, Thomas Maroutian, Guillaume Agnus, Philippe Lecoeur & Beatriz Noheda  
*npj Quantum Materials* (2019) (Accepted) [Chapter 6]

5. **Direct epitaxial growth of polar (1-x)HfO<sub>2</sub>-(x)ZrO<sub>2</sub> ultra-thin films on Silicon**  
Pavan Nukala\*, Jordi Antoja-Lleonart\*, **Yingfen Wei**, Lluís Yedra, Brahim Dkhil & Beatriz Noheda ([\*]: equally contributing authors)  
*ACS Applied Electronic Materials* (2019) (Accepted) [Not in this thesis]
6. **Guidelines for polar-phase formation in epitaxial Hf<sub>0.5</sub>Zr<sub>0.5</sub>O<sub>2</sub> thin films**  
Pavan Nukala\*, **Yingfen Wei**\*, & Beatriz Noheda ([\*]: equally contributing authors)  
*To be submitted* [Chapter 4]