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**Key research interests:**

- III-V and group IV nano-materials and nano-structures
- quantum dots
- Nanomaterial growth and characterization

**Key Publications**

1. Twinning superlattices in indium phosphide nanowires, Rienk E. Algra, Marcel A. Verheijen, Magnus T. Borgström, Lou-Fé Feiner, George Immink, Willem J.P. van Enckevort, Elias Vlieg & Erik P.A.M. Bakkers, **Nature** 456, 369-372 (2008).
2. Epitaxial growth of InP nanowires on germanium Erik P.A.M. Bakkers, Jorden A. van Dam, Silvano De Franceschi, Leo P. Kouwenhoven, Monja Kaiser, Marcel Verheijen, Harry Wondergem and Paul van der Sluis, **Nature Materials** 3, 769-773 (2004).
3. Supercurrent reversal in quantum dots. J.A. Van Dam, Y.V. Nazarov, E.P.A.M. Bakkers, S. De Franceschi and L.P. Kouwenhoven, **Nature** 442, 667-670 (2006).
4. Synergetic Nanowire Growth Magnus T. Borgström, George Immink, Bas Ketelaars, Rienk Algra, Erik P.A.M. Bakkers, **Nature Nanotechnology**, 2, 541 (2007).
5. Tunable supercurrent through semiconductor nanowires. Y.-J. Doh, J.A. van Dam, A.L. Roest, E.P.A.M. Bakkers, L.P. Kouwenhoven and S. De Franceschi, **Science** 309, 272-275 (2005).