

University of Groningen

Spin transport across oxide semiconductors and antiferromagnetic oxide interfaces

Das, Arijit

DOI:
[10.33612/diss.150692255](https://doi.org/10.33612/diss.150692255)

IMPORTANT NOTE: You are advised to consult the publisher's version (publisher's PDF) if you wish to cite from it. Please check the document version below.

Document Version
Publisher's PDF, also known as Version of record

Publication date:
2021

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Das, A. (2021). *Spin transport across oxide semiconductors and antiferromagnetic oxide interfaces*. [Thesis fully internal (DIV), University of Groningen]. University of Groningen.
<https://doi.org/10.33612/diss.150692255>

Copyright

Other than for strictly personal use, it is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license (like Creative Commons).

The publication may also be distributed here under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license. More information can be found on the University of Groningen website: <https://www.rug.nl/library/open-access/self-archiving-pure/taverne-amendment>.

Take-down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

Downloaded from the University of Groningen/UMCG research database (Pure): <http://www.rug.nl/research/portal>. For technical reasons the number of authors shown on this cover page is limited to 10 maximum.

List of Publications

1. "*Electric Field Modulation of Spin Accumulation in Nb-doped SrTiO₃ with Ni/AlO_x Spin Injection Contacts*", **A. Das**, S. T. Jousma and T. Banerjee, SPIN, **8**, 1840004, (2018).
2. "*Evolution of the magnetoresistance lineshape with temperature and electric field across Nb-doped SrTiO₃ interface*", **A. Das**, S. T. Jousma, A. Majumdar and T. Banerjee, Applied Physics Letters, **112**, 182405, (2018).
3. "*Electric field driven memristive behavior at the Schottky interface of Nb-doped SrTiO₃*", A. S. Goossens, **A. Das** and T. Banerjee, Journal of Applied Physics under special edition of New Physics and Materials for Neuromorphic Computation, **124**, 152102, (2018).
4. "*Electric field modulation of tunneling anisotropic magnetoresistance across the Schottky interface of Ni/Nb-doped SrTiO₃ at room temperature*", **A. Das**, V. M. Goossens, A. S. Goossens and T. Banerjee, Proceedings, SPIE 10732, Spintronics XI, 107323B (20 September 2018).
5. "*Robust skyrmion-bubble textures in SrRuO₃ thin films stabilized by magnetic anisotropy*", P. Zhang, **A. Das**, E. Barts, M. Azhar, L. Si, K. Held, M. Mostovoy and T. Banerjee, Physical Reviews research, **2**, 032026(R), (2020).

6. "Coexistence of different magnetic ordering in thin films of $SrMnO_3$ studied by spin transport", **A. Das**, V. Eswara Phanindra, A. J. Watson and T. Banerjee, *under review*, (2020).
7. "Temperature dependent magnetoresistance across Co/CoO interface on a complex oxide semiconductor platform ", **A. Das**, A. S. Goossens and T. Banerjee, *in preparation*.

Curriculum Vitae

Arijit Das

03/09/1989 Born in Kolkata, India

Education

10/2015 - 01/2021 Ph.D. Research in the group of Spintronics in functional materials under the supervision of Prof. Tamalika Banarjee.
Performed at University of Groningen, The Netherlands

09/2013 - 08/2015 Topmasters (M.Sc.) in Nanoscience, University of Groningen, the Netherlands

09/2011 - 08/2013 M.Sc. in Physics, Presidency University, Kolkata, India

09/2008 - 07/2011 B.Sc. in Physics, University of Calcutta, Kolkata, India