

Curriculum Vitae

Ingmar Swart

Assistant Professor (tenured)
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Research Experience

- 2012 – present Assistant Professor, Debye Institute for Nanomaterials Science, Utrecht University, the Netherlands.
- 2009 – 2012 NWO Rubicon fellow, Institute of Experimental and Applied Physics, University of Regensburg, Germany.
Project: *Single-molecule chemistry and physics explored by low-temperature scanning probe microscopy.*
Group leader: Prof. dr. J. Repp
- 2008 – 2009 Post-doctoral researcher, Debye Institute for Nanomaterials Science, Utrecht University, the Netherlands.
Project: *Scanning tunneling microscopy and atomic force microscopy of semiconductor nanocrystals.*
Group leaders: Prof. dr. P. Liljeroth and Prof. dr. D. Vanmaekelbergh
- 2004 – 2008 Ph.D. student, Debye Institute for Nanomaterials Science, Utrecht University, the Netherlands.
❖ *Adsorption of molecules on transition metal clusters in the gas-phase.*
Collaboration with the Steacie Institute for Molecular Sciences, Ottawa, Canada, and the Fritz-Haber-Institut, Berlin, Germany.
❖ *Synchrotron based spectroscopy of catalytically active particles*
Collaboration with the Delft University of Technology, the Netherlands.
Advisors: Prof. dr. ir. B.M. Weckhuysen, Prof. dr. F.M.F. de Groot, Dr. A. Fielicke
- 2004 Research project (6 months), Department of Chemistry, University of California at Berkeley, USA.
Project: *Exciton dynamics in semiconductor nanostructures.*
Advisor: Prof. dr. S.R. Leone
- 2002 – 2003 Master of Science research project (1 year), Debye Institute for Nanomaterials Science, Utrecht University, the Netherlands.
Project: *Spectroscopy of quantum dots and quantum dot structures.*
Advisor: Prof. dr. A. Meijerink
- 2003 Bachelor of Science research project (3 months), Debye Institute for Nanomaterials Science, Utrecht University, the Netherlands.
Project: *Hydrogen diffusion in switchable mirrors.*
Advisor: Prof. dr. J.J. Kelly

Publications

I have published 42 papers in international peer-reviewed journals, 30 of which in high-ranking (Impact Factor >7) journals. These include: Science (1), Nature (1), Nature Physics (1), Nature Nanotechnology (News & Views), Nature Communications (3), Journal of the American Chemical Society (3), Angewandte Chemie (4), Nano Letters (6), ACS Nano (3), Physical Review Letters (6), and Chemical Reviews (1).

The average number of citations per publication is >56. My h- and i-10 indices are 25, and 34, respectively. For an up to date list and citation statistics, please see my google scholar page.

Grants, scholarships and awards

- 2018 *FOM-Projectruimte grant* (600 k€, together with Prof. Vanmaekelbergh), Awarded by the Netherlands Organisation for Scientific Research (NWO).
- 2016 *DAN-II network* (2 M€, co-applicant), Awarded by NWO.
- 2016 *FOM-Projectruimte grant* (550 k€, main applicant, together with Prof. C. de Morais Smith), Awarded by NWO.
- 2016 *NWO-Groot grant* (2.5 M€, co-applicant), Awarded by NWO.
- 2014 *FOM-Programma grant* (2.3 M€, co-applicant), awarded by FOM.
- 2013 *ECHO-STIP grant*, (260 k€, main applicant). Awarded by the Netherlands Organisation for Scientific Research (NWO).
- 2011 *VENI grant* (250 k€, main applicant). Awarded NWO.
- 2009 *Rubicon grant* (44 k€, main applicant). Awarded by NWO. Aim of the Rubicon program: allow talented researchers to perform postdoctoral research at a top research institution outside the Netherlands.
- 2007 *Price for best lecture held by a Ph.D. student*, NCCC VIII conference, 5-7 March 2007, Noordwijkerhout, the Netherlands
- 2003 *Stipend to fund research stay at the University of California at Berkeley*, Karel Frederik Stichting, Utrecht, the Netherlands
- 2003 *Stipend to fund research stay at the University of California at Berkeley*, Stichting de Fundatie van de Vrijvrouwe van Renswoude te 's-Gravenhage, 's Gravenhage, the Netherlands

Reviewing Experience

❖ Peer reviewed journals

Nature, Nature Chemistry, Nature Nanotechnology, Nature Communications, Journal of the American Chemical Society, Nano letters, ACS Nano, Physical Review Letters, Nanoscale, Journal of Physical Chemistry C, Physical Chemistry Chemical Physics, Physical Review B.

❖ Funding agencies

European Research Council (ERC), Netherlands Organization for Scientific Research (NWO), German Science Foundation (DFG), French National Science Foundation (ANR), Czech Science Foundation (GACR), US – Israel Binational Science Foundation, Strasbourg University, Aix-Marseille University.

Education

- 2004 – 2008 Ph.D. in physical chemistry, *Cum Laude* (top 5%)
Faculty of Science, Utrecht University, Utrecht, the Netherlands.
- 1999 – 2004 M.Sc. in physical chemistry, *Cum Laude* (top 10%),
Faculty of Science, Utrecht University, Utrecht, the Netherlands.

Teaching Experience

In possession of basic and senior University Teaching Qualifications. For details what these qualifications entail, see <http://www.uu.nl/en/education/teaching-qualifications>

I am the recipient of the 2017 *Outstanding Young Teacher* award of Utrecht University. One prize is awarded per year to a teacher of the university with less than 5 years of experience

Undergraduate courses

- 2015– present *Structure of Matter*. Credits: 7.5 EC. My contribution: 60%, 2nd year.
I have completely revised the part I teach.
- 2014 – present *Statistical Physics Lab course*. Credits: 3 EC. My contribution: 50%, 2nd year.
Together with Dr. P.J.S. van Capel I have built this lab course up from the ground.
- 2013 – present *Experimental research project*. Credits: 7.5 EC. My contribution: 15%, 2nd year

Graduate courses

- 2013, 2014 *Computational Quantum Mechanics*. Credits: 7.5 EC. My contribution: 50%.
Together with Dr. M.A. van Huis I have built this lab course up from the ground.
- 2013 – present *Solids & Solid Surfaces*. Credits: 7.5 EC. My contribution: 50%, 3rd year). I
have completely revised the part I teach.

Institutional Responsibilities

- 2014 – 2017 Chairman of the board of examiners of the Dept. of Chemistry (member since 2013).
- 2014 – 2017 Member of the board of examiners of the Undergraduate School, Faculty of Science.
- 2014 – 2017 Member of the board of examiners of the Graduate School of Natural Science, Faculty of Science.
- 2014 – 2015 Member of the board of examiners of the Dept. of Physics.
- 2012 – 2015 Co-organizer of the monthly Debye Colloquium.
- 2014 – 2016 Co-organizer of the biannual Debye Spring School, ~100 participants.
- 2012 – 2015 Member of a general works council of the Dept. of Chemistry.

Organization of Scientific Meetings

- 2018 Organizer of the ‘Dutch Scanning probe day’, 150 participants, November 2018, Utrecht.
- 2014 Co-organizer of the ‘Dutch Vacuum day’, 150 participants, June 4th, Utrecht.
- 2013 Co-organizer of the ‘Optical and Electrical Spectroscopy of Single Quantum Dots’ workshop. 52 participants, March 10-12, Mallorca.
- 2013 Co-organizer of the ‘Dutch Graphene Day’, 70 participants, May 3rd, Utrecht.

Other

- 2016 – present President of the Dutch Vacuum Society, NEVAC.
- 2014 – 2016 Vice-president of the Dutch Vacuum Society, NEVAC.

References

- ❖ Prof. dr. J. Repp
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- ❖ Prof. dr. D. Vanmaekelbergh
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- ❖ Prof. dr. F.M.F. de Groot
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