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**Scientific Publications:** 940 in total (Web of Science) **out of which 30+ are with Taiwanese co-authors**

- Nature Reviews Materials 2025, Nature Synthesis 2024, Nature Primer 2023, Science 2021, Nature Materials 2017 & 2020, Nature Comm. 2017
- 8 papers with 2014 Physics Nobel Laureates Hiroshi Amano, I Akasaki

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**# Citations** 63000 independent

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### Academic Degrees

1991 Docent in Materials Physics, Linköping University, Sweden

1988 Ph.D. in Materials Physics, Linköping University

1984 M.Sc. Applied Physics and Electrical Engineering, Linköping University

Born 13 April, 1960

### Current and Previous Academic Positions

1999 - Professor, Linköping University, Head Thin Film Physics Division, IFM

2013 - CEO, Swedish Foundation for Strategic Research (SSF) with time for research

2024 - Visiting Chair Professor at Ming Chi University of Science and Technology, New Taipei City

2004-2006 Visiting Professor at University of Illinois, Urbana

1989-1990 Post-doc at Northwestern University, Illinois (Swedish Natural Science Council Grant)

### Major Distinctions and Awards

2024: Discovered **Goldene**: single-atom layer gold. *Nature Synthesis* doi.org/10.1038/s44160-024-00518-4

2023 AVS John A. Thornton Memorial Award and Lecture

2023 R.F. Bunshah Award and Honorary ICMCTF Lecture

2021 - Court Chamberlain to His Majesty the King Carl XVI Gustaf of Sweden

2009 - Member Royal Swedish Academy of Sciences (KVA)

2008 - Member of the Royal Swedish Academy of Engineering Sciences (IVA)

2018 Certificate in Professional Board Work from Michaël Berglund AB

2013 AkzoNobel Sweden Science Award

2012 American Ceramic Society Ross Coffin Purdy Best Paper Award: ACS Nano 6, p 1322

2012 LiU Junior Faculty Prize for *most prominent researcher supporting careers of junior researchers*

2010&2000 The Jacob Wallenberg Scholarship in Material Science

2006&2007 Fellow of AVS (American Vacuum Society) & Forschungszentrum Dresden-Rossendorf

2003 Excellent Researcher Recognition by the Swedish Research Council (VR)

1993 Swedish Government award for most prominent young researcher

### National and International Assignments of Importance

2023 Invited by Taipei Mission in Sweden Ambassador Dr. Klement Ruey-sheng GU to 112<sup>th</sup> ROC Ntnl Day

2022 - Chair Advisory Comm. Wallenberg Initiative on Materials Science for Sustainability (WISE)

2019 - Board Member Sweden- Japan Foundation

2016 Participant IVA Royal Technology Mission to Japan; Headed by HM King Carl XVI Gustaf

2014-2024 Board Member Vetenskap & Allmänhet (Science & Society)

2010-2012 Board of Directors, American Vacuum Society (AVS), NY

2009-2012 Scientific Advisory Board, Hungarian Academy of Sciences  
 2007-2012 Board Member Linköping University; 2 consecutive periods  
 2007-2009 Chair, AVS Executive Comm Advanced Surface Engineering Division  
 2003-2014 Founder and Chair, Center for Nano Science & Technol. (CENANO) at Linköping Univ.  
 2003-2004 General Chair & Prgrm Chair Int Conf Thin Films & Metal. Coatings, San Diego, 700+ papers  
 2001-2007 Chancellor of Sweden to IUVSTA (vice-chancellor 1998-2001)  
 1998-2004 Board Member, Center Industrial ICT (CENIIT) at LiU  
 1994-2004 Board member of the Scandinavian Society for electron microscopy  
 1996-1988 Founding member & Secretary of the Swedish Assoc. for Surface Engineering  
 1996-2008 President ('97-'98) and Board Member of the Swedish Vacuum Society

### Editorial Board Memberships

1994 -ongoing. Editor-in-Chief VACUUM (Elsevier Ltd); Journal Impact Factor = 4

**Keynote Invited Talk at International Events:** 118 Invited/plenaries including several occasions in Taiwan

### Major Grants as Prime investigator (1 SEK ≈ 3 TWD)

2023 - KAW Foundation WISE Sustainable Development Post Doc Grant	MSEK 4
2010 - Founder & Dir. (until 2013): Governm. Strategic Res. Area (SFO) Mat. Sci., AFM	MSEK 28/yr
2011-2023 Wallenberg Scholar	MSEK 3/yr
1990-2021 VR-Individual Project Grants:	MSEK 1/yr
2012-2017 Director and Founder: SSF Synergy Grant in Materials Science <i>FUNCASE</i>	MSEK 26
2008-2013 ERC Advanced Grant	MSEK 23
2007-2013 Director and Founder: VINNOVA Excellence Center <i>FunMat</i>	MSEK 63
2006-2016 Director and Founder: VR Linnaeus Grant <i>LiLi-NFM</i>	MSEK 80
2006-2012 Director and Founder: SSF SRC <i>MS<sup>2</sup>E</i>	MSEK 45
1997-2006 Director/Founder: SSF- <i>Thin-Film Growth</i> & SSF- <i>Film Synthesis Consortium</i>	MSEK 51
2000-2005 EU-Proj FullereneLike Mtrl; <i>Canadis-FlatPanelDisplay</i> ; <i>Ultraplate-Electrodep</i>	MSEK 1.5/yr
2002; 2008-2012 KAW Analytical TEM + FEI-Titan3 60-300 kV electron microscopes.	MSEK 15+46

### Supervision (including career boost to several Taiwanese scholars)

Graduated MSc students	20	Current PhD students	2 (co-supervised)
Graduates Licentiate students	42	Previous post-docs	22
Graduated PhD students	42	Current post-docs	3

2011 - Founder of the Graduate School *Agora Materiae* at Linköping University (LiU)

2010-2024 *Inspector* for the LinTek Student Union at Linköping University

1997-2001 Creator & Program Responsible *M.Sc.. Electronics Design Prgrm*, LiU-Campus Norrköping

1994-2013 Lecturer/Examiner Physical Metallurgy (*Materials Science*)

### Entrepreneurial Achievements

2018 - Consulting for SweGaN AB ([www.swegan.se](http://www.swegan.se)); Taiwanese CEO, Founder & Board Member: Jr-Tai Chen

2013 - Member of IVA Business Executives Council (Näringslivsrådet)

2018 - Initiator and Comm. Member for IVA *Barometer for Swedish Business' Investments in R&D*

2009 - Neutron thin film detector solutions for ESS (own company *nWorks*, patents & job-coat factory)

2008-2010 Board member, Carbodeon Ltd Oy

20+ patents in nanotech. Exchange with industry and spin-outs (*Impact Coatings & Thin Film Electronics*)

### Contributions towards International Research Exchange and Building Research Environments & Infrastructure

2022 - Installed SSF Expat Grants MSEK 63 for Ukrainian Scientists' professional refuge at university in Sweden

2020 - Installed SSF-Israel/MOST) Lise Meitner Bilateral Research Program (25+25 MSEK)

2019 - Installed SSF-Sweden/Taiwan MOST/NSTC Collab. Research Framework Projects (MSEK 60 from SSF)

2013 - Installed SSF Grad. School *Swed/NESS* with post-docs program for neutron scattering

2013 - Interactions SSF-JSPS for nominations of Post-Doc Fellows to Japan

2021 - Proposed to VR-RFI a Swedish National Network on Atomic Resolution TEM (ARTEMI) – Granted.

1988 - Built world-leading research environment at LiU (exp./theory/simul., industry & internat. Exchange)

2010-2014 Board of Directors, MAX-IV Synchrotron Lab. & Ref. Group NanoMAX Beamline, Lund, Sweden.