

CURRICULUM VITAE

FULL NAME

Mikko Kalervo Ritala

DATE AND PLACE OF BIRTH

February 29, 1968, Nokia, Finland

CURRENT POSITION

Professor of Inorganic Materials Chemistry, 2003 –
University of Helsinki, Department of Chemistry

EDUCATION

Docent, Inorganic chemistry	1996	University of Helsinki
Ph.D., Inorganic chemistry	1994	University of Helsinki
M.Sc., Inorganic chemistry	1991	University of Turku
Matriculation examination	1986	Nokia High School

PREVIOUS PROFESSIONAL APPOINTMENTS

1998 – 2003	Academy researcher Senior Fellow of the Academy of Finland	University of Helsinki
1995-1998	Research Scientist (Junior Fellow of the Academy of Finland)	University of Helsinki
1994-1995	Teaching Assistant	University of Helsinki
1991-1994	Research Scientist	University of Helsinki
1990-1991	Teaching Assistant	University of Turku
1989-1990	Research Assistant	University of Turku (total 8 months)

PUBLICATIONS

423 peer-reviewed articles, 48 non-reviewed articles, 7 book chapters, 16 granted patents, h-index 66 (14.12.2018, Web of Science).
47 invited talks in international conferences.

MOST IMPORTANT SCIENTIFIC ACKNOWLEDGEMENTS AND AWARDS, MEMBERSHIPS IN SCIENCE ACADEMIES

ISI highly cited author nomination in the field of Materials science, nominated in 2007.

Finnish Academy of Science and Letters 2009-

Alfred Kordelin Foundation recognition award 2010

EDITORIAL BOARD MEMBERSHIP

Advanced Materials Interfaces, Advisory board member, 2016-
Kemia-Kemi, Editorial board, chairman 2001-2005

MEMBERSHIP IN SCIENTIFIC SOCIETIES

Finnish Chemical Society 1991-



Electrochemical society

1996-

OTHER ACADEMIC AND PROFESSIONAL ACTIVITIES

Committee/board membership

Infrastructure working group of University of Helsinki

- member, 2018-

Department of Chemistry, University of Helsinki:

- elected board member 2007-2009, 2010-2013 and 2014-

- vice-head of the Department 2010-2013 and 2014- (acting Sept. – Dec. 2014)

Faculty of Science, University of Helsinki:

- elected board member 1998-2000, 2001-2003, 2007-2009 and 2010-2013

Scientific board of the Faculty of Science

- member, 2010-2013 and 2018- (infrastructure matters only)

Infrastructure working group of the Kumpula campus

- member, 2010-2017

Steering group for building usage at the Faculty of Science

- member 2012-

Working group of the Kumpula campus for evaluating reorganization of the university administration towards campus based system

- member, 2001

Steering group of ChemistryLab Gadolin, Department of Chemistry, University of Helsinki, chairman 2008-2018

Kumpula Business Labs (research space for university – industry collaboration), coordinator 2015-

Board member in University of Helsinki study programmes

- Doctoral programme in Materials Research and Nanosciences (MATRENA) 2016-

- Master programme in Materials Research (Matres), vice chair 2016-

- Bachelor programme in Chemistry, vice chair 2016-

Vice-head of Finnish Center of Excellence in Atomic Layer Deposition, 2012-2017

Helsinki Institute of Physics, Institute board, member 2014-7, vice-member 2018-

Chemistry Finland working group of departments of chemistry and chemical engineering in Finnish universities

- founding member, 2014-; chairman 2016-

Publication Forum (in Finnish often referred to as JUFO), a rating and classification system to support the quality assessment of research output, member of Panel 10 Chemical engineering, materials engineering and environmental engineering, 2018-.

Finnish Chemical Society:

- member of the board 1999-2014

- chairman 2002-2003

- vice chairman 2000-2001

Association of Finnish Chemical Societies:

- member of the board 2001- 2009

- vice chairman 2007-2009

Scientific Council of Chemical Industry Federation in Finland 2011-2016

SusChem FI (Sustainable Chemistry Finland technology platform)

- member of the board 2018-

Helsinki Chemicals Forum, Advisory Board member 2018-

Supervisor of completed PhD thesis

- Zhongmei Han, University of Helsinki, 2018
- Maarit Mäkelä, University of Helsinki, 2018
- Miia Mäntymäki, University of Helsinki, 2017
- Jani Holopainen, University of Helsinki, 2017
- Tiina Sarnet, University of Helsinki, 2015
- Emma Salmi, University of Helsinki, 2015
- Yoann Tomczak, University of Helsinki, 2014
- Timothee Blanquart, University of Helsinki, 2013
- Jani Hämäläinen, University of Helsinki, 2013
- Kjell Knapas, University of Helsinki, 2012
- Elina Färm, University of Helsinki, 2011
- Jarkko Ihanus, University of Helsinki, 2010
- Viljami Pore, University of Helsinki, 2010
- Tero Pilvi, University of Helsinki, 2008
- Marko Vehkamäki, University of Helsinki, 2007
- Antti Niskanen, University of Helsinki, 2006
- Petra Alén, University of Helsinki, 2005
- Titta Aaltonen, University of Helsinki, 2005
- Raija Matero, University of Helsinki, 2004
- Marianna Kemell, University of Helsinki, 2003
- Antti Rahtu, University of Helsinki, 2002
- Marika Juppo, University of Helsinki, 2001
- Heini Saloniemi, University of Helsinki, 2000
- Wei-Min Li, University of Helsinki, 2000
- Kaupo Kukli, University of Tartu/University of Helsinki, 1999

Opponent of PhD thesis

- Nick Thissen, Technical University of Eindhoven, 2017
- Juha-Pekka Nikkanen, Tampere University of technology, 2016
- Anne-Charlotte Johansson, Technical University of Denmark, 2013
- Pia Myllymäki, Aalto University School of Science and Technology, 2010
- Erik Langereis, Technical University of Eindhoven, 2008
- Saila Karvinen, University of Joensuu, 2003
- Ola Nilsen, University of Oslo, 2003

Referee of PhD thesis

- Haodong Zhang, KU Leuven, 2018
- Jarmo Leppäniemi, Aalto University, 2018
- Nick Thissen, Technical University of Eindhoven, 2017
- Tommi Riekkinen, Helsinki University of Technology, 2009
- Erik Langereis, Technical University of Eindhoven, 2008
- Jani Päiväsaari, Helsinki University of Technology, 2006
- Matti Putkonen, Helsinki University of Technology, 2002
- Mikko Utriainen, Helsinki University of Technology, 1999
- Marja Tiitta, Helsinki University of Technology, 1998
- Arla Kytökivi, Helsinki University of Technology, 1997
- Seppo Lindroos, University of Helsinki, 1997

Referee of professorship applicants and scientific society fellowships

- Massachusetts Institutes of Technology, 2008
- Royal Society fellowship, 2016

Research Proposal Evaluator

- Czech Science Foundation, 2016
- University of Cyprus, 2016

- United States-Israel Binational Science Foundation- Research Foundation, 2015
- Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO), Belgium, 2014
- Netherlands Organisation for Scientific Research (NWO), 2014
- Swiss-Norwegian Council for the Research with Synchrotron Radiation, 2012
- American Chemical Society, Petroleum research Fund, 2012
- Vienna University of Technology, 2011
- Agency for Science, Technology & Research, Singapore, 2009 and 2010
- Estonian Science Foundation, 2008, 2010 and 2015
- The Technology Foundation STW, Netherlands, 2007
- Alberta Ingenuity Fund, Canada, 2007, 2008
- Netherlands Organization for Scientific Research (NWO), 2007
- Austrian Science Fund, 2007
- Department of Energy, Office of Basic Energy Sciences, USA, 2006, 2007 and 2010.
- National Science Foundation, USA, 2003.
- Agency for Science, Technology & Research, Singapore, 2002.

Co-organizer of scientific conferences

- ALD 2018 - AVS 18th International Conference on Atomic Layer Deposition, Incheon, 2018
- ALD 2017 - 17th International Conference on Atomic Layer Deposition, Denver, 2017
- Joint EuroCVD 21 – Baltic ALD 15, Linköping, 2017
- ALD 2016 – 16th International Conference on Atomic Layer Deposition, Dublin, Ireland
- ALD 2015 – 15th International Conference on Atomic Layer Deposition, Portland, 2015
- ALD 2014 – 14th International Conference on Atomic Layer Deposition, Kyoto, 2014
- Baltic ALD 2014, Helsinki, 2014.
- E-MRS 2013 Spring meeting, Symposium N: Atomic-scale engineering of multifunctional nano-sized materials and films, Strasbourg, 2013, chairman
- AVS-ALD & Baltic ALD 2012 – 12th International Conference on Atomic Layer Deposition, Dresden, 2012
- Nano and Giga Challenges in Electronics, Photonics and Renewable Energy (NGC2011), Moscow, 2011
- ALD 2011 – 11th International Conference on Atomic Layer Deposition, Cambridge, Massachusetts, 2011
- Baltic ALD 2010 & GerALD 2, Hamburg, 2010
- ALD 2010 – 10th International Conference on Atomic Layer Deposition, Seoul, 2010
- ALD 2009 – 9th International Conference on Atomic Layer Deposition, Monterey, 2009.
- INFOS 2009 - Insulating Films on Semiconductors, Cambridge, 2009.
- BALD 2009 - Baltic Conference on Atomic Layer Deposition, Uppsala, 2009
- 2009 IEEE International Interconnect Technology Conference, Sapporo, 2009.
- ALD 2008 – 8th International Conference on Atomic Layer Deposition, Bruges, 2008.
- 2008 IEEE International Interconnect Technology Conference, San Francisco, 2008.
- Deposition on Nonplanar Substrates, symposium in Materials Research Society Spring 2007 Meeting, San Francisco, 2007
- 2007 IEEE International Interconnect Technology Conference, San Francisco, 2007.
- ALD 2007 – AVS 7th International Conference on Atomic Layer Deposition, San Diego, 2007.
- INFOS 2007 - Insulating Films on Semiconductors, Athens, 2007.
- 2006 IEEE International Interconnect Technology Conference, San Francisco, 2006.
- Baltic Conference on Atomic Layer Deposition 2006, Oslo, 2006.
- ALD 2006 - American Vacuum Society 6th International Conference on ALD, Seoul, 2006.
- American Vacuum Society 5th International Conference on ALD, San Jose, 2005
- INFOS (Insulating Films on Semiconductors), Leuven, 2005.
- American Vacuum Society Topical Conference on ALD, Helsinki, 2004, chairman
- NanoElectronic Materials Conference, Grenoble, 2004
- American Vacuum Society Topical Conference on ALD, San Jose, 2003

- 5th Baltic Symposium on ALD (BALD-5), Tartu, 2002
- American Vacuum Society Topical Conference on ALD, Seoul, 2002.
- American Vacuum Society Topical Conference on ALD, Monterey, 2001.
- CERC3 Young Chemists Workshop: Chemical Preparation of Thin Films, Heterogeneous Catalysts and Related Surface Structures, Tuusula, Finland, 1999; chairman.
- Finnish Chemical Congress and Exhibition, Helsinki, 1997.
- 9th National Symposium on Inorganic and Analytical Chemistry, Helsinki, 1996.
- NorfA Workshop on Thin Film Growth and Characterization, Helsinki, 1996
- 3rd Baltic ALE Symposium, Helsinki, Finland, 1995.

Short course instructor

- ALD 2008 conference, Workshop: *ALD from Basics to Future Perspectives*, 2008, Bruges.
- Materials Research Society, Fall meeting 2007, Boston, Tutorial: *Atomic Layer Deposition - Fundamentals and Applications in Nanotechnology and 3D Structures*, together with Steven George
- American Vacuum Society Short Courses, *Atomic Layer Deposition: Fundamentals, Chemistry, and Applications*, biannually 2002-2006, 2008.
- American Vacuum Science & POSTECH, *ALD Basics, Chemistry and Precursors* 2006, Seoul.