

I. NAME AND CONTACT INFORMATION:

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II. ACADEMIC DEGREES:

Degree of Master of Science in Engineering (1995); Degree of Licentiate of Technology (1998) and Degree of Doctor of Technology (2002) Tampere University of Technology.

III. PRESENT EMPLOYMENT POSITION

Professor (tenured) (2016 onwards). Research area includes structural characterization and NDE (non-destructive evaluation) of various materials (nanomaterials, magnetic materials, 3D printed materials, materials in tribological contacts, coatings) together with activities in material processing, performance and failure analysis. Special expertise on electron microscopy including the administrative and scientific *leadership* in university-level *Tampere Microscopy Center*. Main TAU administrative duty is *Vice Dean for Research in the Faculty of Engineering and Natural Sciences* (2019-2028) including the membership in TAU Science Council, TAU Research Steering group and TAU Infrastructure Steering group.

IV. RESEARCH OUTPUT

Publication activity: more than 400 publications in total including around 160 peer-reviewed scientific articles, 40 other scientific articles and more than 200 other publications. H-index is 39/44 with around 5700/7600 citations (Scopus/Google Scholar, January 2026).

V. TEACHING MERITS

- Supervision of 12 Ph.D. theses (8 completed, 4 ongoing), 20 Master theses and 5 Bachelor theses.
- Responsibility of courses (curriculum work, teaching, evaluation) covering the materials characterization topics at Engineering Materials Science/Tampere University: 1. Research Methods in Materials Science (Basic course about the research methods used in materials science, Bachelor level, Teaching language Finnish), 2. Electron Microscopy (Course for master level, Teaching language English), 3. Non-destructive testing and failure analysis (Course about failure analysis and NDT research methods used in materials science, Master level, Teaching language English) and 4. Advances Materials Characterization (Course suitable both to Master and Doctoral level, Teaching language English).
- Head of the Doctoral Program in Engineering Sciences 2017-2023 at Tampere University.
- Steering group member at University of Eastern Finland for building new engineering study programs 2022-2026.

VI. AWARDS AND HONOURS

- First Class Knight, Order of the White Rose of Finland, SVR R I 2023.
- Member of the Finnish Academy of Technology (2024).

VII. OTHER SELECTED SCIENTIFIC AND ACADEMIC MERITS

- Present University level duties: Member in TAU PROFI6 Imaging Platform Steering group, in TAU Sähköotalo Research Hub Steering group, in Finnish Atmospheric Science Network Steering group, in Prein Flagship Steering committee and in TAU Sustainability Steering group.
- Member in the Research Committee for Natural Sciences and Engineering (2019-2021), the Finnish Research Infrastructure Committee - FIRI Committee (2019-2022) and the Finnish Research Infrastructure Council (2026-2027) in Research Council of Finland.
- Member in Finnish Publication Forum Panel (10-Chemical, materials and environmental engineering) 2025-28.
- Pre-examiner/opponent/grading committee member of PhD thesis and assessing research positions (Chalmers University of Technology, Oulu University, University of Eastern Finland, Danish Technical University, Luleå University of Technology and KTH Royal Institute of Technology)
- Reviewer of Polish National Research Center applications (2014-2016), Evaluator for EU in Graphene Flagship actions and related Funding calls (2020-2025), Evaluator for EU MSCA and EIC applications (2025-26), Reviewer of German Research Foundation, Latvian Council of Science and Cyprus Research and Innovation Foundation applications (2024-2026), Head of the International Evaluation Panel for university research assessment action in Prague (2025).
- Elected and re-elected Board member of SCANDEM Nordic Microscopy Society since 2012
- Main Organiser of ICBM15 15th International Conference on Barkhausen Noise and Micromagnetic Testing, 2024 Tampere, Main Organiser of Scandem 2022 online conference, Annual Meeting of the Nordic Microscopy Society; Member of Scientific Committee of SCANDEM 2007 Espoo/Finland, Surface Modification Technology conference SMT28 Tampere/Finland 2014, ICBM14 Conference in Stockholm/Sweden 2022 and ICBM16 Conference in Dortmund/Germany; Conference secretary of The 8th Euro Summer School on Electron Crystallography, 2002 Tampere/Finland.