

Curriculum Vitae

Niko Münzenrieder

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EDUCATION

2021 **National Scientific Qualification for Full Professors (Italy)**
Sector: 09/E3 Electronics

2020 **National Scientific Qualification for Full Professors (Italy)**
Sector: 02/B1 Experimental Physics of Matter

2015 - 2016 **Post graduate certificate in higher education:** University of Sussex (UK)
Certificate: PGCertHE

2009 - 2013 **PhD in electrical engineering:** ETH Zürich (Switzerland)
“Flexible oxide semiconductor electronics on plastic substrates” ([Prof. Dr. G. Tröster](#))
Certificate: Dr. sc.
[Awarded the ETH medal](#)

2007 - 2008 **Diploma thesis:** Walter Schottky Institute TU München (Germany)
“Highly reflective and polarization selective sub-wavelength gratings for surface emitting laser diodes” ([Prof. Dr. M-C. Amann](#))

2003 - 2008 **Diploma in general physics [MSc equivalent]:** TU München (Germany)
Certificate: Dipl. Phys. Univ.

CURRENT AND PREVIOUS POSITIONS

Since 2019: **Associate Professor, Physics of Matter:** Faculty of Engineering
Free University of Bozen-Bolzano (Italy)

2018 – 2019: **Senior Lecturer in Sensor Technology:** Head of the Flexible Electronics Laboratory
University of Sussex (UK)

2015 – 2018: **Lecturer in Sensor Technology:** Head of the Flexible Electronics Laboratory
University of Sussex (UK)

2013 – 2014: **Postdoctoral research fellow** (flexible electronics): Electronics Laboratory,
ETH Zürich (CH)

2009 – 2013: **Research and teaching assistant:** Electronics Laboratory, Department for Information
Technology, ETH Zürich (CH)

2008: **Research student:** Chair for Semiconductor Technology, Walter Schottky Institute,
TU München (Germany)

- 2007: **Research student:** Chair for Experimental Semiconductor Physics, Department of Physics, TU München (Germany)
- 2002 – 2003: Civil service: Kirnbach school for mentally disabled children, Tübingen, (Germany)

EXTERNAL ACADEMIC POSITIONS

- Since 2020: **Honorary Professor:** Department of Computer Science
University College London (UK)
- Since 2019: **Honorary Senior Lecturer:** Sensor Technology Research Centre
University of Sussex (UK)
- 2015 – 2018: 15% part time **Oberassistent**, (Postdoctoral Researcher until 2016):
ETH Zürich (Switzerland)

INSTITUTIONAL RESPONSIBILITIES

- Since 2020: **Research Macroarea Coordinator:** „Materials and Devices for Smart Systems“ (Free University of Bozen-Bolzano) (until 2023: „Smart Systems Technologies and Engineering“)
- Since 2019: Scientific Committee member, PhD program: “Advanced-Systems Engineering”, 35th +36th +37th +38th cycle. (Free University of Bozen-Bolzano)

RESEARCH FUNDING

- Competitive funding for numerous research and infrastructure projects secured from: Engineering and Physical Sciences Research Council, Global Challenges Research Fund, NHS National Institute for Health Research, Sussex Research Opportunity Fund, Luxembourg Science Foundation, Royal Society, Swiss Science Foundation, UK Research and Innovation, the European Regional Development Fund, the Deutsche Forschungsgemeinschaft, and various industrial contracts. Most of them as PI.

SUPERVISION OF JUNIOR RESEARCHERS

- Team: My team currently consist of 12 active members.
- Supervision of 1 assistant professor since 2020:
Giuseppe Cantarella
 - Supervision and co-supervision of 14 PhD students since 2017:
Carlos Beltrami, Júlio Costa, Giuseppe Fratta, Albert Lanthaler, Sebastian Nufer, Sean Ogilvie, Deck Tan, Filippo Spina, Christabel Choi, Alexander Johnson, Hugo Oliveira, Niloofar Saeedzadeh Khaanghah, Federica Catania, Zahid Husain Qazi
 - Supervision of 8 postdoctoral research fellows since 2018:
Leonardo Garcia-Garcia, Pasindu Lugoda, Arash Pour-Yazdan, Nimal Jagadeesh Kumar, George Valsamakis, Alejandro Carrasco Pena, Dianne Corsino, Deepa Bhatt
 - Supervision of 4 technologists / technicians since 2018:
Enrico Avancini, Daniel Bartlett, Paul Kreitmair, Philip Reynes-Matter

TEACHING ACTIVITIES

- Electrical engineering:
- “Sensor Systems and Applications” (BEng), 2017-2019 [University of Sussex]
 - “Smart Interactive Systems” (BEng), 2019 [University of Sussex]
 - “Electrical Circuits and System Design” (BEng), 2015-2018 [University of Sussex]
- Physics:
- “Physics I”, in German (BSc), since 2020 [University of Bozen-Bolzano]

- “Physics II” in German (BSc), since 2020 [University of Bozen-Bolzano]
- “Physics for wood engineers” -in German (BSc), 2020, 2022 [University of Bozen-Bolzano]
- “Fundamentals of Physics” (BSc), 2020, 2023 [University of Bozen-Bolzano]
- “Applied Technology” (BEng, BSc), 2017 [University of Sussex]

- Student projects:
- Supervision of 16 Master students [ETH Zürich, University of Sussex]
 - Supervision of 22 Bachelor students [University of Sussex, University of Bozen-Bolzano]

BOARD MEMBERSHIPS & REVIEWING ACTIVITIES

Since 2020: Associate Editor in Flexible Electronics: “Frontiers in Electronics”

Since 2017: Editorial board member of “Technologies”

Conference organization: Different international events such as: E-MRS spring meeting symposium R 2024 (co-organizer); IEEE FLEPS conference 2023, 2024 (track chair); EFRE Seminar 2023 (organizer).

Reviewing activities:

Publishers:

- >50 journals e.g.: ACS Applied Materials & Interfaces; Applied Physics Letters; Advanced Materials; Advanced Functional Materials; Advanced Materials Interfaces; Advanced Electronic Materials; Journal of Applied Physics; IEEE Electron Device Letters; IEEE Microwave and Wireless Components Letters; IEEE Open Journal of the Solid-State Circuits Society; IEEE Sensors Journal, IEEE Transactions on Biomedical Circuits and Systems; IEEE Transactions on Electron Devices; Nature Electronics.; Nature Materials; Nature Communications; npj-Flexible Electronics; Optics Express; Physica Status Solidi; Small; Textile Research Journal; Thin Solid Films etc.

- Book publishers including: IOP books, CRC press, Cambridge University Press

Projects:

- Funding agencies e.g.: Royal Society, Engineering and Physical Sciences Research Council, European Commission, DAAD, Austrian Science Fund, Dutch Research Commission, Academy of Finland, etc.

- Vice Chair (Quality Control), European Commission (since 2019)

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

Since 2016 Fellow of the Higher Education Academy UK

Since 2012 Senior Member IEEE (Member until 2020)

- Since 2019: Member IEEE Electron Device Society
- Since 2020: IEEE Circuit and Systems Society

Since 2002 Member of the German Physical Society

PUBLICATIONS

In total more than 150 peer reviewed publications in journals, books and conference proceedings:

Number of citations: >4000	H-index: 34	i10-index: 68
First author: 22	Last author: 43	Corresponding author: 27
Journals: 80	Conference proceedings: 71	Invited review papers: 3

Among others, this research was featured on multiple cover pages including Advanced Materials, Advanced Electronic Materials, IEEE Flexible Electronics Journal, and Advanced Engineering Materials:

