Curriculum Vitae for Prof. Dr. techn Jan Torgersen

Education

05/2010-03/2013:	Institute of Materials Science and Technology, Vienna University of Technology, graduated with PhD in Industrial Engineering.
2004-2010:	Vienna University of Technology, graduated with Dipl.-Ing. in Industrial Engineering

Employment

08/2022-present	Chair Holder, Chair of Materials Science, Department of Materials Engineering, TUM School of Engineering and Design, Technical University of Munich, Germany
08/2022-present	Head of the State Materials Testing Facility for Mechanical Engineering, TUM School of Engineering and Design, Technical University of Munich, Germany
01/2020-07/2022	Professor, Department of Mechanical and Industrial Engineering, NTNU Trondheim, Norwegian University of Science and Technology, Norway
09/2016-12/2019	Associate Professor, Department of Mechanical and Industrial Engineering, NTNU Trondheim, Norwegian University of Science and Technology, Norway
07/2016-present	Visiting Associate Professor, Department of Mechanical Engineering, Stanford University, USA
02/2014-07/2016:	Post-doctoral research fellow at Nanoscale Prototyping Laboratory, Stanford University, USA
05/2010-12/2013:	Project Assistant at the Institute of Material Science and Technology, Vienna University of Technology, Austria

Publications and Citations

J. Torgersen is author of 94 publications in International Journals. H-index: 28, citations: 2700 (Google Scholar) and H-index 24, citations 2087 (scopus) Author ID 55210289500.

Competitive Grant Funding

From 01/2025	PRECISE: PRedicting wear of thErmally sprayed abradable sprayable CoatIngs for compressor SEals, (400k€, 4 years), Principal Applicant
From 01/2024	HIGH-CAT High Performance Cathode-Electrolyte Interfaces for Solid Battery, Industry Project, Sponsor Oerlikon, (400k€, 4 years), Principal Applicant
From 05/2021	ELECTRODE- Exploring the Limits of Mass transport in Electro Chemical Energy Converters ThRough uncOnstrained Design and Interface Engineering, ERC Starting Grant (1.5M€, 5 years), European Research Council, Principal Applicant
From 05/2021	INCITE- Immune Niches for Cancer ImmunoTherapy Enhancement, Future Emerging Technology (FET) Open Project (4M€, 4 years), European Innovation Council, Participant
08/2020- 07/2022	IN-SANE- IN-situ Studies of highly conductive bonded interfaces between Aluminium and copper at the Nano-scaleE (1M€, 3 years), Research Council of Norway, Participant
04/2019-03/2021	SERAM- Horizon 2020 Project for Fracture and Fatigue Behavior of Additive Manufactured Components (2M€, 3 years), European Union, Participant
09/2018- 11/2022	PhD fellowship in Emerging Nanotechnologies, (400 k€, 4 years), NTNU, Project Leader
09/2018-05/2022	FRINATEK for Thin Film Synthesis (900 k€, 3 years), Norwegian Research Council, Project Leader
08/2018-05/2021	Topology Optimization of Subsea Manifolds, Aker Solutions AS, 10k€/ year

06/2018-05/2021	PROKAM- Progress Through Knowledge in Additive Manufacturing, DNV-GL AS, 20k€/year, Project Leader
02/2018-01/2020	CARETEAM- Cross Atlantic Excellence in Research and Teaching for next generation Additive Manfuacturing, (30k€, 2 years), Center for International Education, Project Leader
03/2016-12/2020	NTNU Grant for the employment of an international chair, (20k€ per year for 5 years), Principal Applicant
11/2016-10/2017	Forsprung 2018, surface engineering for reducing ski friction, financed by Olympiatoppen Norway (1mill€), Participant
03/2016	NTNU Grant for Infrastructure (100k€), Principal Applicant
08/2016-05/2022	Mobile Additive Manufacturing, Fieldmade AS, 10k€/year
07/2016-06/2018:	Additive bio manufacturing: 3D Printing for Medical Recovery and Human Enhancement, (300k€), Participant
02/2014-07/2016:	Novel precursors for Atomic Layer Deposition of high-k thin films, BASF, CO Germany, Samsung CO, South Korea, (1Ml€/year), Participant
02/2014-11/2015:	Nucleation and growth during Atomic Layer Deposition on micro- and nanostructured polymers, FWF Austria, 60k€, Principal Applicant

Selected Journal Editorial Positions
Founder, Scientific Board Member and Organizer of the European Conference on Structural Integrity of Additive Manufactured Materials (ESIAM).

Lectures and Invited Addresses
Invited/Plenary speaker at more than 260 national and international symposia, conferences, and universities.

PhD Supervision and Examination
J. Torgersen supervised 5 PhD students and more than 40 master students.

Industry Consultancy/Collaborations
Panel member for the evaluation of research and professional activity of research-oriented institutes of the Czech Academy of Sciences for the period 2015–2019. Board Member, Fieldmade AS, Lillestrøm, Norway. Editorial board member and founder, Materials Design and Processing Communications, Wiley.

Public Outreach and Engagement
The race to the bottom -- accelerating nano 3D printing (https://www.youtube.com/watch?v=2V4DwZmQenY) – TEDxVienna

Selected Publications
[1] “Hydrogels for two-photon polymerization: a toolbox for mimicking the extracellular matrix” **J Torgersen**, XH Qin, Z Li, A Ovsianikov, R Liska, J Stampfl, Advanced Functional Materials 23 (36), 4542-4554. [2] “Photo-sensitive hydrogels for three-dimensional laser microfabrication in the presence of whole organisms” **J Torgersen**, A Ovsianikov, V Mironov, N Pucher, X Qin, Z Li, K Cicha, T Machacek, R Liska, V Jantsch, J Stampfl, Journal of biomedical optics 17 (10), 105008-105008. [3] “Fatigue strength of blunt V-notched specimens produced by selective laser melting of Ti-6Al-4V” N Razavi, P Ferro, F Berto, **J Torgersen**, Theoretical and Applied Fracture Mechanics 97, 376-384 . [4] “. Xu, Y. Kim, J. Park, D. Higgins, S.-J. Shen, P. Schindler, D. Thian, J. Provine, J. Torgersen, T. Graf, T.D. Schladt, M. Orazov, B.H. Liu, T.F. Jaramillo, F.B. Prinz, Extending the limits of Pt/C catalysts with passivation-gas-incorporated atomic layer deposition, Nat Catal 1 624–630. [5] “Comparing physiologically relevant corrosion performances of Mg AZ31 alloy protected by ALD and sputter coated TiO2” M Peron, AB Afif, A Dadlani, F Berto, **J Torgersen**, Surface and Coatings Technology 395, 125922 . [6] “Relating Electronic and Geometric Structure of Atomic Layer

Deposited BaTiO3 to its Electrical Properties" **J Torgersen**, S Acharya, A Dadlani, I Petousis, Y Kim, O Trejo, D Nordlund, F Prinz, The Journal of Physical Chemistry Letters 7 (8), 1428-1433