

Name: Jan Torgersen  
Academic degree: Dipl.-Ing. Dr. techn.  
Nationality: Austrian  
Marital Status: Married, 1 child  
Date of birth: Aug 6<sup>th</sup>, 1984  
Place of birth: Vienna  
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### 1. Employment

09/2016-present 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

### 2. 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  
1995-2003: High School, Vienna

### 3. Academic Appointment

09/2016-present Associate Professor at the Department of Mechanical and Industrial Engineering, NTNU Trondheim, Norwegian University of Science and Technology, Norway  
07/2016-present Visiting Associate Professor at Stanford University, Department of Mechanical Engineering, Stanford, USA  
02/2014-07/2016: Scientific researcher at the Nanoscale Prototyping Laboratory, Department of Mechanical Engineering, Stanford University, USA  
05/2010-12/2013: Scientific researcher at the Institute of Material Science and Technology, Department of Mechanical Engineering, Austria

#### 4. Languages

Mother Tongue:	German
Fluent:	English, Norwegian
Advanced:	French
Beginner:	Italian, Spanish

#### 5. Research Grants and Financed Projects

From 08/2020	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
From 04/2019	SERAM- Horizon 2020 Project for Fracture and Fatigue Behavior of Additive Manufactured Components (2M€, 3 years), European Union, Participant
From 09/2018	PhD fellowship in Emerging Nanotechnologies, (400 k€, 4 years), NTNU, Project Leader
From 09/2018	FRINATEK for Thin Film Synthesis (900 k€, 3 years), Norwegian Research Council, Project Leader
From 08/2018	Topology Optimization of Subsea Manifolds, Aker Solutions AS, 10k€/ year
From 06/2018	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 Manufacturing, (30k€, 2 years), Center for International Education, Project Leader
From 03/2016	NTNU Grant for the employment of an international chair, (20k€ per year for 5 years), Principal Applicant
From 11/2016	Forsprung 2018, surface engineering for reducing ski friction, financed by Olympiatoppen Norway (1mill€), Participant
03/2016:	NTNU Grant for Infrastructure (100k€), Principal Applicant
From 08/2016	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, (1M€/year), Participant
02/2014-11/2015:	Nucleation and growth during Atomic Layer Deposition on micro- and nanostructured polymers, FWF Austria, 60k€, Principal Applicant
06/2010-05/2013:	PHOCAM-Photopolymers customized for additive manufacturing, FP7-NMP, <a href="http://cordis.europa.eu/project/rcn/94812_en.html">http://cordis.europa.eu/project/rcn/94812_en.html</a> , Participant

#### 6. Industrial cooperation

From 08/2018	Aker Solutions AS, Design for Additive Manufacturing
From 08/2016	Fieldmade AS, Design for Additive Manufacturing

08/2018-02/2019	Schlumberger, Adhesion Characterization
04/2018-05/2019	DNV-GL AS, Failure Prediction in Additive Manufacturing
02/2014-07/2017	BASF CO Germany and Intel CO USA, high-k thin films
02/2014-08/2015	Samsung CO South Korea, low wet-etch rate thin films
06/2013-05/2013	Siemens CO Germany, Broell GmbH & Co KG Austria, Visitec CO Norway, In-Vision GmbH Austria, PHOCAM project

## **7. Teaching Activities:**

Since 2018	311.170 Mechanical Behavior of 3D printed components: Opportunities and challenges in future design, TU Wien, Vienna, Austria
Since 2018	Seminars on Additive Manufacturing for Norwegian Industry, hosted by DNV-GL AS Høvik, Norway
Since 2017	ME 232 Additive Manufacturing- From Fundamentals to Applications, graduate course, Stanford University, Stanford, USA
Since 2017	TMM 4121 Topology Optimization in Engineering Design, undergraduate course, NTNU Trondheim, Trondheim, Norway
Since 2017	Regular Guest Lectures in TMM4160 Fracture Mechanics, TMM4190 Fatigue Design, TPK4440 Machining and Additive Manufacturing, TMM4182 Forming and Casting of Metals, NTNU Trondheim, Norway
Since 2016	TMM 4221 Machine Elements, undergraduate course, NTNU Trondheim, Norway
2017-2018	TMM4112 Engineering Design, undergraduate course, NTNU Trondheim, Norway
2015-2016	ME 260: Fuel Cell Science and Technology, graduate course, Stanford University, Stanford, USA
2014-2015	Fundamentals of Additive Manufacturing, seminars, Stanford University, Stanford, USA
Since 2014	Guest lectures on Additive Manufacturing, Santa Clara University, Santa Clara, USA

## **8. Consulting & Memberships**

Since 2019	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
Since 2019	Founder, Scientific Board Member and Organizer of the European Conference on Structural Integrity of Additive Manufactured Materials (ESIAM)
Since 2018	Board Member, Fieldmade AS, Lillestrøm, Norway

Since 2017	Editorial board member and founder, Materials Design and Processing Communications, Wiley
2017-2018	Editorial Board Member of Advances in Mechanical Engineering, SAGE Publishing
2016- 2018	Consultant for the Austrian Academy of Sciences, Vienna, Austria
Since 2016	Affiliate of the Mechanical Engineering Department, Stanford University, Stanford, USA
Since 2016	Member of Technical Committee 15, Structural Integrity of Additive Manufacturing

## 9. Prizes and Awards

2019	NTNU Outstanding Academic Fellow, Trondheim, Norway
2016	Best Reviewer Award, Journal of Applied Fracture Mechanics
2016	Top 10% paper, Journal of Physical Chemistry, 2016
2014	Research Fellowship, Austrian Science Fund, Vienna, Austria
2013	Top 5% paper, Advanced Functional Materials,
2013	Peter-Emil Varga Prize for dissertation in Materials Science
2010	Merit-based scholarship from Vienna University of Technology
2009	Merit based scholarship from the county of Lower Austria

## 10. Publications in peer-reviewed Journals

J. Torgersen is author of 61 publications in International Journals. H-index: 16, citations: 1190 (Google Scholar) and H-index 15, citations 927 (scopus) Author ID 55210289500.

- [1] H.J.D. Johnsen, A. Aksnes, **J. Torgersen**, Beam-steering lens arrays and etendue-squeezing: a pathway towards a new class of solar concentrators?, in: Nonimaging Optics: Efficient Design for Illumination and Solar Concentration XVII, International Society for Optics and Photonics, 2020: p. 1149509.
- [2] D. Evans, T. Holstad, A. Mosberg, D. Småbråten, P. Vullum, A. Dadlani, Z. Yan, E. Bourret, D. Gao, J. Akola, **J. Torgersen**, A. van Helvoort, S. Selbach, D. Meier, Conductivity control via minimally invasive anti-Frenkel defects in a functional oxide, Nature Materials. accepted
- [3] M. Peron, A. Bin Afif, A. Dadlani, F. Berto, **J. Torgersen**, Improving stress corrosion cracking behavior of AZ31 alloy with conformal thin titania and zirconia coatings for biomedical applications, Journal of the Mechanical Behavior of Biomedical Materials. accepted
- [4] H.J.D. Johnsen, A. Aksnes, **J. Torgersen**, High-performance stationary solar tracking through multi-objective optimization of beam-steering lens arrays, Opt. Express, OE. 28 (2020) 20503–20522.
- [5] M. Peron, A. Bin Afif, A. Dadlani, F. Berto, **J. Torgersen**, Comparing physiologically relevant corrosion performances of Mg AZ31 alloy protected by ALD and sputter coated TiO<sub>2</sub>, Surface and Coatings Technology. 395 (2020) 125922.
- [6] M. Peron, P.C. Skaret, A. Fabrizi, A. Varone, R. Montanari, H.J. Roven, P. Ferro, F. Berto, **J. Torgersen**, The effect of Equal Channel Angular Pressing on the stress corrosion cracking

- susceptibility of AZ31 alloy in simulated body fluid, *Journal of the Mechanical Behavior of Biomedical Materials*. 106 (2020) 103724.
- [7] A.B. Afif, A.L. Dadlani, S. Burgmann, P. Köllensperger, **J. Torgersen**, Atomic layer deposition of perovskites—Part 1: Fundamentals of nucleation and growth, *Material Design & Processing Communications*. 2 (2020) e114.
- [8] A.B. Afif, A.L. Dadlani, S. Burgmann, P. Köllensperger, **J. Torgersen**, Atomic layer deposition of perovskites part 2: Designing next generation electronic applications, *Material Design & Processing Communications*. 2 (2020) e115.
- [9] M. Peron, R. Bertolini, A. Ghiotti, **J. Torgersen**, S. Bruschi, F. Berto, Enhancement of stress corrosion cracking of AZ31 magnesium alloy in simulated body fluid thanks to cryogenic machining, *Journal of the Mechanical Behavior of Biomedical Materials*. 101 (2020) 103429.
- [10] O. Trejo, A.L. Dadlani, F. De La Paz, S. Acharya, R. Kravec, D. Nordlund, R. Sarangi, F.B. Prinz, **J. Torgersen**, N.P. Dasgupta, Elucidating the Evolving Atomic Structure in Atomic Layer Deposition Reactions with in Situ XANES and Machine Learning, *Chem. Mater.* 31 (2019) 8937–8947.
- [11] H.J.D. Johnsen, A. Aksnes, **J. Torgersen**, Pushing the limits of beam-steering lens arrays, in: R. Winston, E. Yablonovitch (Eds.), *Nonimaging Optics: Efficient Design for Illumination and Solar Concentration XVI*, SPIE, San Diego, United States, 2019: p. 10.
- [12] H.J.D. Johnsen, **J. Torgersen**, A. Aksnes, High-concentration wide-angle tracking integration with stacked lens arrays, *AIP Conference Proceedings*. 2149 (2019) 070005.
- [13] M. Peron, **J. Torgersen**, F. Berto, Effect of Zirconia ALD coating on stress corrosion cracking of AZ31 alloy in simulated body fluid, *Procedia Structural Integrity*. 18 (2019) 538–548.
- [14] M. Peron, **J. Torgersen**, F. Berto, Assessment of tensile and fatigue behavior of PEEK in a physiologically relevant environment, 1. 13 (2019) 425–436.
- [15] M. Peron, **J. Torgersen**, P. Ferro, F. Berto, Fracture behaviour of notched as-built EBM parts: Characterization and interplay between defects and notch strengthening behaviour, *Theoretical and Applied Fracture Mechanics*. 98 (2018) 178–185.
- [16] M. Peron, **J. Torgersen**, F. Berto, A Novel Approach for Assessing the Fatigue Behavior of PEEK in a Physiologically Relevant Environment, *Materials*. 11 (2018) 1923.
- [17] S.M.J. Razavi, P. Ferro, F. Berto, J. Torgersen, Fatigue strength of blunt V-notched specimens produced by selective laser melting of Ti-6Al-4V, *Theoretical and Applied Fracture Mechanics*. 97 (2018) 376–384.
- [18] H.J.D. Johnsen, A. Aksnes, **J. Torgersen**, Solar tracking using beam-steering lens arrays, in: R. Winston, E. Yablonovitch (Eds.), *Nonimaging Optics: Efficient Design for Illumination and Solar Concentration XV*, SPIE, San Diego, United States, 2018: p. 4.
- [19] S. Xu, Y. Kim, J. Park, D. Higgins, S.J. Shen, P. Schindler, D. Thian, J. Provine, **J. Torgersen**, T. Grad, T. Schladt, M. Orazov, B. H. Liu, F. Prinz; Extending the limits of Pt/C catalysts with passivation-gas-incorporated atomic layer deposition, *Nature Catalysis*, 8 (2018), 624-630
- [20] M. Peron, **J. Torgersen**, F. Berto; Rupture Predictions of Notched Ti6Al4V by local approaches, *Materials* 11 (2018), 5
- [21] P. Boucher, A. Ferrari, M. Baumann, C. Coenen, D. Frank, L. Hennen, A. Moniz, H. Torgersen, **J. Torgersen**, L. Van Bodegom, F. Van Duijne, I. Geesing, B. Van der Meulen, E. Mordini, K. Riisgaard, R.Ø. Nielsen, 3D bio-printing for medical and enhancement purposes: in-depth analysis., European Parliament, Directorate-General for Parliamentary Research Services, 2018. [http://publications.europa.eu/publication/manifestation\\_identifier/PUB\\_QA0118636ENN](http://publications.europa.eu/publication/manifestation_identifier/PUB_QA0118636ENN) (accessed June 21, 2020).
- [22] S.M.J. Razavi, G.G. Bordonaro, P. Ferro, **J. Torgersen**, F. Berto, Fatigue Behavior of Porous Ti-6Al-4V Made by Laser-Engineered Net Shaping, *Materials*. 11 (2018) 284.
- [23] F. Berto, S.M.J. Razavi, **J. Torgersen**, Frontiers of fracture and fatigue: Some recent applications of the local strain energy density, *Frat. Ed Integrità Strutt.* 12 (2018) 1–32.
- [24] S.M.J. Razavi, L. Sandnes, J. Torgersen, F. Berto, S.M.J. Razavi, L. Sandnes, **J. Torgersen**, F. Berto, The effect of fiber orientation on fracture response of metallic fiber-reinforced adhesive thin films, The effect of fiber orientation on fracture response of metallic fiber-reinforced adhesive thin films, *Theor. Appl. Mech. Lett.* 8 (2017) 0–0.
- [25] M. Peron, S.M.J. Razavi, **J. Torgersen**, F. Berto, Fracture Assessment of PEEK under Static

- Loading by Means of the Local Strain Energy Density, *Materials*. 10 (2017) 1423.
- [26] A. Dadlani, S. Acharya, O. Trejo, D. Nordlund, M. Peron, J. Razavi, F. Berto, F.B. Prinz, **J. Torgersen**, Revealing the Bonding Environment of Zn in ALD Zn(O,S) Buffer Layers through X-ray Absorption Spectroscopy, *ACS Appl. Mater. Interfaces*. 9 (2017) 39105–39109.
- [27] P. Ferro, M. Peron, S.M.J. Razavi, F. Berto, **J. Torgersen**, The fatigue behavior of V-notches in presence of residual stresses: recent developments and future outcomes, *Fract. Struct. Integr.* 0 (2017) 189–195.
- [28] M. Peron, S.M.J. Razavi, F. Berto, **J. Torgersen**, L. Marsavina, Local strain energy density for the fracture assessment of polyurethane specimens weakened by notches of different shape, *Fract. Struct. Integr.* 0 (2017) 214–222.
- [29] M. Peron, S.M.J. Razavi, F. Berto, **J. Torgersen**, Fracture assessment of magnetostrictive materials, *Fract. Struct. Integr.* 0 (2017) 223–230.
- [30] M. Peron, S.M.J. Razavi, F. Berto, **J. Torgersen**, Notch stress intensity factors under mixed mode loadings: an overview of recent advanced methods for rapid calculation, *Fract. Struct. Integr.* 0 (2017) 196–204.
- [31] A. Campagnolo, S.M.J. Razavi, M. Peron, **J. Torgersen**, F. Berto, Mode II brittle fracture: recent developments, *Fract. Struct. Integr.* 0 (2017) 181–188.
- [32] M. Peron, **J. Torgersen**, F. Berto, Mg and its alloys for biomedical applications: Exploring corrosion and its interplay with mechanical failure, *Metals*. 7 (2017).
- [33] S.M.J. Razavi, M. Peron, **J. Torgersen**, F. Berto, F. Mutignani, Effect of hot dip galvanization on the fatigue strength of steel bolted connections, *Frat. Ed Integrità Strutt.* (2017).
- [34] S.M.J. Razavi, M. Peron, **J. Torgersen**, F. Berto, T. Welo, 40CrMoV13.9 notched specimens under multiaxial fatigue: An overview of recent results, *Frat. Ed Integrità Strutt.* 11 (2017) 440–446.
- [35] S.M.J. Razavi, M. Peron, **J. Torgersen**, F. Berto, Notched graphite under multiaxial loading, *Frat. Ed Integrità Strutt.* 11 (2017) 424–431.
- [36] S.M.J. Razavi, P. Ferro, F. Berto, **J. Torgersen**, Fatigue strength of blunt V-notched specimens produced by selective laser melting of Ti-6Al-4V, *Theor. Appl. Fract. Mech.* (2017).
- [37] P. Gallo, S.M.J. Razavi, M. Peron, **J. Torgersen**, F. Berto, Creep behavior of v-notched components, *Frat. Ed Integrità Strutt.* 11 (2017) 456–463.
- [38] S.M.J. Razavi, F. Berto, M. Peron, **J. Torgersen**, Parametric study of adhesive joints with non-flat sinusoid interfaces, *Theor. Appl. Fract. Mech.* (2017).
- [39] F. Berto, **J. Torgersen**, A. Campagnolo, A review of the fatigue strength of structural materials under multiaxial loading in terms of the local energy density, *Eng. Solid Mech.* 5 (2017) 245–270.
- [40] S.M.J. Razavi, M. Peron, F. Mutignani, **J. Torgersen**, F. Berto, Fatigue Strength of Hot-Dip Galvanized Welded Steel Connections, *Key Eng. Mater.* 754 (2017) 244–247.
- [41] S.M.J. Razavi, M. Peron, **J. Torgersen**, F. Berto, The Effect of Interface Geometry on the Mechanical Behavior of Adhesive Joints, *Key Eng. Mater.* 754 (2017) 256–259.
- [42] S.M.J. Razavi, M. Peron, F. Mutignani, **J. Torgersen**, F. Berto, A Study on the Fatigue Behavior of Hot Dip Galvanized Steel Connections, *Key Eng. Mater.* 754 (2017) 241–243.
- [43] S.M.J. Razavi, M. Peron, **J. Torgersen**, F. Berto, Static Multiaxial Fracture Behavior of Graphite Components: A Review of Recent Results, *Key Eng. Mater.* 754 (2017) 35–38.
- [44] J. Shim, H. Choi, Y. Kim, **J. Torgersen**, J. An, M. Lee, F. Prinz: “Process property relation for high-k ALD perovskite oxides: A Review”, *J.o. Material Chemistry C*, under review
- [45] A. Dadlani, S. Acharya, F. Prinz, **J. Torgersen**: “ALD Zn(O,S) thin films’ chemical and structural changes at interfaces probed by XAS”, *ACS Applied Materials & Interfaces*, 8 (2016), 14323-14327
- [46] **J. Torgersen**, S. Acharya, A. Dadlani, I. Petousis, D. Nordlund, O. Trejo, F. Prinz: “Relating electronic and geometric structure of high-k, ultrathin ALD BaTiO<sub>3</sub> and its effect on the dielectric properties”, *J. o. Physical Chemistry Letters*, 7 (2016), 1428-1433
- [47] G. Diankov, J. Park, C. Ophus, P. Ercius, J. An, E. Santos, **J. Torgersen**, R. Sinclair, D. Goldhaber-Gordon and F. Prinz: “Epitaxial growth of platinum nanoparticles on graphene”, *Science*, under review
- [48] J. Provine, P. Schindler, **J. Torgersen**, H. Kim, H. Karnthaler, F. Prinz: “Molecular Oxygen

- Reactions with Tetrakisdimethylamido-metal precursors for Atomic Layer Deposition”, *J. o. Vacuum Science and Technology A: Vacuum Surface, Film*, 34 (2016), 01A138
- [49] S. Acharya, \* **J. Torgersen**,\* S. Walch, P. Schindler, Y. Kim, S. Xu, T. Usui, C. Schildknecht, F. Prinz: “Self-limiting Atomic Layer Deposition of Barium Oxide and Barium Titanate Thin Films Using a Novel Pyrrole Based Precursor“, *J. o. Materials Chemistry C*, (2015). \*equally contributed, **(cover)**
- [50] A. Dadlani, O. Trejo, S. Acharya, **J. Torgersen**, I. Petousis, D. Nordlund, R. Sarangi, P. Schindler, F. Prinz: “Exploring local electronic structure and geometric arrangement of ALD Zn(O,S) buffer layers using X-Ray Absorption spectroscopy”, *J. o. Materials Chemistry C*, 3 (2015), 12192-12198
- [51] P. Petrochenko, **J. Torgersen**, P. Gruber, L. Hicks, J. Zheng, G. Kumar, R. J. Narayan, P. L. Goering, R. Liska, J. Stampfl, A. Ovsianikov: “Laser 3D printing with sub-microscale resolution of porous elastomeric scaffolds for supporting human bone stem cells”, *Advanced Healthcare Materials*, 4 (2015), 739-747
- [52] X. H. Qin, **J. Torgersen**, R. Saf, S. Mühleder, N. Pucher, S. C. Ligon, W. Holnthoner, H. Redl, A. Ovsianikov, J. Stampfl, R. Liska: “Three-dimensional microfabrication of protein hydrogels via two-photon-excited thiol-vinyl ester photopolymerization“, *Journal of Polymer Science Part A: Polymer Chemistry*, 51 (2013), 4799–4810 **(cover)**
- [53] Z. Li, **J. Torgersen**, A. Ajami, S. Mühleder, X. Qin, W. Husinsky, W. Holnthoner, A. Ovsianikov, J. Stampfl: “Initiation efficiency and cytotoxicity of novel water-soluble two-photon photoinitiators for direct 3D microfabrication of hydrogels”, *RSC Advances*, 3 (2013) 15939.
- [54] A. Ovsianikov, S. Mühleder, **J. Torgersen**, Z. Li, X. Qin, S. Van Vlierberghe, P. Dubruel, W. Holnthoner, H. Redl, R. Liska, J. Stampfl: “Laser Photofabrication of Cell-Containing Hydrogel Constructs”, *Langmuir* 30 (2013), 3787-3794. **(cover)**
- [55] **J. Torgersen**, X. Qin, Z. Li, A. Ovsianikov, P. Gruber, R. Liska, J. Stampfl: “Hydrogels for two-photon polymerisation: a toolbox for mimicking the extracellular matrix”, *Advanced Functional Materials* **(invited)** 23 (2013), 4542-4554.
- [56] Z. Li, N. Pucher, K. Cicha, **J. Torgersen**, S.C. Ligon, A. Ajami, W. Husinsky, A. Rosspeintner, E. Vauthey, S. Naumov, T. Scherzer, J. Stampfl, R. Liska: “A Straightforward Synthesis and Structure–Activity Relationship of Highly Efficient Initiators for Two-Photon Polymerisation”; *Macromolecules*, 46 (2013), 352-361.
- [57] **J. Torgersen**, A. Ovsianikov, V. Mironov, N.U Pucher, X.H. Qin, Z. Li, K. Cicha, T. Machacek, V. Jantsch-Plunger, R. Liska, J. Stampfl: "Photo-sensitive hydrogels for threedimensional laser micro-fabrication in the presence of whole organisms"; *Journal of Biomedical Optics*, 17 (2012), 10; 1 - 10.
- [58] R.A. Rezende, F.D.A.S Pereira, V. Kasyanov, A. Ovsianikov, **J. Torgersen**, P. Gruber, J. Stampfl, K. Brakke, J.A. Nogueira, V. Mironov, J.V.L. da Silva: “Design, physical prototyping and initial characterisation of “lockyballs””; *Virtual and Physical Prototyping*, 7 (2012), 287-301.
- [59] A. Ovsianikov, Z. Li, A. Ajami, **J. Torgersen**, W. Husinsky, J. Stampfl, R. Liska: “3D grafting via three-photon induced photolysis of aromatic azides”; *Applied Physics A: Materials Science & Processing*, 108 (2012), 1; 29 - 34.
- [60] A. Ovsianikov, Z. Li, **J. Torgersen**, J. Stampfl, R. Liska: "Selective Functionalization of 3D Matrices Via Multiphoton Grafting and Subsequent Click Chemistry"; *Advanced Functional Materials*, 22 (2012), 16; 3429 - 3433. **(cover)**
- [61] K. Cicha, T. Koch, **J. Torgersen**, Z. Li, R. Liska, J. Stampfl: "Young´s modulus measurement of two-photon polymerised microcantilevers by using nanoindentation equipment"; *Journal of Applied Physics*, 112 (2012), 094906.
- [62] **J. Torgersen**, A. Baudrimont, N.U Pucher, K. Stadlmann, K. Cicha, C. Heller, R. Liska, J. Stampfl: "In Vivo Writing using Two-Photon-Polymerisation"; *Laser Precision Micro-fabrication 2010*, Stuttgart, D; 2010-06-07 - 2010-06-10; in: "Proceedings of LPM2010", K. Sugioka (ed.); (2010), #10-42.

## 11. Books, Book Chapters and Editorials

- [1] M. Peron, F. Berto, **J. Torgersen**, Magnesium and Its Alloys as Implant Materials: Corrosion, Mechanical and Biological Performances, CRC Press, 2020.
- [2] F. Berto, **J. Torgersen**, M. Benedetti, S. Bagherifard, C. Bo, G. Qian, Special issue ESIAM19 theoretical and applied fracture mechanics, Theoretical and Applied Fracture Mechanics. 108 (2020) 102616.
- [3] F. Berto, L. Susmel, B.V. Hooreweder, **J. Torgersen**, G. Qian, Special Issue ESIAM19 International Journal of Fatigue, International Journal of Fatigue. 136 (2020) 105657.
- [4] **J. Torgersen**, CHAPTER 4. Efficient Photoinitiators for Two-Photon Polymerization, in: A. Tiwari, A. Polykarpov (Eds.), RSC Smart Materials, Royal Society of Chemistry, Cambridge, 2014: pp. 75–86.

## 12. Patent

- [1] F.B. Prinz, S. Xu, T. English, J. Provine, D. Thian, **J. Torgersen**, Atomic layer deposition with passivation treatment, US20190249301A1, 2019.

## 13. Students

- |                   |                                  |
|-------------------|----------------------------------|
| 11/2018-now       | Abdulla Bin Afif                 |
| 05/2018-now:      | Stephanie Burgmann               |
| 04/2018-now:      | Kristin Sirnes Ødegaard          |
| 03/2017-now:      | Håkon Dugstad Johnsen            |
| 02/2017- 05/2020: | Mirco Peron, now PostDoc at NTNU |

J. Torgersen supervised of 25 Master theses at NTNU Trondheim.