Curriculum vitae, Vidar Hansen

PERSONAL INFORMATION

*Vidar Hansen

*Date of birth: *30.05.1961*

*Sex: male

*Nationality: Norwegian

EDUCATION

1996	PhD: **Disputation date:** *12.03.1996.* Faculty of Mathematics and Natural Sciences /Department of Physics, University of Oslo, Norway
1989	Master Faculty of Mathematics and Natural Sciences /Department of Physics, University of Oslo, Norway

CURRENT AND PREVIOUS POSITIONS

2000-	Professor in materials technology, Faculty of Science and Technology/Department of Mechanical and Structural Engineering and Materials Science, University of Stavanger/Norway (IMBM/UiS)
2006-	Adjunct professor, University of Oslo
1996-2000	Researcher, Center of Materials Science/Department of Physics/University of Oslo, Norway
1995-1996	Project engagement, Center of Materials Science/Department of Physics/University of Oslo, Norway
1994-1995	Researcher, Center of Materials Science/Department of Physics/University of Oslo, Norway
1989-1994	Doctoral fellowship Center of Materials Science/Department of Physics/University of Oslo, Norway
1986 -1986	Adjunct, Berlevåg Skole, Finnmark, Norway

SUPERVISION OF GRADUATE STUDENTS AND RESEARCH FELLOWS AT:

Faculty of Science and Technology/Department of Mechanical and Structural Engineering and Materials Science, University of Stavanger/Norway

2006-	3 post doc
2001-2015	5 PhD
2002-	3 Guest researcher
2013-2020	13 Master
2013-2020	35 Bachelor

TEACHING ACTIVITIES

2005-	Course coordinator and lecturer in Materials Technology on bachelor level; currently around 100 students. (IMBM/UiS)
2000-	Course coordinator and lecturer in Electron Microscopy on master level (IMBM/UiS)
2012-	Participation in Mechanical Engineering Introductory course for first year bachelor students (IMBM/UiS)

INSTITUTIONAL RESPONSIBILITIES (if applicable)

2017-	Deputy Head of the IMBM/UiS department
2000-	Member of departmental boards and departments councils (currently Chairman).
2010-2011	Member of faculty assembly
2016-2017	Member of faculty board
2000-2016	Member of a Committee for PhD, master student theses
2004-2007	Member of UiS board for Forsker Forbundet (The Norwegian Association of Researchers)

Track record

In the track record, please list:

1. 38 papers in journals plus 8 papers in peer reviewed international conference proceedings.
2. Representative publications

R. Haakenaasen, E. Selvig, S. Hadzialic, T. Skauli, V. Hansen, J.E. Tibballs, L. Trosdahl-Iversen, H.Steen, S. Foss, J. Taftø, M. Halsall and J. Orr
Nanowires in the CdHgTe Material System
Journal of Electronic Materials, Vol. 37, 1311-17 (2008)

A. Kverneland, V. Hansen, G. Thorkildsen, H.B. Larsen, P. Pattison, X.Z. Li and J. Gjønnes
Transformations and structures in the Al-Zn-Mg alloy system: A diffraction study using synchrotron radiation and electron precession
Materials Science and Engineering A 528, 880 – 87 (2011)

M. Buxhuku, V. Hansen, P. Oleynikov and J. Gjønnes
The determination of rotation axis in in the rotation electron diffraction technique
Microscopy and microanalysis 19, 1276-80 (2013)

W. M. Tucho, P. Cuvillier, A. Sjolyst-Kverneland, V. Hansen
Microstructure and hardness studies of Inconel 718 manufactured by selective laser melting before and after solution heat treatment
Materials Science & Engineering A 689, 220–32 (2017)

M. Buxhuku, V. Hansen, J. Gjønnes
The measurement of intensities in the Rotation Electron Diffraction Technique
Micron 101, 103–07(2017)

W. M. Tucho, V. H. Lysne, H. Austbø, A. Sjolyst-Kverneland, V. Hansen
Investigation of effects of process parameters on microstructure and hardness of SLM manufactured SS316L
Journal of Alloys and Compounds 740, 910-25 (2018)

Tucho, Wakshum Mekonnen & Hansen, Vidar *Characterization of SLM-fabricated Inconel 718 after solid solution and precipitation hardening heat treatments. Journal of Materials Science*. *ISSN 0022-2461.54(1),s 823- 839* (2018).

M. L. Hjuler, V. Hansen, I. L. Fabricius
Interpretational challenges related to studies of chalk particle surfaces in scanning and transmission electron microscopy
Bulletin of the Geological Society of Denmark, 66, 151–65 (2018)

K. Guo, V. Hansen, H. Li, Z. Yu,
Monodispersed nickel and cobalt nanoparticles in desulfurization of thiophene for in-situ upgrading of heavy crude oil
Fuel, 211, 697–703 (2018)

Hansen, Vidar; Echevarria-Bonet, Cristina; Minde, Mona Wetrhus; Taftø, Johan
Determination of atomic positions and polar direction in half-Heusler material $Sb_{1-x}SnxTi_{1-y-z}Hf_yZr_zCo$ *using electron channeling.*
AIP Advances. ISSN 2158-3226. Volume 8. Hefte 12. (2018). 1-9. DOI: 10.1063/1.5042816.

Delimitis, Andreas; Hansen, Vidar & Gjønnes, Jon. *Geometry determination and refinement in the rotation electron diffraction technique.* Ultramicroscopy. ISSN 0304-3991. 201, s 68- 76. (2019) doi: 10.1016/j.ultramic.2019.02.011

Hansen, Vidar; Kosinskiy, Andrey; Taftø, Johan *Distinguishing space groups by electron channelling: centrosymmetric full-Heusler or non-centrosymmetric half-Heusler?* Acta Crystallographica Section A: Foundations and Advances ISSN 2053-2733. Volum A76. s.211-213. (2020) DOI: 10.1107/S2053273319016942

Marius Aga Belsvik, Wakshum M. Tucho & Vidar Hansen
Microstructural studies of direct-laser-deposited stainless steel 316L-Si on 316L base material
SN Applied Sciences volume 2, Article number: 1967 (2020)

Nirosha D. Adasooriya, Wakshum Mekonnen Tucho, Erlend Holm, Terje Årthun, Vidar Hansen, Karl Gunnar Solheim, Tor Hemmingsen
Effect of hydrogen on mechanical properties and fracture of martensitic carbon steel under quenched and tempered conditions Materials Science & Engineering A
Materials Science & Engineering A, **In press**