

Curriculum Vitae Ken Haenen

Prof. Dr Ken Haenen
Group Leader Wide Band Gap Materials (WBGm)

Hasselt University & IMEC vzw
Institute for Materials Research (IMO) & IMOMEc
Materials Physics Division
Wetenschapspark 1
B-3590 Diepenbeek
Belgium



Phone: +32 11 268 875 | Fax: +32 11 268 899

E-mail: ken.haenen@uhasselt.be

Web: www.uhasselt.be/IMO

LinkedIn: www.linkedin.com/in/ken-haenen

Ken Haenen, a Full Professor of Experimental Physics, is currently Vice-Rector Research, Valorisation, and Internationalisation at Hasselt University, Belgium, where he obtained his PhD degree in physics in 2002. He is also a guest professor at IMEC, Belgium. Ken is Editor-in-Chief of Diamond and Related Materials, Section Editor of MethodsX (Materials Science), and an Editorial Board Member of Scientific Reports and Physica Status Solidi. He is involved in the organisation of several leading international diamond and nanocarbon conferences, including the International Conference on Diamond and Carbon Materials (Chair), Hasselt Diamond Workshop (Co-Chair), and New Diamond and Nano Carbons (Executive Committee). He has also organised MRS symposia on carbon functional interfaces at the 2011 and 2013 MRS Spring Meetings, served as a co-chair of the 2015 MRS Spring Meeting, and is currently the Chair of the MRS Program Development Subcommittee, and a member of the Early Career Professional Engagement Subcommittee. Since 1997, Ken's research interests focus on CVD diamond, including its deposition, optoelectronic characterisation, surface functionalisation, and diamond-based devices, as part of a broader scope on carbon materials for energy harvesting and conversion. To date, he has authored over 245 peer-reviewed publications.

Academic titles and qualifications

- 2020 - now Vice-Rector Research, Valorisation, and Internationalisation, Hasselt University, Belgium
2020 - now Member of the Workgroup "Research & Innovation", Flemish Interuniversity Council (VLIR), Belgium
2020 - now Member of the Workgroup "Research Policy", Research Foundation-Flanders, Belgium
2018 - now Member Statutory Advisory Committee, Hasselt University, Belgium
2016 - now Member for Hasselt University of the Working Group on Space (Research), Flemish Advisory Council for Innovation & Enterprise (VARIO), Belgium
2015 - now Guest Professor (10 %), IMEC vzw, Belgium
2008 - now Professor of Experimental Physics, Hasselt University, Belgium
(2008 - 2012: assistant professor/"docent"; 2013 - 2015: associate professor/"hoofddocent"; 2016 - 2018: professor/"hoogleraar"; from 2019: full professor/"gewoon hoogleraar")
2004 - now Group Leader Wide Band Gap Materials (WBGm) @ IMOMEc of IMEC vzw, Belgium
2004 - now Group Leader Wide Band Gap Materials (WBGm) @ the Institute of Materials Research of Hasselt University, Belgium
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- 2019 - 2020 Member of the Cross-Domain Panel, Research Foundation-Flanders, Belgium (1 year + 11 months)
2019 - 2020 Member of the Fellowship Expert Panel "W&T3: Condensed Matter and Physical Chemistry", Research Foundation-Flanders, Belgium (2 years)
2018 - 2020 Member for Hasselt University of the Subgroup Doctoral Schools, Flemish Interuniversity Council (VLIR), Belgium (2 years + 4 months)
2016 - 2020 Chairman Department of Physics, Hasselt University, Belgium (4 years)
2016 - 2020 Director Doctoral School of Sciences & Technology, Hasselt University, Belgium (4 years)
2014 - 2018 Member Research Council, Hasselt University, Belgium (4 years + 3 months)
2014 - 2018 External Examiner MSc Diamond Science and Technology, University of Warwick, UK (4 years)
2013 - 2018 Substitute member for Hasselt University of the Subgroup Doctoral Schools, Flemish Interuniversity Council (VLIR), Belgium (5 years)
2013 - 2016 Vice Dean Faculty of Sciences, Hasselt University, Belgium (3 years)
2013 - 2016 Member for Hasselt University of the Commission on Science Policy, Flemish Council for Science and Innovation (VRWI), Belgium (3 years)
2013 Chairman Department of Physics, Hasselt University, Belgium (8 months)
2012 - 2016 Vice Director Doctoral School of Sciences & Technology, Hasselt University, Belgium (4 years)
2004 National Institute for Materials Research (NIMS) / Advanced Material Laboratory (AML) Postdoctoral Fellowship, Japan (4 months)
2002 - 2008 Postdoctoral Fellow Research Foundation - Flanders @ Hasselt University, Belgium (6 years)
1998 - 2002 Doctor of Science - Physics, Hasselt University, Belgium (4 years)
1995 - 1997 Licentiate in Physics (eq. MSc), Katholieke Universiteit Leuven, Belgium (2 years)
1993 - 1995 Candidate in Physics (eq. BSc), Limburgs Universitair Centrum, Belgium (2 years)

Scientific publications

h-index: 39 (Web of Science) / 39 (Scopus) / 43 (Google Scholar)

Citations: ~ 5960 (WoS) / ~ 6415 (S) / ~ 8140 (GS)

Publications in peer-reviewed journals: 245

Patents: 2

Book chapters: 5

Publications in non peer-reviewed journals: 2


Publications in proceedings: 32

Guest Editorships: 20

More detailed information on publications can be found on:

 <http://orcid.org/0000-0001-6711-7367>

 <http://www.researcherid.com/rid/G-8783-2011>

Scopus  <http://www.scopus.com/authid/detail.uri?authorId=10045497000>

 <https://scholar.google.com/citations?user=17IIL18AAAAJ>

Other information

Membership of juries

Habilitations: 3 (France)

PhDs: 65 (25 UHasselt (supervisor: 10; co-supervisor: 6) + 40 external (Australia; Belgium; France; Ireland; Lithuania; Netherlands; Singapore; Spain; Sweden; UK))

Membership of editorial boards or guest editorship

- **Editor-in-Chief MethodsX (Materials Science)** (June 1, 2018 – ...)
- **Editor-in-Chief Diamond and Related Materials** (January 1, 2015 – ...)
- Editor Diamond and Related Materials (November 1, 2011 – December 31, 2014)
- Associate Editor Diamond and Related Materials (December 29, 2009 – October 31, 2011)
- **Editorial Board Member Scientific Reports** (May 19, 2015 – ...)
- **Editorial Advisory Board Member physica status solidi** (January 1, 2015 – ...)
- Editorial Board Member Journal of Materials (July 29, 2012 – June 4, 2017)
- Editorial Board Member ISRN Condensed Matter Physics (June 23, 2011 – February 28, 2014)
- Editorial Board Member ScienceJet (September 17, 2012 – June 30, 2013)
- Guest Editor of physica status solidi (a), annual Special Issue on “Fundamentals and Applications of Diamond and Nanocarbons”: 11 Special Issues (2004 – 2014)
- MRS Bulletin 2017 Volume Organiser
- Guest Editor MRS: Theme Issue on “CVD diamond—Research, applications, and challenges”, MRS Bulletin **39/6** (2014), Eds. R.J. Nemanich, J.A. Carlisle, A. Hirata, K. Haenen.
- Guest Editor MRS: MRS Proceedings Volume “Carbon Functional Nanomaterials, Graphene and Related 2D-Layered Systems” (Joint volume Symposia O/P/ZZ) & MRS Online Proceedings Library **1549** - 2013 MRS Spring Meeting - Symposium ZZ – Carbon Functional Interfaces – II, Eds. M. Terrones, S. Kar, K. Haenen, P.M. Ajayan, J.A. Garrido, A. Kaul, C.J. Lee, J.A. Robinson, J.T. Robinson, I.D. Sharp, S. Talapatra, R. Tenne, Ass. Eds. A.L. Elias, M. Paranjape, N. Kharche, ISBN 978-1-60511-526-9.
- Guest Editor MRS: MRS Online Proceedings Library **1362** - 2011 MRS Spring Meeting - Symposium QQ – Carbon Functional Interfaces, Eds. J.A. Garrido, K. Haenen, D. Ho, K.P. Loh.

Organisation of scientific conferences

- **Co-organiser of Hasselt Diamond Workshop – SBDD** (from SBDD XIII – 2008), annually. (<http://www.uhasselt.be/sbdd>)
- **Conference Chair of the International Conference on Diamond and Carbon Materials** (from Diamond 2014) (previously called European Conference on Diamond, Diamond-like Materials, Carbon Nanotubes, and Nitrides), annually. (<https://www.elsevier.com/diamond-conference>)

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- Co-Chair of the 2015 MRS Spring Meeting, Moscone West & San Francisco Marriott & The Westin San Francisco Market Street, San Francisco, CA, USA, April 6-10, 2015. (<http://www.mrs.org/spring2015>)
- Lead organiser of Symposium ZZ “Carbon Functional Interfaces II” of the 2013 MRS Spring Meeting, Moscone West & San Francisco Marriott & The Westin San Francisco Market Street, San Francisco, CA, USA, April 1-5, 2013.
- Lead organiser of Symposium QQ “Carbon Functional Interfaces” of the 2011 MRS Spring Meeting, Moscone West & San Francisco Marriott, San Francisco, CA, USA, April 25-29, 2011.
- Member of the Organising Committee of Engineering of Functional Interfaces 2013 (EnFI 2013), Hasselt University, Hasselt, Belgium, July 8-9, 2013.
- Co-organiser of Defects and Impurities in Crystalline Boron Nitride Compounds, Limburgs Universitair Centrum, Diepenbeek, Belgium, February 20-21, 2004.

Membership of committees of scientific conferences

- **Chair of the Program Development Subcommittee of the Materials Research Society** (January 1, 2021 – ...).
- Member of the Program Development Subcommittee of the Materials Research Society (September 23, 2016 – December 31, 2020).
- **Member of the Early Career Professional Engagement Subcommittee of the Materials Research Society** (March 1, 2019 – ...).
- Conference secretary (from SBDD V – 2000 to SBDD XVIII – 2013), member of the Program Advisory Board (from SBDD XI – 2006), co-organiser (from SBDD XIII – 2008), and programme chair (SBDD XVI – 2011) of Hasselt Diamond Workshop – SBDD (before SBDD XII – 2007 called Surface and Bulk Defects in CVD Diamond Films – SBDD), annually.
- Member of the International Committee of the International Conference on Diamond and Carbon Materials (from Diamond 2008 to Diamond 2013) (previously called European Conference on Diamond, Diamond-like Materials, Carbon Nanotubes, and Nitrides), annually.
- Member of the Young Scholar Award Committee of the International Conference on Diamond and Carbon Materials (from Diamond 2011 to Diamond 2013) (previously called European Conference on Diamond, Diamond-like Materials, Carbon Nanotubes, and Nitrides), annually.
- **Member of the Executive Committee of the International Conference on New Diamond and Nano Carbons** (from NDNC 2011), annually.
- Member of the Program Committee of the 5th International Conference on New Diamond and Nano Carbons (NDNC2011), Kunibiki Messe, Matsue City, Japan, May 16-20, 2011.
- Member of the International Advisory Committee of the 4th International Conference on New Diamond and Nano Carbons (NDNC2010), Garden Hotel, Suzhou, China, May 16-20, 2010.
- Member of the Program Committee of the 2nd International Conference on New Diamond and Nano Carbons (NDNC2008), Grand Hotel, Taipei, Taiwan, May 26-29, 2008.
- Member of the International Programme Committee of the 21st IMEKO TC-2 Symposium “Photonics in Measurement”, Gdansk, Poland, September 16-18, 2013.
- **Member of the International Scientific Committee of Plasma Thin film International Union Meeting – PLATHINIUM (PLATHINIUM 2019, PLATHINIUM 2021).**
- Member of the International Scientific Committee of Innovations in Thin Films Processing and Characterisation – ITFPC (ITFPC 2007, ITFPC 2009, ITFPC 2011, ITFPC 2015, ITFPC 2017).
- Member of the Scientific Advisory Board of Engineering of Functional Interfaces 2009 (EnFI 2009)”, Hasselt University, Diepenbeek-Hasselt, Belgium, June 18-19, 2009.
- Chairman of Elsevier’s Editors’ Conference, Berlin Marriott Hotel, Berlin, Germany, March 31-April 1, 2012.

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Participation at scientific conferences

- Attended: 120
- Invited presentations: 35
- Oral presentations: 54
- Poster presentations: 34

Reviewer assignments

- 2D Materials / ACS Applied Materials & Interfaces / ACS Omega / Acta Biomaterialia / Advanced Materials / AIP Advances / Analytical Chemistry / Angewandte Chemie International Edition / Applied Magnetic Resonance / Applied Physics Letters / Applied Surface Science / Carbon / Catalysis Science & Technology / Chemical Communications / Chemical Physics Letters / Chemical Vapor Deposition / Crystal Growth & Design / Defence Technology / Diamond and Related Materials / ECS Journal of Solid State Science and Technology / Electrochemistry Communications / ISRN Condensed Matter Physics / Japanese Journal of Applied Physics / Journal of Alloys and Compounds / Journal of Applied Physics / Journal of Crystal Growth / Journal of Materials Research / Journal of Materials Science / The Journal of Physical Chemistry / Journal of Vacuum Science and Technology A / Journal of Vacuum Science and Technology B / Materials Chemistry and Physics / Materials Letters / Materials Science and Engineering B / MRS Proceedings / Nanoscale / Nanoscale Research Letters / Nanotechnology / Nature Communications / Nature Materials / Nature Physics / Optical Materials / Physica B: Condensed Matter / physica status solidi (a) / physica status solidi (b) / physica status solidi (RRL) / Science Advances / Science and Technology of Advanced Materials / Scientific Reports / Sensor Letters / Sensors / Solid State Communications / Solid-State Electronics / Surface & Coatings Technology / Surface Science / Theoretical Chemistry Accounts / Thin Solid Films
- Agence Nationale de la Recherche (ANR), France / Agency for Innovation by Science and Technology (IWT), Belgium / Research Foundation – Flanders (FWO), Belgium / Center of Accelerators and Nuclear Analytical Methods (CANAM) of the Nuclear Physics Institute of the ASCR, v.v.i., Czech Republic / Czech Academy of Sciences (CAS), Czech Republic / Czech Science Foundation (GAČR), Czech Republic / European Research Council Executive Agency (ERCEA), Belgium / Deutsche Forschungsgemeinschaft (DFG), Germany / Deutscher Akademischer Austauschdienst (DAAD), Germany / European Science Foundation (ESF) (Région Grand Est), France / Fonds National de la Recherche Luxembourg (FNR), Luxembourg / Grant Agency of the Academy of Science of the Czech Republic, Czech Republic / Narodowe Centrum Nauki (NCN), Poland / Région Rhône-Alpes Programme CIBLE, France / Università di Roma "la Sapienza" – Progetti di Ricerca, Italy