

Prof. Jens Kreisel – CV

Academic Qualifications

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| 12/04 | Habilitation (<i>HDR</i>) | Grenoble INP (F) |
| 04/99 | Ph.D. Physics (<i>Docteur ès Sciences</i>) | Grenoble INP (F) |
| 03/96 | M.Sc. Physics (<i>Dipl.-Physiker</i>) | Universität Karlsruhe (D), now KIT |
| 08/95 | M.Sc. Materials Science (<i>DEA</i>) | Grenoble INP (F) |

Current Positions

Since 09/2018 **University of Luxembourg**
Vice-Rector for Research
Professor in Physics & Materials Science
FNR Pearl Chair

The University of Luxembourg, founded in 2003, is an international research university with a distinctly multilingual and interdisciplinary character. Founded in 2003, it employs more than 1700 researchers and staff from all over the world and has currently about 6,400 students.

As the Vice-Rector for research, JK is responsible for the University's research vision, strategy and agenda. Key responsibilities include the reinforcing of interdisciplinary and innovation initiatives. He represents the University in national and international scientific committees and organisations, establishes relations to relevant public and industry players and leads the Research Support Department of the University.

Past Positions

2012 - 2018 **Director of Department**
 Since 2015 Luxembourg Institute of Science and Technology (LIST)
 Department Materials Research and Technology (MRT)
 2012-2014 Centre de Recherche Gabriel Lippmann (CRP-GL)
 Département Science et Analyse des Matériaux (SAM)

LIST is Luxembourg's largest Public Research Centre and has been created in 2015 through the merger of the former CRP Gabriel Lippmann and CRP Henri Tudor. As the director of the department, JK provided leadership to the department, defined its strategy and had the management responsibility of up to 180 staff.

University of Luxembourg
 Since 2017 **Adjunct Professor in Physics & Materials Science**
 2013 - 2016 **Honorary Professor in Materials Science**

- 2011 – 2012** **Warwick University, Department of Physics, UK**
Sabbatical leave
 Fellow of the Institute of Advanced Studies (IAS)
- 2000 - 2012** **Centre National de Recherche Scientifique (CNRS), Grenoble, F**
 Laboratoire des Matériaux et du Génie Physique (UMR CNRS- Grenoble INP)
 2000 - 2004 **Researcher**
 2004 - 2009 **Senior Researcher**
 2009 **Director of Research** (leave of absence since 2012)
- 2002- 2011** **Institut Polytechnique de Grenoble (Grenoble INP), F**
 Grenoble INP is France's largest Engineering school with over 5.000 students
 2002 - 2006 **Head of International Relations**, Phelma-Grenoble INP
 2006 - 2008 **Advisor to the President**, Representative for *CLUSTER* network
 2008 - 2011 **Deputy Vice-President** International Relations
- 1999 - 2000** **University of Oxford, Clarendon Laboratory, UK**
Post-doctoral Research Fellow
- 1996 - 1999** **Institut Polytechnique de Grenoble (Grenoble INP), F**
PhD Candidate

Awards

- 2017** **Fellow** of the **European Academy of Sciences**
- 2013** **PEARL “Excellence Award for Research in Luxembourg” (L)**
 Research Funds of 5M€ awarded by the Fonds National de la Recherche (FNR)
- 2011** **Invited Fellow of the Institute of Advanced Studies (IAS)**, Warwick University (UK)
 Award to promote Warwick's international profile as a centre of scholarly excellence
- 2010** **Prime d'Excellence Scientifique** of the CNRS - France
- 2005** **Médaille de Bronze** of the CNRS - France
 Awarded for the best work in Solid State Chemistry by a young scientist in France
- 2001** **Physical Crystallography Award of the Institute of Physics (GB)**
 Awarded for the best published work by a young scientist in Physical Crystallography
- 2000** **Ph.D. Prize of Grenoble INP (F)**
 Awarded for the best Ph.D. thesis in Materials Science
- 1996** **Prix Franco-Allemand of Karlsruhe University (D)**
 Awarded for the best MSc Diploma in Materials Physics

Languages

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| German | Mother Tongue |
| French | Bilingual |
| English | Bilingual |
| Luxembourgish | Understanding: Intermediate, Speaking: Beginner |

Selected Research Management Activities

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| Since 2003 | Editor-in-Chief, International journal "Phase Transitions", published by Taylor & Francis |
| 2006 - 2014 | National Research Council of the French CNRS, Chemistry Department |
| 2013 - 2016 | Project & career advancement committee, Fonds de la Recherche Scientifique, Belgium |
| 2013 - 2018 | Vice-President of the Cluster Materials & Manufacturing of Luxinnovation, Luxembourg |
| Since 2013 | Working Group RDI of the High Committee for Industry of Luxembourg, Luxembourg |
| Since 2013 | Board of Trustees, Leibnitz Institute for New Materials (INM), Saarbrücken, D |

Service to the research community

Referee for journals

Nature publishing group, Advanced Materials, Phys. Rev. Lett, Phys. Rev. B, etc.

Referee for research agencies

ANR (F), FNRS (B), EPSRC (UK), DFG (D), SNF (CH), NSF (USA), H2020/ERC etc.

Organizer/co-organizer of international conferences, workshops, schools and symposia

Selected activities

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|------------------------------|---|
| Founder/Co-organizer | European School of Multiferroic materials (ESMF) |
| Founder/Co-organizer | Warsaw E-MRS Symposium-series since 2010 on Functional oxides |
| Co-organiser | International School on Oxide Electronics (ISOE) |
| International Advisory Board | International Meeting of Ferroelectricity (IMF) |
| International Advisory Board | European Meeting of Ferroelectricity (EMF) |
| International Advisory Board | Materials Science and Engineering Congress (MSEC) |

Research track record

JK's research interest lies in Physics and Materials Sciences, with a particular interest in how different physical properties interact in functional materials and how such functionalities can be translated into technology. His research work has been recognized by several awards, is characterised by a significant external funding and has led to the below track record.

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| Publications | > 130 | PhDs supervisions | 15 | Invited conferences | > 70 |
| H-index | 44 (Google scholar) | Post-Doc supervisions | 6 | External funding | > 8 Mio€ |

Representative Overview & Viewpoint articles

- S. Catalano, M. Gibert, J. Fowlie, J. Íñiguez, J.-M. Triscone, J. Kreisel
Review: Rare-Earth Nickelates RNiO₃: Thin films and heterostructures Rep. Progr. Phys **81**, 46501 (2018) **IF 14.3**
- C. Paillard, X. Bai, I. C. Infante, M. Guennou, M. Alexe, J. Kreisel, B. Dkhil,
Review: Photovoltaic with Ferroelectrics: Current Status and Beyond Advanced Materials **28**, 5153 (2016) **IF 19.8**
- J. Kreisel, L. Wirtz, M. Schiltz
Materials Science in Luxembourg Nature Materials **13**, 219 (2014) **IF 39.8**
- J. Kreisel, M. Alexe, P.A. Thomas
A photoferroelectric material is more than the sum of its parts Nature Materials **11**, 260 (2012) **IF 39.8**

Selected papers of past years

(the full list can be consulted on Google Scholar under Jens Kreisel)

- J. Kreisel, M.C. Weber, N. Dix, F. Sánchez, P.A. Thomas, J. Fontcuberta
Probing layers in oxide multilayers by wavelength-dependent Raman scattering. Adv. Funct. Mat. **22**, 5044 (2012) **IF 12.1**
- D.S. Keeble, E.R. Barney, D.A. Keen, M.G. Tucker, J. Kreisel, and P.A. Thomas
Bifurcated Polarization Rotation in Bismuth-Based Piezoelectrics. Adv. Funct. Mat. **23**, 185 (2013) **IF 12.1**
- M. Guennou, P. Bouvier, P. Toulemonde, C. Darie, C. Goujon, P. Bordet, J. Kreisel
Jahn-Teller, Polarity, Insulator-to-Metal Transition in BiMnO₃ under Pressure. Phys. Rev. Lett. **112**, 075501 (2014) **IF 8.5**
- E. K. H. Salje, M. Alexe, S. Kustov, M. C. Weber, J. Schiemer, G. F. Nataf, J. Kreisel
Direct observation of polar tweed in LaAlO₃. Scientific Reports **6**, 27193 (2016). **IF 4.3**
- M. Lejman, G. Vaudel, I. C. Infante, M. Edely, G. F. Nataf, M. Guennou, J. Kreisel, V. E. Gusev, B. Dkhil, P. Ruello
Ultrafast acousto-optic mode conversion in optically birefringent ferroelectrics. Nature Com. **7**, 12345 (2016). **IF 12.1**
- J. Fowlie, M. Gibert, G. Tieri, A. Gloter, S. Catalano, S. Gariglio, A. Schober, M. Guennou, J. Kreisel, J.-M. Triscone
Conductivity and local structure of LaNiO₃ thin films. Advanced Materials **29**, 1605197 (2017). **IF 19.8**