



**Prof. Jens Kreisel**  
**Rector**

[Jens.Kreisel@uni.lu](mailto:Jens.Kreisel@uni.lu)

### Academic Qualifications

12/2004	Habilitation ( <i>HDR</i> )	Grenoble INP (F)
04/1999	Ph.D. Physics ( <i>Docteur ès Sciences</i> )	Grenoble INP (F)
03/1996	M.Sc. Physics ( <i>Dipl.-Physiker</i> )	Universität Karlsruhe (D), now KIT
08/1995	M.Sc. Materials Science ( <i>DEA</i> )	Grenoble INP (F)

### Current Position (since 01/2023)

**University of Luxembourg**  
**Rector**  
**Full Professor in Physics & Materials Science**

### Past Positions

<b>2018 - 2022</b>	<b>University of Luxembourg</b> <b>Vice-rector for Research</b> <b>Full Professor in Physics &amp; Materials Science</b>
<b>2012 - 2018</b>	<b>Director of Department</b> 2014-2015 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) <b>University of Luxembourg</b> 2017-2018 <b>Adjunct Professor in Physics &amp; Materials Science</b> 2013-2016 <b>Honorary Professor in Materials Science</b>
<b>2011-2012</b>	<b>Warwick University, Department of Physics, UK</b> <b>Sabbatical leave</b> 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)  
 since 2009 **Director of Research** (leave of absence since 2012)  
 2004-2009 **Senior Researcher**  
 2000-2004 **Researcher**
- 2002-2011** **Institut Polytechnique de Grenoble (Grenoble INP), F**  
 2008-2011 **Deputy Vice-President**, International Relations  
 2006-2008 **Advisor to the President**, Representative for *CLUSTER* network  
 2002-2006 **Head of International Relations**, Phelma-Grenoble INP
- 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)  
**2011** **Invited Fellow of the Institute of Advanced Studies (IAS)**, Warwick University (UK)  
**2010** **Prime d’Excellence Scientifique** of the CNRS - France  
**2005** **Médaille de Bronze** of the CNRS - France  
**2001** **Physical Crystallography Award of the Institute of Physics** (GB)  
**2000** **Ph.D. Prize of Grenoble INP** (F)  
**1996** **Prix Franco-Allemand of the Universität Karlsruhe** (D)

## Languages

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

## Selected Services to the academic community

- |            |   |
|------------|---|
| 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       |
| Since 2013 | Board of Trustees, Leibniz Institute for New Materials (INM), Saarbrücken, D              |

### ***Frequent evaluator of Universities and Research Organisations***

***Referee for research agencies*** ANR (F), FNRS (B), DFG (D), SNF (CH), NSF (USA), H2020/ERC etc.

***Referee for academic journals*** Nature publishing group, American Physical Society publishing group etc.

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

## 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 > 140 publications, > 20 PhD/Post-doc supervisions and > 70 conference invitations.

## Representative Overview & Viewpoint articles

G.F. Nataf, M. Guennou, J.M. Gregg, D. Meier, J. Hlinka, E.K.H. Salje, [J. Kreisel](#)  
Review: Domain-wall engineering and topological defects in ferroelectrics and ferroelastics *Nature Rev. Phys.* **2**, 634 (2020)

S. Catalano, M. Gibert, J. Fowlie, J. Íñiguez, J.-M. Triscone, [J. Kreisel](#)  
Review: *Rare-Earth Nickelates RNiO<sub>3</sub>: Thin films and heterostructures* *Rep. Progr. Phys.* **81**, 46501 (2018)

C. Paillard, X. Bai, I. C. Infante, M. Guennou, M. Alexe, [J. Kreisel](#), B. Dkhil  
Review: *Photovoltaic with Ferroelectrics: Current Status and Beyond* *Adv. Materials* **28**, 5153 (2016)

[J. Kreisel](#), L. Wirtz, M. Schiltz  
*Materials Science in Luxembourg* *Nature Materials* **13**, 219 (2014)

[J. Kreisel](#), M. Alexe, P.A. Thomas  
*A photoferroelectric material is more than the sum of its parts* *Nature Materials* **11**, 260 (2012)

## Selected papers of past 8 years

(the full list can be consulted on [Google Scholar](#))

[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)

M. Guennou, P. Bouvier, P. Toulemonde, C. Darie, C. Goujon, P. Bordet, [J. Kreisel](#)  
*Jahn-Teller, Polarity, Insulator-to-Metal Transition in BiMnO<sub>3</sub> under Pressure.* *Phys. Rev. Lett.* **112**, 75501 (2014)

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 LaNiO<sub>3</sub> thin films.* *Adv. Materials* **29**, 1605197 (2017)

S. Nadupalli, [J. Kreisel](#), T. Granzow  
*Increasing bulk photovoltaic current by strain tuning.* *Science Adv.* **5**, eaau9199 (2019)

A. Schober, J. Fowlie, M. Guennou, M.C. Weber, H. Zhao, J. Íñiguez, M. Gibert, J.-M. Triscone, [J. Kreisel](#)  
*Vibrational properties of LaNiO<sub>3</sub> films in the ultrathin regime* *APL Materials* **8**, 061102 (2020)

M.C. Weber, M. Guennou, D.M. Evans, C. Toulouse, A. Simonov, Y. Kholina, (...), [J. Kreisel](#)  
*Emerging spin-phonon coupling through cross-talk of two magnetic sublattices* *Nature Com.* **13** (1), 1-7 (2022)