

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name **Gryaznov, Denis**
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Date of birth **05.03.1977**

WORK EXPERIENCE

- Dates (from – to) **01/2003-present**
- Name and address of employer **Institute for Solid State Physics, Riga, Latvia**
- Occupation or position held **Researcher**
- Main activities and responsibilities ***Ab-initio* calculations on actinide oxides. Continuum calculations on grain boundary diffusion**

- Dates (from – to) **10/2006-present**
- Name and address of employer **European Commission, Joint Research Centre, Karlsruhe, Germany**
- Occupation or position held **Post-Doc**
- Main activities and responsibilities ***Ab-initio* calculations on fission gas release in oxide and nitride nuclear fuels**

- Dates (from – to) **08/2002-09/2006**
- Name and address of employer **Max Planck Institute for Solid State Research, Stuttgart, Germany**
- Occupation or position held **PhD student**
- Main activities and responsibilities **Theoretical type work, i.e. simulation of diffusion in poly- and nano-crystalline materials on continuum level, *ab-initio* calculations of properties of oxide surfaces, simulation of electrochemical Ostwald ripening process for nanocrystalline electrodes**

- Dates (from – to) **1998-2002**
- Name and address of employer **Baltic Scientific Instruments Ltd., Riga, Latvia**
- Occupation or position held **Research Assistant**
- Main activities and responsibilities **Preparation and measurements of electrical properties of semiconductor x- and γ - ray radiation detectors**

EDUCATION AND TRAINING

- Dates (from – to) **10/2002-09/2006**
- Name and type of organisation providing education and training **University of Stuttgart**
- Title of qualification awarded **Doctors Degree**

• Dates (from – to) **09/1999-07/2001**
• Name and type of organisation providing education and training **Transport and Telecommunication Institute**
• Title of qualification awarded **Masters Degree**

• Dates (from – to) **09/1995-07/1999**
• Name and type of organisation providing education and training **Riga Aviation University**
• Title of qualification awarded **Bachelors Degree**

Publications

1. **D. Gryaznov**, A. Loupilov

An X-Ray Detection Unit Based on GaAs Detector

INSTRUMENTS AND EXPERIMENTAL TECHNIQUES 43 (6): 815-817 NOV-DEC 2000

2. **D. Gryaznov**

Noise Components Investigation of Radiation Detector and Field - Effect Transistor System

COMPUTER MODELLING AND NEW TECHNOLOGIES #1, RIGA, LATVIA, 2000, VOL.4

3. **D. Gryaznov**, A. Loupilov

Characteristics of InP Gamma-Detectors

INSTRUMENTS AND EXPERIMENTAL TECHNIQUES 44 (4): 462-465 JUL-AUG 2001

4. Yu.F. Zhukovskii, **D. Gryaznov**, A. Finogenov, Yu.N. Shunin

Ab Initio Simulation of the Cu/MgO (001) Interface

COMPUTER MODELLING AND NEW TECHNOLOGIES#1, RIGA, LATVIA, 2001, VOL. 5

5. V. Gostilo, C. Budtz-Jorgensen, I. Kuvvetli, **D.Gryaznov**, I. Lisjutin, A. Loupilov

The development of drift-strip detectors based on CdZnTe

PROC. OF 12TH INTERNATIONAL WORKSHOP ON ROOM TEMPERATURE SEMICONDUCTOR X- AND GAMMA-RAY DETECTOR, NOVEMBER 3-10, 2001, SAN DIEGO, USA.

6. Gostilo V, **Gryaznov D**, Lisjutin I

Technological limitations and processing-generated defects at the development of pixel and strip arrays

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-

ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT
487 (1-2): 13-18 JUL 11 2002

7. Owens A, Bavdaz M, Gostilo V, **Gryaznov D**, Loupilov A, Peacock A, Sipila H

The X-ray response of InP

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-
ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT
487 (3): 435-440 JUL 21 2002

8. A.Owens, A. Peacock, M. Bavdaz, G. Brammertz, F. Dubecky, V. Gostilo,
D.Gryaznov, N. Haak, M. Krumrey, A. Loupilov

The X-Ray response of InP: Part B, synchrotron radiation measurements

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-
ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT
491 (3): 444-451 OCT 1 2002

9. Gostilo V, Budtz-Jorgensen C, Kuvvetli I, **Gryaznov D**, Lisjutin I, Loupilov A

The development of drift-strip detectors based on CdZnTe

IEEE TRANSACTIONS ON NUCLEAR SCIENCE 49 (5): 2530-2534 Part 2, OCT 2002

10. **D. Gryaznov**, J. Fleig, J. Maier

Numerical Study of Grain Boundary Diffusion in Nanocrystalline Materials

DEFECT AND DIFFUSION FORUM VOLS. 237-240 (2005) PP. 1043-1048

11. R. A. Evarestov, E. A. Kotomin, Yu. A. Mastrikov, **D. Gryaznov**, E. Heifets and J. Maier

Comparative DFT LCAO and plane wave calculations of LaMnO₃ surfaces

PHYSICAL REVIEW B, VOL. 172, PP. 214411

12. D. Fuks, L. Bakaleinikov, E. A. Kotomin, J. Felsteiner, A. Gordon, R. A. Evarestov, **D. Gryaznov**, J. Maier

Thermodynamic stability and disordering in La_cSr_{1-c}MnO₃ solid solutions

SOLID STATE IONICS, VOL. 177 (2006), PP. 217 - 222

13. **D. Gryaznov**, J. Fleig, J. Maier

Numerical Study of Grain Boundary Diffusion in Nanocrystalline Ionic Materials Including Blocking Space Charges

SOLID STATE IONICS, PROCEEDINGS OF SSI-15, Vol. 177 (2006), pp. 1583-1586

14. **D. Gryaznov**, J. Fleig, J. Maier

Numerical Study of Grain Boundary Diffusion: Size Effects

DIFFUSION FUNDAMENTALS, PROCEEDINGS OF DIFFUSION FUNDAMENTALS I, VOL. 2 (2005), PP. 49

15. A. Shroeder, J. Fleig, **D. Gryaznov**, J. Maier, W. Sitte

Quantitative Model of Electrochemical Ostwald Ripening and Its Application to the Time-Dependent Electrode Potential of Nanocrystalline Metals

PHYS. CHEM. B, VOL. 110 (2006), pp. 12274-12280