PERSONAL INFORMATION



Andris Anspoks

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Sex Male | Date of birth 29/11/1964 | Nationality Latvian

JOB APPLIED FOR: Not applicable — position already approved.
POSITION: Member of the F4E Governing Board.
PREFERRED JOB: Not applicable — CV for the approved position.
STUDIES APPLIED FOR: Not applicable.
PERSONAL STATEMENT: Research leader and physicist with experience in institutional strategy, innovation, technology transfer and management across the public and private sectors.

WORK EXPERIENCE

2021–present — Director

Institute of Solid State Physics, University of Latvia; https://www.cfi.lu.lv/en/

Managing the institute and strategic projects; aligning research, industry, innovation and administrative support through organisational optimisation.

Business or sector Research institute

2019–2023 — Advisor to the Prime Minister for science and innovation

Republic of Latvia

- Advised the Prime Minister on research and innovation.

Business or sector Public administration

2017–2021 — Deputy Director for Innovation

Institute of Solid State Physics, University of Latvia

- Developed the institute's innovation system, technology transfer activities, industry partnerships and open access laboratory.

Business or sector Research institute

2014–present — Leading Researcher

Institute of Solid State Physics, University of Latvia

X-ray absorption spectroscopy and EXAFS research; research also includes microfluidic devices and biosensors.

Business or sector Research institute

2009–2014 — Researcher

Institute of Solid State Physics, University of Latvia

X-ray absorption spectroscopy experiments and data analysis.

Business or sector Research institute

2005–2008 — Advisor to the minister

Secretariat of the Special Assignments Minister for Electronic Government Affairs

- Maintained liaison with the Latvian Information Technology and Communications Association (LIKTA).

Business or sector Public administration

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2004–2010 **IT Director**

RP SIA Rīgas satiksme

- Managed the consolidation of three enterprise systems into one following a company merger, the rollout of a new ERP system and integration with the electronic ticketing system.

Business or sector Public transport and parking

2001–2005 **CEO**

RIX Technologies Ltd.

- Set up and led a software development company from inception. Major projects included websites for IF Insurance, airBaltic and the Riga Stock Exchange.

Business or sector Software development

1999–2007 **Vice-President**

Latvian Information Technology and Communications Association (LIKTA)

- Co-managed the association and contributed to its strategy.

Business or sector Information and communications technology industry association

1997–2001 **Deputy Director General**

State Revenue Service, Latvia

- Integrated tax and customs IT systems and established a network connecting all border units and tax offices. Created a unified taxpayer register and integrated IT systems with EU systems, national enterprise and population registers, and the social insurance system.

Business or sector Public administration (tax and customs)

1994–1997 **Country Representative**

Hewlett-Packard

- Sold complex IT systems, including UNIX servers.

Business or sector Information technology

1991–1994 **Co-founder and President**

Capital Ltd.

- Co-founded the company with a 50% ownership stake; later exited the business. Activities included computer assembly, network development and complex IT systems.

Business or sector Computer assembly and IT systems

1990–1991 **Register Development Project Manager**

JSC Dardedze

- Managed the development of the first information system for the Register of Enterprises of the Republic of Latvia.

Business or sector Multisectoral company

1983–1991 **Engineer, Assistant, Researcher**

Institute of Solid State Physics

- Research in nonlinear optics and electro-optics; computer-based experiment automation and quantum chemistry calculations.

Business or sector Research institute

EDUCATION AND TRAINING

2010–2014 **PhD in Physics** EQF level 8

University of Latvia

- Doctoral thesis: Studies of local structure relaxation in nanomaterials.

PERSONAL SKILLS

Mother tongue(s) Latvian

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Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
Russian	C1	C1	C1	C1	B1
Self-assessed; no certificate				
English	C2	C2	C2	C2	C2
Self-assessed; no certificate				

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages

Communication skills

Industry partnerships and collaboration with scientists, entrepreneurs, investors and policymakers; coordination across research institutions through state research programs, ecosystem activities and international cooperation projects.

Organisational / managerial skills

Management of complex projects and teams in private and public organisations, including my own companies. Institutional strategy, organisational optimisation, innovation systems, open access laboratories and technology transfer.

Job-related skills

X-ray absorption spectroscopy experiments and data analysis. Experiments at DESY PETRA III, ELETTRA, SOLEIL, ALBA, ESRF and SPring-8. Research also includes microfluidic devices and biosensors.

Attended professional development courses in management, time management, handling difficult conversations and sales.

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Independent user	Proficient user

Levels: Basic user - Independent user - Proficient user
Digital competences - Self-assessment grid

No formal ICT certificates

Extensive experience with IT systems and digital tools, developed through professional work since the 1980s, including senior management roles in the public and private sectors.

- Proficient in Microsoft Office applications, including Word, Excel and PowerPoint.
- MacOS user
- Experienced in using AI tools for data analysis and document processing.
- Good command of photo editing software, developed through amateur photography.

Other skills

Entrepreneurship and business development; management of organisational and technological change; coordination across research, industry and public administration.

Driving licence

B

ADDITIONAL INFORMATION

Researcher identifiers

ORCID: 0000-0002-7174-175X
ResearcherID: E-8602-2010 | Scopus Author ID: 36544870800
ResearchGate: https://www.researchgate.net/profile/Andris_Anspoks

Projects

Smart materials, Photonics, Technologies and Engineering Ecosystem [MOTE] (2022–2024)
Funding: State research program Innovation Fund (VPP-EM-FOTONIKA-2022/1-0001); project funding: €5,700,000.
Role: Coordinator and project manager.

Centre of Advanced Materials Research and Technology Transfer CAMART² (2017–March 2025)
Funding: H2020 WIDESPREAD-01-2016-2017 Project ID: 739508; project funding: €14,999,955.
Role: Work package leader: innovation, open access laboratory and organisational change.

EUROfusion Work package Advanced Steels (2014–2020)
Funding: EUROfusion (Grant Agreement Nr. 633053); project funding: more than €1,000,000.
Role: Project manager, Researcher (x-ray absorption experiments and data analysis).

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Promising nanomaterials for energy efficient solutions (2009–2012)
Funding: ESF (European Social Fund) 009/0202/1DP/1.1.1.2.0/09/APIA/VIAA/141; project funding: €1,405,605.
Role: Project Administrator, Researcher (x-ray absorption experiments and data analysis).

Scientific initiatives

Co-creator of the Latvian Quantum Initiative, funded and coordinated by the University of Latvia since 2022. The Institute of Solid State Physics contributes its Nanotechnology Centre and expertise in quantum photonics. Personal research initiatives mainly are in X-ray absorption spectroscopy.

Supervision

Since 2009, supervised the completion of two bachelor's theses, one master's thesis and one PhD dissertation. There is not much I can do for students in a position of director of the institute.

Publications

Total number of publications: 58; h-index: 17

Selected publications

R. Ruska, E. Zutis, K. Tars, A. Kazaks, G. Paidere, J. Cipa, I. Vozny, T. Freimanis, M. Elksne, A. Sarakovskis, R. Zalubovskis, A. Anspoks. Enhanced protein binding to off-stoichiometry thiol–ene microfluidic devices: a novel linker approach, Analytical Methods, 2026, 18(1), pp. 90–97

K. Kamijo, N. Nakajima, D. Fan, A. Anspoks. Two-metal-edge extended X-ray absorption fine structure analysis of oxygen octahedral rotation in SrTiO3 using the reverse Monte Carlo method, Journal of Synchrotron Radiation, 2025, 32(Pt 4), 1010–1016

E. Zutis, G. Paidere, R. Ruska, Freimanis, J. Cipa, R. Zalubovskis, M. Elksne, K. Tars, A. Kazaks, J. Leitans, A. Sarakovskis, A. Anspoks, Surface Functionalization of ITO for Dual-Mode Hypoxia-Associated Cancer Biomarker Detection, Biosensors, 2025, 15(3), 186

E. Zutis, G. Paidere, I. Vozny, J. Cipa, J. Gabrusenoks, T. Freimanis, R. Zalubovskis, A. Anspoks, Off-Stoichiometry Thiol-Ene Surface Functionalization: Example with Gold Nanoparticles, Materials, 2024, 17(24), 6135

I. Weisbord, M. Barzilay, R. Cai, E. Welter, A. Kuzmin, A. Anspoks, T. Segal-Peretz, The Development and Atomic Structure of Zinc Oxide Crystals Grown within Polymers from Vapor Phase Precursors, ACS Nano, 2024, 18(28), pp. 18393–18404

R. Levinas, V. Pakstas, A. Selskis, T. Murauskas, R. Viter, A. Anspoks, I. Pudza, A. Kuzmin, L. Tamasauskaite-Tamasiunaite, H. Cesiulis, Plasma Electrolytic Oxidation Synthesis of Heterostructured TiO2/CuxO Films for Photoelectrochemical Water Splitting Applications, Journal of the Electrochemical Society, 2024, 171(3), 036501

I. Pudza, D. Bocharov, A. Anspoks, M. Krack, A. Kalinko, E. Welter, A. Kuzmin, Unraveling the interlayer and intralayer coupling in two-dimensional layered MoS2 by X-ray absorption spectroscopy and ab initio molecular dynamics simulations, Materials Today Communications, 35 (2023) 106359.

I. Pudza, A. Anspoks, G. Aquilanti, A. Kuzmin, Revealing the local structure of CuMo1-xWxO4 solid solutions by multi-edge X-ray absorption spectroscopy, Materials Research Bulletin, 153 (2022) 111910.

S. Kato, N. Nakajima, S. Yasui, S. Yasuhara, D. Fu, J. Adachi, H. Nitani, Y. Takeichi, A. Anspoks, Dielectric response of BaTiO3 electronic states under AC fields via microsecond time-resolved X-ray absorption spectroscopy, Acta Mater. 207 (2021) 116681.

A. Chesnokov, D. Gryaznov, N. V. Skorodumova, E. A. Kotomin, A. Zitolo, M. Zubkins, A. Kuzmin, A. Anspoks, J. Purans, The local atomic structure and thermoelectric properties of Ir-doped ZnO: hybrid DFT calculations and XAS experiments, J. Mater. Chem. C (2021).

A. Kuzmin, J. Timoshenko, A. Kalinko, I. Jonane, A. Anspoks, Treatment of disorder effects in X-ray absorption spectra beyond the conventional approach, Rad. Phys. Chem. 175 (2020) 108112.

A. Anspoks, C. Marini, T. Miyanaga, B. Joseph, A. Kuzmin, J. Purans, J. Timoshenko, A. Bussmann-Holder, Local structure of A-atom in ABO3 perovskites studies by RMC-EXAFS, Rad. Phys. Chem. 175 (2020) 108072.

I. Jonane, A. Anspoks, G. Aquilanti, A. Kuzmin, High-temperature X-ray absorption spectroscopy study of thermochromic copper molybdate, Acta Mater. 179 (2019) 26-35.

T. Schenk, A. Anspoks, I. Jonane, R. Ignatans, B.S. Johnson, J.L. Jones, M. Tallarida, C. Marini, L. Simonelli, P. Hönicke, C. Richter, T. Mikolajick, U. Schroeder, Local structural investigation of hafnia-zirconia polymorphs in powders and thin films by X-ray absorption spectroscopy, Acta Mater. 180 (2019) 158-169.

J. Timoshenko, A. Anspoks, A. Cintins, J. Purans, A.I. Frenkel, Neural Network Approach for Characterizing Structural Transformations by X-Ray Absorption Fine Structure Spectroscopy, Physical Review Letters, 2018, 120(22), 225502.

A. Anspoks, A. Kalinko, R. Kalendarev, A. Kuzmin, Atomic structure relaxation in nanocrystalline NiO studied by EXAFS spectroscopy: Role of nickel vacancies, Physical Review B, 2012, 86(17), 174114.

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Courses	Attended professional development courses in management, time management, handling difficult conversations and sales.
Presentations	Presentations at conferences and professional events on national research and innovation programmes, projects, new insights and scientific results, including progress reports on institute and company activities.
Conferences	Organised the Functional Materials and Nanotechnologies conference and the annual conference for a national innovation development programme. Delivered presentations at an E-MRS conference and specialised conferences and workshops in X-ray absorption spectroscopy.
Seminars	Delivered internal seminars and seminars on project development, science strategy and institute strategy.
Honours and awards	Research-team recognition by the Latvian Academy of Sciences among the most significant scientific achievements of 2021, for explaining how local atomic structure affects the thermochromic and magnetic properties of molybdates and tungstates. Certificate of Recognition from the President of the Latvian Academy of Sciences for a 2016 research-team achievement on the high-pressure insulator-to-metal transition in tin tungstate. Certificates of appreciation from the Prime Minister and the Ministry of Economics.
Memberships	Full member of the Latvian Academy of Sciences (since 2026).
References	Available on request.
Citations	902 citations from 654 citing documents; h-index: 17.
Certifications	None.

ANNEXES

None.

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