

FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE
DOCTORAL PROGRAMME IN PHYSICS AND MATERIALS SCIENCE

Professors, Associated Professors, Assistants-Professors, Affiliated Professors

Researchers with supervision rights

16-Dec-24

Supervisor		Entity	Discipline	Field of Research
Frederic ADDIEGO	FREDERIC.ADDIEGO@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Polymer and composite mechanics Polymer and composite structural analysis Composite interface science and engineering in-situ material analysis (SAXS/WAXS/tomography/SEM) Polymer and composite processing
Jean-Nicolas AUDINOT	JEAN-NICOLAS.AUDINOT@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Material Science, Microscopy, Correlative Microscopy, SIMS, Analytic
Jörg BALLER	JOERG.BALLER@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Sciences Exactes et Naturelles	Applied Physics. Flow behaviour, mechanical and thermal properties of complex materials. Rheology, Calorimetry, Light scattering.
Emanuele BARBORINI	EMANUELE.BARBORINI@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Atomic clusters and nanostructured materials, experimental. Devices based on nanostructured
Salim BELOUETTAR	SALIM.BELOUETTAR@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Composites Materials Processing Engineering Materials Engineering Automotive Engineering
Josh BERRYMAN	JOSH.BERRYMAN@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Sciences Exactes et Naturelles	Molecular biophysics, molecular dynamics simulation, amyloid formation, amyloid-related
Nicolas BOSCHER	NICOLAS.BOSCHER@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Chemical Engineering; Materials Engineering; Thin Films; Chemical Vapour Deposition; Polymer Science; Surface Modification
Daniele BRIDA	DANIELE.BRIDA@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Sciences Exactes et Naturelles	Experimental Condensed Matter Physics Ultrafast processes in condensed matter by means of advanced optical technology
Aurélia CHENU	AURELIA.CHENU@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY	Sciences Exactes et Naturelles	Quantum dynamics, quantum chaos, quantum
Phillip DALE	PHILLIP.DALE@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Sciences Exactes et Naturelles	Physical chemistry or chemical physics, solar cells, inkjet printing, electrochemistry, thin film deposition and characterisation, alternative lithography processes.
Emmanuel DEFAY	EMMANUEL.DEFAY@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Ferroelectric materials; piezoelectricity; caloric materials
Adolfo DEL CAMPO ECHEVARRIA	ADOLFO.DELCAMPO@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY	Sciences Exactes et Naturelles	Theoretical condensed matter physics
Massimiliano ESPOSITO	MASSIMILIANO.ESPOSITO@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY	Sciences Exactes et Naturelles	Statistical Physics, Complex Systems,
Santhana ESWARA MOORTHY	SANTHANA.ESWARA@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Materials Science, Electron Microscopy, Secondary Ion Mass Spectrometry
Etienne FODOR	ETIENNE.FODOR@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY	Sciences Exactes et Naturelles	Physics of Active Matter
Carlos FUENTES	CARLOS.FUENTES@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Material Characterization Mechanical Properties Materials Engineering Natural Fiber Composites
Alexandros GERAKIS	ALEXANDROS.GERAKIS@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Plasma physics; experimental physics
Sebastjan GLINSEK	SEBASTJAN.GLINSEK@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Ferroelectrics; Piezoelectrics; Processing of thin films; Inkjet and aerosol jet printing; Piezoelectric
Joamin GONZALEZ-GUTIERREZ	JOAMIN.GONZALEZ@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Polymer and composites
Torsten GRANZOW	TORSTEN.GRANZOW@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Polar oxide materials; Ferroelectrics; Piezoelectrics; Non-linear optics; Dielectric
Mael GUENNOU	MAEL.GUENNOU@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY	Sciences Exactes et Naturelles	Experimental solid state physics, ferroic phase
Jorge INIGUEZ	JORGE.INIGUEZ@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Condensed matter physics, materials science, computational physics
Florian KAISER	FLORIAN.KAISER@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Quantum physics Spintronics Nanophotonics
Sivashankar KRISHNAMOORTHY	SIVASHANKAR.KRISHNAMOORTHY@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Thin Films and Nanotechnology Nanobiotechnology Nanofabrication Nanoparticles Plasmonics
Abdelghani LAACHACHI	ABDELGHANI.LAACHACHI@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Polymer-based nanocomposites; formulation, processing, characterisation of polymers
Jan LAGERWALL	JAN.LAGERWALL@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY	Sciences Exactes et Naturelles	Soft matter physics; liquid crystals; polymers;
Renaud LETURCQ	RENAUD.LETURCQ@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Solid state physics; electronics; optics
Petru LUNCA POPA	PETRU.LUNCAPOPA@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Transparent and conductive thin films. Fabrication and characterization.
Ahmed MAKRAZI	AHMED.MAKRAZI@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Polymer Composites Liquid Metals and Alloys Carbon Nanotubes Polymers Micromechanics
Massimo MALVETTI	MASSIMO.MALVETTI@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY	Sciences Exactes et Naturelles	?
Marc MICHEL	MARC.MICHEL@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Fuel Cells Electrocatalysis Materials Cyclic Voltammetry Nanomaterials
Andreas MICHELS	ANDREAS.MICHELS@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Sciences Exactes et Naturelles	Condensed Matter Physics, Magnetism and Magnetic Materials, Materials Science, Micromagnetic Simulations, Nd-Fe-B Permanent Magnets, Neutron Scattering, Neutron and x-ray
Cesar PASCUAL GARCÍA	CESAR.PASCUAL@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Raman Spectroscopy Raman Scattering Low Temperature Superconductivity and
Patrick PHILIPP	PATRICK.PHILIPP@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	SIMS Silicon Carbon Surface Analysis Surface Science
Jerome POLESEL	JEROME.POLESEL@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	microfabrication, ALD thin film processing, sensors, MEMS, energy harvesters, autonomous IoT,
Igor POLTAVSKYI	IGOR.POLTAVSKYI@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Sciences Exactes et Naturelles	Condensed matter physics; Theoretical physics; computational physics
Roberto QUINTANA VICENTE	ROBERTO.QUINTANA@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Polymer chemistry; Nanotechnology; Surface Chemistry, Plastics; Polymer Science; Polymer
Alex REDINGER	ALEX.REDINGER@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Sciences Exactes et Naturelles	Thin film solar cells such as Cu(In,Ga)Se ₂ , kesterites and hybrid perovskites, Scanning Probe microscopy methods (STM, STS, KPFM)
David RUCH	DAVID.RUCH@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Composite Material Material Characterization Advanced Materials PolymersFilms
Matthias RUPP	MATTHIAS.RUPP@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Machine learning for molecules and materials, atomistic machine learning, machine-learning inter-atomic potentials, Bayesian optimization for

Giusy SCALIA	GIUSY.SCALIA@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Sciences Exactes et Naturelles	Liquid Crystals Carbon Nanotubes Graphene Raman Spectroscopy Materials
Thomas SCHMIDT	THOMAS.SCHMIDT@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Sciences Exactes et Naturelles	Topological quantum systems Mesoscopic physics Quantum transport
Daniel SCHMIDT	DANIEL.SCHMIDT@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Polymeric materials, composites, nanocomposites, thermosets, polymer networks, vitrimers, materials chemistry, materials characterization, sustainable materials, porous materials, sol-gel chemistry,
Anupam SENGUPTA	ANUPAM.SENGUPTA@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Sciences Exactes et Naturelles	Colloids; Liquid Crystals; Optofluidics; Microfluidics; Transmission Microscopy; Soft Lithography; Polarization Microscopy; Complex Fluids; Liquids; marine microbes; Phytoplankton; Gravitaxis; bacterial motility; Viscoelastic Substances; Active Transport; Morphogenesis; Soft
Alexander SHAPLOV	ALEXANDER.SHAPLOV@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Polymer synthesis, polymerization, polycondensation, polyaddition, ionic liquids, polyelectrolytes, polymer electrolytes, Li batteries,
Susanne SIEBENTRITT	SUSANNE.SIEBENTRITT@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY	Sciences Exactes et Naturelles	Physics, Solar Cells, Semiconductors
Alexandre TKATCHENKO	ALEXANDRE.TKATCHENKO@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Sciences Exactes et Naturelles	Condensed Matter Physics, Chemical Physics, Collective Phenomena
Pierre VERGE	PIERRE.VERGE@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Bio-based polymers, Sustainability, Vitrimers
Stephan WESTERMANN	STEPHAN.WESTERMANN@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Polymer science, Polymer physics, Polymer composites, Elastomers and rubbers, Contact mechanics, Structure-Property Relationships of polymeric materials, Characterization and testing
Robin WHITE	ROBIN.WHITE@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Energy, Materials, Hydrogen, CO2 Conversion, PtX, CCU
Tom WIRTZ	LUDGER.WIRTZ@UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Sciences Exactes et Naturelles	Nano-analytics, charged particle optics, ion microscopy, electron microscopy, ion-matter interactions, secondary ion mass spectrometry
Ludger WIRTZ	TOM.WIRTZ@EXT.UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Sciences Exactes et Naturelles	Materials Science, Theoretical and Computational Solid-State Physics, 2D Materials, Theoretical Spectroscopy, Exciton-Phonon coupling