









THE INSTITUTE OF LIGHT AND MATTER IS...

- A high level research in physics and chemistry
- A continuum from fundamental research to innovation
 - Light for probing and shaping matter
- The tools and know-how to develop materials and to study their optical, electronic, mechanical, acoustic, thermal, and rheological properties
 - Projects at the interface with engineering, biology, health and environment
- A scientific and technological potential uniting 280 collaborators, involved in 6 lines of research

MATERIALS. ENERGY. PHOTONICS:

Developing a fundamental and applied research in the design, the elaboration and the characterization of functional materials that possess innovating optical, magnetic, thermal, and acoustic properties.

SOFT MATTER:

Developing a multi-scale approach, combining experiments and theory, to innovate in understanding the processes of organization and transport in complex systems: interfacial, divided, out of equilibrium, living matter...

NANOSCIENCES:

Developing new technologies to understand, design and characterize the elementary bricks at the origin of the nanomaterials of tomorrow's technological revolution.

OPTICS AND ULTRAFAST DYNAMICS:

Measuring by spectroscopy the structure and the dynamics of the elementary bricks of matter, from molecules to nano-objects. Developing innovative methods, from very high temporal resolution to high spectral resolution.

THEORY AND MODELLING:

Offering a unique spectrum of skills and theoretical tools to model matter from molecules to bulk: theory of the electronic structure, atomistic simulation, statistical physics, continuous medium models and multiscale methods

LIVING MATTER, HEALTH AND ENVIRONMENT:

Answering societal challenges: Health, Climate, Environment. Fundamental research in physics and chemistry leads to innovations for medical or environmental applications.







A NETWORK OF INDUSTRIAL AND ACADEMIC PARTNERS

- Startups, SMEs, and large business groups
- Research organisations and institutes
- International collaborations in 5 continents: Australia, Brazil, Canada, China, Croatia, Germany, Great Britain, Greece, India, Italy, Japan, Mexico, Poland, Russia, Switzerland, Taiwan, United States, Ukraine...
- Start-up development (Ablatom, Axint, Fibercryst, Glincs, Icohup, Mexbrain, NanoH, NhTherAguix...)
- Founding member of the Cristal Innov platform







- Member of the business poles and clusters Axelera, Minalogic, Lyon Biopole, Tenerrdis, Techtera, of the CLARA Canceropole, and of Light Cluster
- Member of the Laboratories of Excellence (Labex) iMust and Primes
- Regional Collaborations: Universities of Grenoble and Saint-Etienne, INSA, ENS, École Centrale...
- Conférences for the "Université ouverte", scientific workshops (Science Fair, Museums, School, Open University)
- Events organized with local authorities



RESPONDING TO SOCIETAL CHALLENGES

Health, energy, transportation, environment, photonics

THE ILM IN FIGURES

- A research budget of 6 M€ (20 M€ consolidated)
- 250 publications
- 6 patents
- 4 International Associated Labs
- 41 French Research Agency, 8 European contracts, 1 ERC, 2 FUI, local fundings
- 21 industrial contracts
- 8 PhD funded by industry,2 maturation projects
- A surface of 9000 m²

Data: year 2018



Institute of Light and Matter

iLM UMR5306 CNRS Université Claude Bernard Lyon 1 Campus LyonTech la Doua Bâtiment Kastler, 10 rue Ada Byron 69622 Villeurbanne Cedex

France

http://

CONTACTS

Director:

Philippe Dugourd dir.ilm@univ-lyon1.fr Tel: +33 (0)4 724 484 54

Anne-Marie Jurdyc (human ressources) anne-marie.jurdyc@univ-lyon1.fr Tel: +33 (0)4 724 482 60

Brigitte Prével

brigitte.prevel@univ-lyon1.fr Tel: +33 (0)4 724 481 89

Loïc Vanel

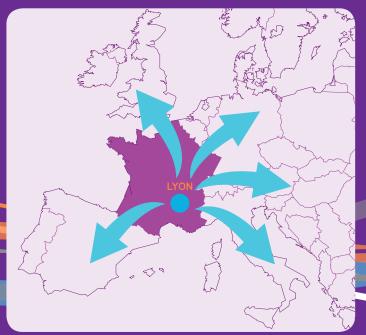
loic.vanel@univ-lyon1.fr Tel : +33 (0)4 724 310 21

Administration and financial services:

Dominique Farjot

dominique.farjot@univ-lyon1.fr Tel : +33 (0)4 724 312 44

A LABORATORY IN THE HEART OF EUROPE



Campus LyonTech - La Doua, Villeurbanne

