



## **PROF. REDOUANE BORSALI, PHD**

GRENOBLE ALPES UNIVERSITY

CNRS RESEARCH DIRECTOR (EXCEPTIONAL CLASS), DRCE

**MEMBER OF THE EUROPEAN ACADEMY OF SCIENCES (EurASc)**

- DIRECTOR OF POLYNAT CARNOT INSTITUTE, GRENOBLE, FRANCE
- CO-DIRECTOR OF IRP-CNRS-NTU “GREEN MATERIAL INSTITUTE”  
TAIPEI, TAIWAN
- SELF-ASSEMBLY OF GLYCOPOLYMER GROUP LEADER – CERMAV, GRENOBLE,  
FRANCE

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### **ACTUAL POSITIONS :**

- Director of PolyNat Carnot Institute (since 2011 – )  
gathering 6 Laboratories and 2 Technical Centers – Grenoble (about 450 Persons)  
“High-added Value for, innovative, functional, biosourced and flexible Materials”  
<http://www.polynat.eu/en>
- Group Leader (since 2010 –) (15-20 persons) “Self-Assembly of Block copolymer systems:  
Nanoparticles and Thin Films” (CNRS) <http://www.cermav.cnrs.fr/en/physico-chemistry-of-glycopolymers>
- Co-Director of Green Material Institute, NTU, Taipei, Taiwan since 2021–  
<https://irp-gmi.cnrs.fr>

### **FORMER POSITIONS :**

- Executive Director for International Relations Grenoble Alpes Univ. (from 2016-2019)
- Director of CERMAV (2007-2015) –(150 persons) A CNRS Laboratory of Glycosciences, UGA, Grenoble, France
- Group Leader (7 years , 2000-2006) – (15-20 persons), (LCPO), Bordeaux University, France
- Visiting Professor (2 years), Chem. Department, Stanford University, CA, USA
- Visiting Scientist (1 year) IBM, Almaden, San Jose, CA, USA
- Post-doc (2 years, 1989-1990) Max-Planck-Institute for Polymer Research, Mainz, Germany –

### **EARNED DEGREES**

- Priv. Doz./ Habilitation to lead Research, Joseph Fourier University, Grenoble, France (1992)
- PhD in Polymer Sciences, Louis Pasteur University, Strasbourg, France (1988)
- MASTER in Polymer Sciences, Louis Pasteur University, Strasbourg, France (1985)

### **PUBLICATIONS, CONFERENCES & SUPERVISOR**

- More than 300 Publications ; H-index= 45, Citations : 7000, Average Citation : 26
- 5 patents
- >120 invited international conferences
- Chair/co-Chair of 24 International Conferences on « Polymers & Colloids »
- Supervisor of 27 Post-docs, Supervisor or Co-supervisor of 43 PhD students, Supervisor of 24 Masters

### **MEMBER OF THE ACADEMY OF SCIENCE**

- MEMBER OF THE EUROPEAN ACADEMY OF SCIENCES (EurASc) since April 2022  
<https://www.eurasc.org/user/880/redouane-borsali>

#### EDITORIAL BOARD MEMBER :

- Nanomaterial, Open Access Journal – MDPI;
- Chemosensor, Open Access Journal – MDPI;
- Materials Research: Iberico-American Material Journal,...

#### 4 BOOKS + 1 IN PREPARATION:

- 1-**R. Borsali** and R. Pecora (Editors) "Structure and Dynamics of Polymers and Colloids", NATO ASI Series, Kluwer Publisher Vol 568, 2002., 477 Pages ISBN: 9781402005022
- 2-**R. Borsali** and V. Soldi (Editors) "Advanced Polymeric Materials" Macromol. Sympos. FBPOL Wiley-VCH Vol 229, 2005, 280 Pages ISBN: 978-3-527-31332-7
- 3-**R. Borsali** and R. Pecora (Editors) "Soft Matter: Scattering, Imaging & Manipulation" 4 Volumes Springer Publisher (2008), 1400 pages ISBN: 978-1-4020-4464-9
- 4-V. Soldi and **R. Borsali** (Editors) Proceedings of the 2nd "French-Brazilian-Polymer" FBPOL2008 Conference published in "Materials Science and Engineering: C Supramolecular Science Volume 29, Issue 2, Pages 357-662 (2009)
- 5- **R. Borsali** & R. Pecora, Dynamics in Liquids and Soft Matter: From Angstroms to the Nanoscale, in preparation 2023 -(Wiley)



#### EXPERTISE: SOFT-MATTER AND MATERIAL SCIENCES : POLYMER AND COLLOID SCIENCE

Self-assemblies of Carbohydrate-based block copolymers (BCP) systems, including

- Thin films and their properties/applications in nano-electronics including:
  - Nanostructured materials, smart surfaces, nanolithography, photovoltaic, memory device,...
  - Directed Self-Assembly (DSA)
- Nanoparticles (micelles) & Polymersomes and their properties/applications in cosmetic & biomedical
- Photonic crystals – (colored Biomaterials)

#### INTERNATIONAL ACADEMIC COLLABORATIONS

- **Europe**: several European Universities
- **Japan** : Hokkaido University, Kanazawa University, Yamagata University, Tokyo Tech and Kyoto University
- **Taiwan**: National Taiwan University, and NTUT
- **Brazil** : Santa Catarina University (Florianopolis), Universities of Natal, Maringa & Porto Alegre
- **USA**: Stanford University, Chicago University and Univ Texas, USA
- **China** : Fudan University and Shanghai University

#### INDUSTRIAL COLLABORATIONS

- **Solvay** – Belgium on Materials
- **Japan** – Toshiba, Tokyo Electron (Microelectronics) and Hitachi High-Tech Corporation High nanostructured (Sub\_10nm) thin films for Nanolithography
- **Taiwan** – ITRI and Nanpao on Biomaterials
- **Kering** – France- on Biomaterials

## HONORS AND AWARDS

1. Member of the European Academy of Sciences (EurASc) since April 2022
2. SPSJ international award (Society Polymer Sciences, Japan) – 2020
3. Scientific Grand Prize France Taiwan–Awards Academy of Science, Paris, France, 2018
4. Awards: “Star of Europe” : in Research and Innovation given by The Ministry of Education and Research for the European “Greenanofilms” Project– Paris- 4th December 2017  
<https://news.cnrs.fr/articles/european-research-in-focus>



Academy of Sciences- Paris International Scientific Grand Prize France-Taiwan 2018



SPSJ international award (Society Polymer Sciences, Japan) – 2020