

**Dr. Renaud DEMADRILLE** (45 years old, French)

CEA-Grenoble, Interdisciplinary Research Institute of Grenoble (IRIG)  
SyMMES (UMR5819), 17 rue des Martyrs 38054 Grenoble-FR  
Phone 1: +33 (0) 438783887 Phone 2: +33 (0) 663686681  
<https://www.demadrillegroup.com/>  
<https://orcid.org/0000-0002-7455-5709>  
Scopus Author ID: 6602428772 and Researcher ID: J-6088-2018

**RESEARCH TOPICS**

Organic materials for optoelectronics, Organic semiconductors, Photovoltaics, Photochromism, Molecules and Polymers for energy conversion and storage (solar cells, thermoelectricity...), Bulk-heterojunction and Dye-sensitized solar cells.

**AWARDS and GRANTS**

**2019:** ERC Advanced Grant. Project PISCO: “Photochromic Solar Cells: Towards Photovoltaic Devices with Variable and Self-Adaptable Optical Transmission”

**2018:** Chemistry and Energy Prize, award from the “Société Chimique de France”

**ACADEMIC TRAINING**

**2016:** Habilitation à Diriger les Recherches (HDR), Univ. Grenoble-Alpes (UGA), France

**1997-2000:** Ph.D in Chemistry, University of Aix Marseille II, Luminy, France.

*Subject:* “Photodegradation mechanisms and stabilisation processes of photochromic materials in polymer matrices for optical lenses applications”. *Mentors:* Profs R. Guglielmetti, G. Giusti, M. Campredon

**POSITIONS and PROFESSIONAL EXPERIENCES**

**Since 2021:** Head of the STEP (Synthesis, Structure and Properties of Functional Materials) Laboratory in the Department of the Interfaces for Energy, Health and Environment at CEA-IRIG.

**Since 2020:** Associate Editor “*Journal of Materials Chemistry C*” and “*Materials Advances*” (RSC)

**Since 2016:** Senior Expert Research Engineer, project leader in the field of organic and hybrid materials for photovoltaics and organic electronics

**2009-2011:** Research Engineer, Policy Officer in charge of the development of organic and hybrid photovoltaics activities at CEA-INAC

**Since 2005:** Research Engineer, project leader in the field of materials for organic electronics.

**2004-2005:** Post-doctoral fellow at XLIM Institute of the University of Limoges, France, *Mentor:* Prof. André Moliton.

**2002-2004:** Post-doctoral fellow at CEA-DRF Grenoble, France, *Mentor:* Prof. A. Pron.

**2000-2001:** Temporary Researcher, Rhodia Silicon Company (now Solvay), Lyon, France  
*Mentors:* Drs A. Pouchelon and G. Mignani.

**SCIENTIFIC CONTRIBUTIONS (Source: Web of Science 01/2021)**

**2 book chapters** (invited), **82 publications** including **3 reviews**, **8 granted patents** including 2 with licensing agreements, **16 invited and keynotes lectures** in international conferences and schools, **1 plenary lecture and 3 invited lectures** in national conferences, **32 contributed talks** in national, international conferences and workshops. **Web of Science:** H-Factor: **26**, Total citations > **2400**, average citations per article > **29**