

Sophie TENCE

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Research Experience and Interests

Solid state chemistry | Intermetallics | Insertion of light elements | Hydrides/Fluorides | Magnetocaloric materials | Superconducting materials | Electrides for catalysis | Heavy-fermion systems | Magnetism and magnetic structures | X-ray and neutron diffraction | Magnetic measurements |

Positions held & degrees

2021 : Habilitation (HDR), University of Bordeaux, Bordeaux, France
2012-present: CNRS Researcher (CRCN), Institute for Solid State Chemistry of Bordeaux, Bordeaux (ICMCB), France
2011-2012: Post-doc + ATER position, Néel Institute, Grenoble, France
2010-2011: Post-doc, Max Planck Institute for Chemical Physics of Solids, Dresden, Germany
2006-2009: PhD in materials chemistry, Léon Brillouin Laboratory (LLB-CEA-Saclay) and ICMCB, France
2004-2006: Teaching position, France
2004: Agregation of physics-chemistry
2003: Master & Magistere of condensed matter physics, Joseph Fourier University, Grenoble, France

Other activities

- Board member of Solid State Chemistry Division of Société Chimique de France (France) and editorial board of "Actualité Chimique" journal
- Board member of « Réseau de Recherche Innovation » Quantum Matter Bordeaux.
- 2017-2018: Scientific reviewer in ANR evaluation committee "Energy"
- 2015-2022: 50 h/year of teaching at chemistry engineer school (ENSCBP-Bordeaux INP), inorganic chemistry + lecture at winter school at "Les Houches" (2022)

Grants & Fellowships

- 2019 : Award of Physics of « l'Académie Nationale des Sciences, Belles-lettres et Arts de Bordeaux »
- Région Project « Néo Ammonia » : *Eco-efficient synthesis and decomposition of ammonia for energy and agrochemicals*, PI at ICMCB, 2020-2023
- Grant of Quantum Matter Bordeaux (12 k€), 2020
- ANR INTERMETALYST: *Intermetallic electrides : New materials for the catalytic synthesis of ammonia*, PI, 2020-2024
- ANR IRONMAN: *Novel As/Se-free Iron-based Superconductors*, scientific coordinator at ICMCB, 2018-2022
- ANR RAP: *Permanent magnet recycling*, participant, 2018-2022
- ANR MAGCOOL: *Novel materials with giant magnetocaloric effect around room temperature for applications based on magnetic refrigeration*, PI at ICMCB, 2011-2015
- PEPS energy exploratory project CYCLATER: *Recycling of rare-earths elements in permanent magnets*; PI, 2015-2016

Scientific production & supervision

40 articles in journals, 23 oral communications (6 invited), 2 post-docs, 4 PhD students