

**Chemistry and Molecular Sciences and Technologies (CMST)****Participating countries**

A, B, BG, CH, CZ, D, DK, E, EST, FIN, FR, GR, H, IRL, I, LT, NL, N, P, PL, SLO, S, TR, UK

COST Action no. CM1206

EXIL

Exchange on Ionic Liquids

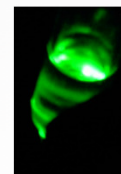
2013 | 2017

Objectives

- Knowledge and expertise exchange on ionic liquids (ILs)
- Establishing common standards
- Providing high quality data
- Battling misinformation
- Researcher Training
- From benchtop to application: Development of task-specific ionic liquids
- Harmonizing and seeding research activities on ILs throughout Europe

Main Achievements

- A pan-european network
- Leading experts from biology, chemistry, engineering and materials science
- Covering the whole range of IL research from fundamentals to application
- Strong ties to industry
- Active cyberexchange and open website
- Strong focus on researcher exchange via STSMs
- Sharing knowledge and equipment
- Stimulating innovative research

Task-specific ionic liquids:
luminescent, magnetic & liquid crystalline



Working Group activities

Working Group 1: Synthesis & Development

- Synthesis of ILs
- Design of task-specific ILs
- Standard synthesis protocols
- IL purity determination

Working Group 2: Chemical & Physical Properties

- Fundamental IL properties
- Determination of physicochemical properties
- Modelling

Working Group 3: Application of ILs

- Advanced electrolytes
- Inorganic materials
- Nanomaterials
- Organic synthesis and catalysis

Working Group 4 Long-term Prospects & Scale-up Challenges

- Scale-up
- Emerging technologies
- Commercial exploitation
- Commercialization
- Toxicity
- Bioaccumulation

Industry participation



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