



# Maria Boltoeva

**Date of birth:** 27/04/1982 | **Phone number:** (+33) 388106404 (Work) | **Email address:**  
[maria.boltoeva@iphc.cnrs.fr](mailto:maria.boltoeva@iphc.cnrs.fr) |

**Address:** IPHC, 23 rue du Loess, 67037, Strasbourg, France (Work)

**About me:**  
ORCID: [0000-0002-0330-8153](https://orcid.org/0000-0002-0330-8153)

## WORK EXPERIENCE

01/10/2012 – CURRENT Strasbourg, France

**CNRS PERMANENT RESEARCHER (SECTION 13)** INSTITUT PLURIDISCIPLINAIRE HUBERT CURIEN (IPHC, UMR 7178)

Research fields:

- Solution chemistry of metal ions, in particular actinides and lanthanides;
- Alternative solvents, namely room-temperature ionic liquids and deep eutectic solvents;
- Development of solvent extraction systems for the separation and recovery of metals;
- Metal speciation in environmental systems.

**Business or Sector** Professional, scientific and technical activities | **Department** Radiochemistry group |

**Address** 23 rue du Loess, 67037, Strasbourg, France | **Website** <https://www.iphc.cnrs.fr/>

2011 – 2012 Nantes, France

**POST-DOCTORAL FELLOWSHIP** SUBATOMIC PHYSICS AND ASSOCIATED TECHNOLOGIES LABORATORY (SUBATECH, UMR 6457)

2010 – 2011 Montpellier, France

**TEACHING AND RESEARCH TEMPORARY ATTACHÉ** INSTITUTE FOR MOLECULAR CHEMISTRY AND MATERIAL SCIENCES (ICGM, UMR 5253)

2008 – 2010 Bagnols-sur-Cèze, France

**POST-DOCTORAL FELLOWSHIP** INSTITUTE FOR THE SEPARATION CHEMISTRY (ICSM, UMR 5257)

## EDUCATION AND TRAINING

2019

**ACCREDITATION TO SUPERVISE RESEARCH (HDR)** University of Strasbourg

2005 – 2008

**DOCTORAL DEGREE: PH.D. IN RADIOCHEMISTRY** A.N. Frumkin Institute of Physical Chemistry and Electrochemistry of Russian Academy of Science

**Thesis** Catalytic Activity of Nanoaggregates of the Platinum Group Metals in Redox Reactions of the Actinide Ions in Water Media

1999 – 2005

**DIPLOMA OF CHEMISTRY** D.I. Mendeleev University of Chemical Technology of Russia

## ADDITIONAL INFORMATION

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### MANAGEMENT AND LEADERSHIP SKILLS

**Project leader** ERA-MIN 2 project LIMEX: Innovative Membrane Extraction of Lithium for Spent Lithium-Ion Battery Recycling (2019-2022, France, Sweden and Portugal)

**Project leader** PROFILE project "PRObing the aqueous interFace of an Ionic Liquid during Extraction", gathering four French laboratories and funded by the French National Research Agency (2018-2022)

**Task leader** PHENOM project "Phenomena on the liquid-liquid interface" financially supported by the Interdisciplinary Mission of the CNRS (2014)

**(co)Supervising of 4 thesis and numerous university trainees**

**Council member of the IPHC (2016)**

**Member of the thesis monitoring committee for DRS et du DRHIM of the IPHC (2016-2019)**

### ORGANISATIONAL SKILLS

**Co-organizer of International Workshop** "Liquid-liquid extraction with ionic liquids" (about 60 participants, April 24-26, 2016), Strasbourg, France

### PUBLICATIONS

[Lithium extraction from complex aqueous solutions using supported ionic liquid membranes](#) – 2019

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[Nickel\(II\) Complexation with Nitrate in Dry \[C4mim\]\[Tf2N\] Ionic Liquid: A Spectroscopic, Microcalorimetric, and Molecular Dynamics Study](#)

– 2016

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[Insights into the Mechanism of Extraction of Uranium \(VI\) from Nitric Acid Solution into an Ionic Liquid by using Tri-n-butyl phosphate](#)

– 2015

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### NETWORKS AND MEMBERSHIPS

**Scientific collaborations:** These individuals have collaborated with Dr. Boltoeva in the last 48 months:

- Dr. C. Gaillard, Institut de Physique Nucléaire de Lyon, France
- Dr. I. Billard, Laboratoire d'Electrochimie et de Physico-chimie des Matériaux et des Interfaces, Grenoble, France
- Pr. E. Benichou, Institut Lumière Matière, Lyon, France
- Dr. A.N. Turanov and Dr. V.K. Karandashev, Russian Academy of Sciences, Russia
- Dr. E.E. Tereshatov and Pr. C.M. Folden III, Cyclotron Institute, Texas A&M University, USA

### COMMUNICATION AND INTERPERSONAL SKILLS

**47 peer-reviewed publications in the international journals; H-index 17**