

EUROPEAN  
CURRICULUM VITAE  
FORMAT



PERSONAL INFORMATION

Name **TSURUMAKI AKIKO**

E-mail [REDACTED]

WORK EXPERIENCE

- Date (from - to) **11/05/2016 – PRESENT**
  - Position Assegnista di Ricerca
- Name and address of institution Department of Chemistry, Sapienza University of Rome - Piazzale Aldo Moro 5, 00185, Rome
- Date (from - to) **01/04/2015 – 09/05/2016**
  - Position Project Assistant Professor
- Name and address of institution Institute of Global Innovation Research, Tokyo University of Agriculture and Technology  
2-24-16 Naka-cho, Koganei, Tokyo 184-8588, Japan
- Date (from - to) **16/05/2012 – 31/03/2013**
  - Position Research Assistant
- Name and address of institution Department of Biotechnology and Life Science, Tokyo University of Agriculture and Technology

EDUCATION AND TRAINING

- Date (from - to) **01/04/2012 – 25/03/2015**
  - Title of qualification awarded Doctor of Engineering
  - Title of thesis Basic Studies and Functional Design of Fluorinated Polymer/Ionic Liquid Composites
- Name and address of institution Department of Biotechnology and Life Science, Tokyo University of Agriculture and Technology  
Prof. Dr. Hiroyuki Ohno
- Date (from - to) **01/04/2010 – 31/03/2015**
  - Title of qualification awarded Master of Engineering
  - Title of thesis Evaluation of compatibility between ionic liquids and polymers for the design of ion conductive materials (written in Japanese)
- Name and address of institution Department of Biotechnology and Life Science, Tokyo University of Agriculture and Technology
- Date (from - to) **01/04/2006– 31/03/2010**
  - Title of qualification awarded Bachelor of Engineering
  - Title of thesis Factors to control solubility of poly(ethylene oxide)s in ionic liquids (written in Japanese)
- Name and address of institution Department of Biotechnology and Life Science, Tokyo University of Agriculture and Technology

RESEARCH FUNDING

- Years **2020/2021**
  - Type of fund (amount) / Source Progetti per Avvio alla Ricerca – Tipo 2 / Sapienza University of Rome
  - Project title Design of multifunctional surface on inorganic ceramic solid electrolytes by using ionic liquids
- Years **2018/2019**
  - Type of fund (amount) / Source Progetti per Avvio alla Ricerca – Tipo 2 / Sapienza University of Rome

<ul style="list-style-type: none"> <li>• Project title</li> </ul>	<p>Novel inorganic-organic hybrid solid electrolytes integrated with ionic liquids as macro- and nano-scale binders</p>
<ul style="list-style-type: none"> <li>• Years</li> </ul>	<p><b>2017/2018</b></p>
<ul style="list-style-type: none"> <li>• Type of fund (amount) / Source</li> </ul>	<p>Progetti per Avvio alla Ricerca – Tipo 2 / Sapienza University of Rome</p>
<ul style="list-style-type: none"> <li>• Project title</li> </ul>	<p>A new class of polymer electrolytes based on poly(tetrafluoroethylene) and fluoro-functionalized ionic liquids with the intent of improved stability of advanced lithium ion batteries</p>
<ul style="list-style-type: none"> <li>• Years</li> </ul>	<p><b>2017/2018</b></p>
<ul style="list-style-type: none"> <li>• Type of fund (amount) / Source</li> </ul>	<p>Financial support for leading research in science and technology / Foundation for Interaction in Science &amp; Technology, Japan</p>
<ul style="list-style-type: none"> <li>• Project title</li> </ul>	<p>Improvement of thermal- and electrochemical-stability of electrolytes for lithium ion batteries by using fluorinated ionic liquids</p>
<ul style="list-style-type: none"> <li>• Years</li> </ul>	<p><b>2016/2017</b></p>
<ul style="list-style-type: none"> <li>• Type of fund (amount) / Source</li> </ul>	<p>Progetti per Avvio alla Ricerca – Tipo 2 / Sapienza University of Rome</p>
<ul style="list-style-type: none"> <li>• Project title</li> </ul>	<p>Fascicle preparation of novel polymer electrolytes based on poly(tetrafluoroethylene) and ionic liquids with the intent of improved stability of lithium ion batteries</p>
<ul style="list-style-type: none"> <li>• Years</li> </ul>	<p><b>2013/2015</b></p>
<ul style="list-style-type: none"> <li>• Type of fund (amount) / Source</li> </ul>	<p>DC2 Research Fellow / Japan Society for the Promotion of Science (JSPS)</p>
<ul style="list-style-type: none"> <li>• Project title</li> </ul>	<p>Design of ionic liquids as a solvent for poly(tetrafluoroethylene)</p>
<ul style="list-style-type: none"> <li>• Years</li> </ul>	<p><b>2012/2013</b></p>
<ul style="list-style-type: none"> <li>• Type of fund (amount) / Source</li> </ul>	<p>JIRITSU Research Scholarship / Tokyo University of Agriculture and Technology</p>
<ul style="list-style-type: none"> <li>• Project title</li> </ul>	<p>Design of ionic liquids as solvents for fluorinated polymers</p>
<ul style="list-style-type: none"> <li>• Years</li> </ul>	<p><b>2011/2011</b></p>
<ul style="list-style-type: none"> <li>• Type of fund (amount) / Source</li> </ul>	<p>International Training Program “International Program for Training Pre-Tenure-Track Young Researchers in Nano-Materials” / Japan Society for the Promotion of Science (JSPS)</p>
<ul style="list-style-type: none"> <li>• Project title</li> </ul>	<p>Design of ionic liquid/polymer composites as electrolytes (collaboration work with Prof. Bruno Scrosati’s group at the Sapienza University of Rome)</p>
<ul style="list-style-type: none"> <li>• Years</li> </ul>	<p><b>2011/2012</b></p>
<ul style="list-style-type: none"> <li>• Type of fund (amount) / Source</li> </ul>	<p>JIRITSU Research Scholarship / Tokyo University of Agriculture and Technology</p>
<ul style="list-style-type: none"> <li>• Project title</li> </ul>	<p>Factors to control micro-phase structures of ionic liquid/polymer composites</p>

## RECENT 5 PUBLICATIONS

1. Different approaches to obtain functionalized alumina as additive in polymer electrolyte membranes, L. Mazzapoda, M. Sgambetterra, A. Tsurumaki, M.A. Navarra, F.M. Vitucci, A. Paolone, O. Palumbo, S. Panero, J. Solid State Electrochem., in press.
2. Sn/C composite anodes for bulk-type all-solid-state batteries, G. Maresca, A. Tsurumaki, N. Suzuki, K. Yoshida, S. Panero, Y. Aihara, M.A. Navarra, Electrochim. Acta, 2021, 395, 139104.
3. Improvement of graphite interfacial stability in all-solid-state cells adopting sulfide glassy electrolytes, G. Maresca, A. Tsurumaki, N. Suzuki, T. Tsujimura, Y. Aihara, M.A. Navarra, ChemElectroChem, 2021, 8, 689-696.
4. Inter- and Intramolecular Interactions in Ether-Functionalized Ionic Liquids, O. Palumbo, F. Trequattrini, A. Cimini, A. Tsurumaki, M. A. Navarra, and A. Paolone, J. Phys. Chem. B, 2021, 125, 2380–2388.
5. Effect of the cation structure on cellulose dissolution in aqueous solutions of organic onium hydroxides, A. Tsurumaki, M Tajima, M Abe, D Sato, and H. Ohno, Phys. Chem. Chem. Phys., 2020, 22, 22602-22608.

## PRESENTATIONS

Total **46 ORAL PRESENTATIONS**  
**44 POSTER PRESENTATIONS**

## TEACHING ACTIVITIES

- Dates **2019/2020, 2020/2021**
- Subject The course of "Advanced Chemical Methods in Archaeological Material Science"  
LM-11 Scienze e Tecnologie per la Conservazione dei Beni Culturali
  
- Dates **2019/2020 – PRESENT**
- Subject Supervision of thesis as a "Relatore"  
**2019/2020** MSc student "Development of cleaning procedures of copper corrosion products by using "green" deep eutectic solvents"  
**2020/2021** MSc student "Development of hydrogel for the conservation of ancient roman coins"

## AWARDS

- Title of recognition (year) **BEST POSTER AWARD (2019)**
- Organization and place 5th International Conference on Ionic Liquid-based Materials (ILMAT5), Paris, France
  
- Title of recognition (year) **BEST POSTER AWARD (2016)**
- Organization and place International Meeting on Ionic Liquids for Electrochemical Devices (ILED2016), Rome, Italy

09/19/2021

**F.to Akiko Tsurumaki**