Pagina 1 - Curriculum vitae of Akiko TSURUMAKI EUROPEA

C URRICULUM VITAE	
Personal Information	
Name E-mail	TSURUMAKI Ακικο
Work Experience	
Date (from - to) Position Name and address of institution	11/05/2016 – PRESENT Assegnista di ricerca Department of Chemistry, Sapienza University of Rome - Piazzale Aldo Moro 5, 00185, Rome
Date (from - to) Position Name and address of institution	01/04/2015 – 09/05/2016 Project Assistant Professor Institute of Global Innovation Research, Tokyo University of Agriculture and Technology - 2-24-16 Naka-cho, Koganei, Tokyo 184-8588, Japan
Date (from - to) Position Name and address of institution	16/05/2012 – 31/03/2013 01/04/2010 – 31/03/2011 Research Assistant Department of Biotechnology and Life Science, Tokyo University of Agriculture and Technology - 2-24-16 Naka-cho, Koganei, Tokyo 184-8588, Japan
EDUCATION AND TRAINING	
Date (from - to) Title of qualification awarded Title of thesis Name and address of institution Supervisor Highlights	 01/04/2012 – 25/03/2015 Doctor of Engineering Basic Studies and Functional Design of Fluorinated Polymer/Ionic Liquid Composites Department of Biotechnology and Life Science, Tokyo University of Agriculture and Technology - 2-24-16 Naka-cho, Koganei, Tokyo 184-8588, Japan Prof. Dr. Hiroyuki Ohno Elucidation of correlations among structure of ionic liquids, their physicochemical properties, and the compatibility with fluorinated compounds Synthesis of novel ionic liquids for the dissolution of barely soluble fluorinated polymers Design of polymer electrolytes based on poly(tetrafluoroethylene)
Date (from - to) Title of qualification awarded Title of thesis Name and address of institution	01/04/2010 – 31/03/2015 Master of Engineering Evaluation of compatibility between ionic liquids and polymers for the design of ion conductive materials (written in Japanese) Department of Biotechnology and Life Science, Tokyo University of Agriculture and Technology - 2-24-16 Naka-cho, Koganei, Tokyo 184-8588, Japan
Pagina - Curriculum vitae of Akiko TSURUMAKI	

Date (from - to) Title of qualification awarded Title of thesis	01/04/2006 – 31/03/2010 Bachelor of Engineering 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 - 2-24-16 Naka-cho, Koganei, Tokyo 184-8588, Japan
Research Funding	
• Years	2020/2021
• Type of fund (amount) / Source	
Project title	Design of multifunctional surface on inorganic ceramic solid electrolytes by using ionic liquids
• Years	2018/2019 Drogotti par Avuja alla Bizaroa – Tipa 2 (2 000 EUR) / Sanjanza University of
• Type of fund (amount) / Source	
Project title	Novel inorganic-organic hybrid solid electrolytes integrated with ionic liquids as macro- and nano-scale binders
Years	2017/2018
• Type of fund (amount) / Source	
Project title	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
• Years	2017/2018
• Type of fund (amount) / Source	
Project title	Improvement of thermal- and electrochemical-stability of electrolytes for lithium ion batteries by using fluorinated ionic liquids
Years	2016/2017
• Type of fund (amount) / Source	
• Project title	Fascicle preparation of novel polymer electrolytes based on poly(tetrafluoroethylene) and ionic liquids with the intent of improved stability of lithium ion batteries
• Years • Type of fund (amount) /	2013/2015 DC2 Research Fellow (52,308 EUR) / Japan Society for the Promotion of
Source	
Project title	Design of ionic liquids as a solvent for poly(tetrafluoroethylene)
• Years	2012/2013
• Type of fund (amount) /	
Source • Project title	Agriculture and Technology Design of ionic liquids as solvents for fluorinated polymers
• Years	2011/2011
• Type of fund (amount) /	
Source	Track
	Young Researchers in Nano-Materials" (12,000 EUR) / Japan Society for the Promotion of Science (JSPS)
Project title	Design of ionic liquid/polymer composites as electrolytes (collaboration work with Prof. Bruno Scrosati's group at the Sapienza University of Rome)
• Years	2011/2012
Pagina <i>- Curriculum vitae of</i> Akiko TSURUMAKI	

• Type of fund (amount) / Source • Project title	JIRITSU Research Scholarship (4,615 EUR) / Tokyo University of Agriculture and Technology Factors to control micro-phase structures of ionic liquid/polymer composites
• Years • Type of fund (amount)	2010/2012 Honors Scholarship for study (8,123 EUR) / Japan Student Services Organization
LIST OF PUBLICATIONS	
1	Inter- and intramolecular interactions in ether-functionalized ionic liquids, O. Palumbo, F. Trequattrini, A. Cimini, <u>A. Tsurumaki</u> , M. A. Navarra, and A. Paolone, <i>J. Phys. Chem. B,</i> 2021, in press.
2	Improvement of graphite interfacial stability in all-solid-state cells adopting sulfide glassy electrolytes, G. Maresca, <u>A. Tsurumaki</u> , N. Suzuki, T. Tsujimura, Y. Aihara, M. A. Navarra, <i>ChemElectroChem</i> , 2021, 8, 689-696.
3	Effect of the cation structure on cellulose dissolution in aqueous solutions of organic onium hydroxides, <u>A. Tsurumaki</u> , M. Tajima, M. Abe, D. Sato, and H. Ohno, <i>Phys. Chem. Chem. Phys.</i> , 2020, 22, 22602-22608.
4	A novel Li ⁺ -conducting polymer membrane gelled by fluorine-free electrolyte solutions for Li ⁻ ion batteries, M. A. Navarra, <u>A. Tsurumaki</u> , F.M. Vitucci, A. Paolone, O. Palumbo, S. Panero, <i>Batteries & Supercaps</i> , 2020, 3, 1112-1119.
5	Enhanced safety and galvanostatic performance of high voltage lithium batteries by using ionic liquids, <u>A. Tsurumaki</u> , M. Agostini, R. Poiana, L. Lombardo, E. Lufrano, C. Simari, A. Matic, I. Nicotera, S. Panero, M. A. Navarra, <i>Electrochim. Acta</i> , 2019, 316, 1-7.
6	Bis(oxalato)borate and difluoro(oxalato)borate-based ionic liquids as electrolyte additives to improve the capacity retention in high voltage lithium batteries, <u>A.</u> <u>Tsurumaki</u> , M. Branchi, A. Rigano, R. Poiana, S. Panero, M. A. Navarra,
7	<i>Electrochim. Acta</i> , 2019, 315, 17-23. Preparation of epoxy resins derived from lignin solubilized in tetrabutylphosphonium hydroxide aqueous solutions, M. Nagatani, <u>A.</u> <u>Tsurumaki</u> , K. Takamatsu, H. Saito, N. Nakamura, H. Ohno, <i>In. J. Biol.</i> <i>Macromolecules</i> , 2019, 132, 585-591.
8	Polymerized ionic liquids as durable antistatic agents for polyether-based polyurethanes, <u>A. Tsurumaki</u> , T. Iwata, M. Tokuda, H. Minami, M. A. Navarra, H. Ohno, <i>Electrochim. Acta</i> , 2019, 308, 115-120.
9	Novel bis(fluorosulfonyl) imide-based and ether-functionalized ionic liquids for lithium batteries with improved cycling properties, <u>A. Tsurumaki</u> , H. Ohno, S. Panero, M. A. Navarra, <i>Electrochim. Acta</i> , 2019, 293, 160-165.
10	Gel polymer electrolytes based on silica-added poly (ethylene oxide) electrospun membranes for lithium batteries, M. A. Navarra, L. Lombardo, P. Bruni, L. Morelli, A. Tsurumaki , S Panero, F. Croce, <i>Membranes</i> , 2018, 8, 126.
11	The effect of ether-functionalisation in ionic liquids analysed by DFT calculation, infrared spectra, and Kamlet–Taft parameters, <u>A. Tsurumaki</u> , F. Trequattrini, O. Palumbo, S. Panero, A. Paolone, and M. A. Navarra, <i>Phys. Chem. Chem. Phys.</i> , 2018, 20, 7989-7997.
12	Dissolution of oligo(tetrafluoroethylene) and preparation of poly(tetrafluoroethylene)-based composites by using fluorinated ionic liquids, <u>A.</u> <u>Tsurumaki</u> and H. Ohno, <i>Chem. Commun.</i> , 2018, 54, 409-412.
13	Evaluation of ionic liquids as novel antistatic agents for polymethacrylates, <u>A.</u> <u>Tsurumaki</u> , S. Tajima, T. Iwata, B. Scrosati and H. Ohno, <i>Electrochim. Acta</i> , 2017, 248, 556-561.
14	New ether-functionalized morpholinium- and piperidinium-based ionic liquids as electrolyte components in lithium and lithium–ion batteries, M. A. Navarra, K. Fujimura, M. Sgambetterra, <u>A. Tsurumaki</u> , S. Panero, N. Nakamura, H. Ohno, and B. Scrosati, <i>Chem. Sus. Chem.</i> , 2017, 10, 2496–2504.
Pagina - Curriculum vitae of	

15	Induction of lignin solubility for a series of polar ionic liquids by the addition of a small amount of water, T. Akiba, <u>A. Tsurumaki</u> , and H. Ohno, <i>Green Chem</i> .,
	2017,19, 2260-2265.
16	Dielectric relaxations of polyether-based polyurethanes containing ionic liquids as antistatic agents, <u>A. Tsurumaki</u> , F. Bertasi, K. Vezzu, E. Negro, V. Di Noto, and H. Ohno, <i>Phys. Chem. Chem. Phys.</i> , 2016, 18, 2369-2378.
17	Antistatic effects of ionic liquids for polyether-based polyurethanes, <u>A.</u> <u>Tsurumaki</u> , S. Tajima, T. Iwata, B. Scrosati and H. Ohno, <i>Electrochim. Acta</i> , 2015, 175, 13-17.
18	Bis(trifluoromethanesulfonyl)imide-type ionic liquids as excellent antistatic agents for polyurethanes, T. Iwata, <u>A. Tsurumaki</u> (equally contributed as first author), S. Tajima, and H. Ohno, <i>Macromol. Mat. Eng.</i> , 2014, 299, 794-798.
19	Fixation of ionic liquids into polyether-based polyurethane films to maintain long- term antistatic properties, T. Iwata, <u>A. Tsurumaki</u> (equally contributed as first author), S. Tajima and H. Ohno, <i>Polymer</i> , 2014, 55, 2501-2504.
20	N-n-Butyl-N-methylpyrrolidinium hexafluorophosphate-added electrolyte solutions and membranes for lithium-secondary batteries, <u>A. Tsurumaki</u> , M. A. Navarra, S. Panero, B. Scrosati, and H. Ohno, <i>J. Power Sources</i> , 2013, 233, 104-109.
21	Properties of polymer electrolytes composed of poly(ethylene oxide) and ionic liquids according to hard and soft acids and bases theory, <u>A. Tsurumaki</u> , J. Kagimoto, and H. Ohno, <i>Polym. Adv. Technol.</i> , 2011, 22, 1223-1228.
PATENT	(特開 2018-24585)
	セルロースアセテート溶解用イオン液体及びセルロースアセテート溶解液並
	びにセルロースアセテート繊維の製造方法 (lonic liquids for dissolution and
	spinning of cellulose acetate)
LIST OF	
PRESENTATIONS	
Total	41 ORAL PRESENTATIONS
Invited presentations	44 POSTER PRESENTATIONS
1	Dissolution of woody biomass with onium hydroxide solutions, ○A. Tsurumaki,
2	PAThlestra, Aveiro, Portugal. (Jun 2016) Ionic liquids as sustainable and designable antistatic agents for polymers, oA.
	Tsurumaki, F.
	Bertasi, K. Vezzú, S. Lavina, V. Di Noto, and H. Ohno, 1st Korea-Japan Joint Symposium on Ionic Liquids / Pre-Symposium of COIL6, Daegu, Korea. (Jun 2015)
3	Design of ionic liquids to enhance excellent and sustainable antistatic properties for polyetherbased polyurethanes, oA. Tsurumaki, 3rd Green Sustainable Chemistry Seminar, Tottori, Japan. (Dec 2014)
4	(Presented in Japanese) Milestones in Ph.D. course, oA. Tsurumaki, 95th Annual meeting of Japan Chemistry Society, Chiba, Japan. (Mar 2015)
TEACHING ACTIVITIES	
• Dates • Subject	2019/2020 – PRESENT The course of "Advanced Chemical Methods in Archaeological Material Science" LM-11 Scienze e Tecnologie per la Conservazione dei Beni Culturali
Pagina - Curriculum vitae of	

Pagina - Curriculum vitae of Akiko TSURUMAKI

• Dates • Subject	 2019/2020 – PRESENT Supervision of thesis as a "Relatore" 2019/2020 Shraddha Khaire "Development of cleaning procedures of copper corrosion products by using "green" deep eutectic solvents" 2020/2021 Bianca Werneck "Development of hydrogel for the conservation of ancient roman coins"
Awards	
 Title of recognition (year) Organization and place 	BEST POSTER AWARD (2019) 5th International Conference on Ionic Liquid-based Materials (ILMAT5), Paris, France
 Title of recognition (year) Organization and place 	BEST POSTER AWARD (2016) International Meeting on Ionic Liquids for Electrochemical Devices (ILED2016), Rome, Italy