References

1. Plechkova NV, Seddon KR. Applications of ionic liquids in the chemical industry. *Chem Soc Rev.* 2008; 37: 123-150.
2. Subbiah S, Venkatesan S, Ming-Chung T, Yen-Ho Ch. On the chemical stability of ionic liquids. *Molecules* 2009; 14:3780-3813.
3. Ebner G, Schiehser S, Potthast A, Rosenau T. Side reaction of cellulose with common 1-alkyl-3-methylimidazolium-based ionic liquids. *Tetrahedron Lett.* 2008; 49: 7322-7324.
4. Bonhote P, Dias AP, Papageorgiou N, Kalyanasundaram K, Gratzel M. Hydrophobic, Highly Conductive Ambient-Temperature Molten Salts. *Inorg Chem.* 1996; 35: 1168-1178.
5. McEwen AB, Ngo HL, LeCompte H, Goldman JL. Electrochemical properties of imidazolium salt electrolytes for electrochemical capacitor applications. *J Electrochem Soc.* 1999; 146: 1687-1695.
6. Holbrey JD, Seddon KR. The phase behaviour of 1-alkyl-3-methylimidazolium tetrafluoroborates: ionic liquids and ionic liquid crystals. *J Chem Soc. Dalton Trans.* 1999; 2133–2139.
7. Ngo HL, Le Compte H, Hargens L, McEwen AB. Thermal properties of imidazolium ionic liquids. *Thermochim Acta.* 2000; 357–358: 97-102.
8. Huddleston JG, Visser AE, Reichert WM, Willauer HD, Broker GA, Rogers RD. Characterization and Comparison of Hydrophilic and Hydrophobic Room Temperature Ionic Liquids Incorporating the Imidazolium Cation. *Green Chem.* 2001; 3: 156-164.
9. Van Valkenburg ME, Vaughn RL, Williams M, Wilkes JS. Ionic liquid heat transfer fluids, *15th Symposium of Thermophysical Properties;* 2003 Jun 22–27; Boulder, CO.
10. Pinkert A, Marsh KN, Pang S, Staiger MP. Ionic Liquids and their interaction with cellulose. *Chem Rev.* 2009; 109:6712-6728.
11. Endres F, Zein El Abedin S. Air and water stable ionic liquids in physical chemistry. *Phys Chem Chem Physics* 2006; 8:2101-2116.
12. Swatloski RP, Spear SK, Holbrey JD, Rogers SD. Dissolution of cellulose with ionic liquids. *J Am Chem Soc.* 2002; 124: 4974-4975.
13. Heinze T, Liebert T. Unconventional methods in cellulose functionalization. *Progress Polym Sci.* 2001; 26: 689-1762.
14. Heinze T, Koschella A. Solvents applied in the field of cellulose chemistry - a mini review. *Polímeros: Ciência e Tecnologia* 2005; 15:84-90.
15. Fischer S, Leipner H, Thümmler K, Brendler E, Peters J. Inorganic molten salts as solvents for cellulose. *Cellulose* 2003; 10:227-236.
16. Huddleston JG, Visser AE, Reichert VM, Willauer HD, Broker GA, Rogers RD. Characterization and comparison of hydrophilic and hydrophobic room temperature ionic liquids incorporating the imidazolium cation. *Green Chem.* 2001; 3:156-164.
17. Hermanutz F, Gähr F, Uerdingen E, Meister F, Kosan B. New Developments in Dissolving and Processing of Cellulose in Ionic Liquids. *Macromol Symp.* 2008; 262: 23-27.
18. Zhu S, Wu Y, Chen O, et al. Dissolution of cellulose with ionic liquids and its application: a mini-review. *Green Chem.* 2006; 8: 325-327.
19. Kuzmina O, Sashina E, Troshenkowa S, Wawro D. Dissolved state of cellulose in ionic liquids - the impact of water. *FIBRES & TEXTILES in Eastern Europe* 2010, 18, 3 (80): 32-37.
20. Wawro D, Hummel M, Michud A, Sixta H. Strong cellulosic film cast from ionic liquid solutions. *FIBRES & TEXTILES in Eastern Europe* 2014; 22, 3(105): 35-42.
21. Kilpeläinen S, Xie H, King A, Granstrom M, Heikkinen S, Argyropoulous DS. Dissolution of wood in ionic liquids. *J Agric Food Chem.* 2007; 55: 9141-9148.
22. Han S, Li J, Zhu S, et al. Potential applications of ionic liquids in wood related industries. *BioResources* 2009; 4: 825-834.

23. Zavrel M, Bross D, Funke M, Büchs J, Spiess AC. High-throughput for ionic liquids dissolving (lingo)-cellulose. *Bioresource Technol.* 2009; 100:2580-2587.
24. Fort DA, Remsing RC, Swatloski RP, Moyna G, Rogers RD. Can ionic liquids dissolve wood? Processing and analysis of lignocellulosic materials with 1-n-butyl-3-methylimidazoulim chloride. *Green Chem.* 2007; 9: 63-69.
25. Sun N, Rahman M, Quin Y, Maxim ML, Rodriquez H, Rogers RD. Complete dissolution and partial delignification of wood in the ionic liquid 1-ethyl-3-methylimidazolioum acetate. *Green Chem.* 2009; 11: 646-655.
26. Surma-Ślusarska B, Danielewicz D. Solubility of various types of cellulose in ionic liquids. *Przegl Papiern.* 2012; 68: 43-48 (in Polish).
27. Surma-Ślusarska B, Danielewicz D, Kaleta M. Comparison of properties of various types of cellulose before and after regeneration from ionic liquids. *Przegl Papiern.* 2012; 68: 99-103 (in Polish).
28. Holnglu X, Wielun S. Wood liquefaction by ionic liquids. *Holtzforshung* 2006; 60: 509-512.
29. Feng L, Chen Z. Research progress on dissolution and functional modification of cellulose in ionic liquids. *J Mol Liq*. 2008; 142:1-5.
30. Heintze T, Dorn S, Schöbitz M, Liebert T, Köhler S, Meister F. Interaction of ionic liquids with polysaccharides – 2: Cellulose. *Macromol Symp.* 2008; 262:8-22.
31. Miechell AJ. Hydrogen bonding in lignins and in related alcohols and phenols. *Cell Chem Technol.* 1982; 16: 87-101.
32. Kosmulski M, Gustafsson J, Rosenholm JB. Thermal stability of low temperature ionic liquids revisited. *Thermochim Acta.* 2004; 412: 47-53.
33. Almeida HF, Passos H, Lopes-da-Silva JA, Fernandes AM, Freire MG, Coutinho AP. Thermophysical properties of five acetate-based ionic liquids. *J Chem Eng.* 2012; 57: 3005-3013.
34. Silverstein RM, Webster FX, Kiemle DJ. *Spectroscopic methods of identification of organic compounds*. Warszawa: Wydawnictwo Naukowe PWN; 2007.
35. Ghosh A, Mi Y. Metal ion complexes and their relationship to pulp brightness. *J Pulp Paper Sci.* 1998; 24: 26-30.
36. Imsgard F, Falkehag SI, Kringstad KP. On possible chromophoric structures in spruce wood. *TAPPI J.* 1971; 54: 1680-1694.
37. Gosselink RJA, Abächerli A, Semke H, et al. Analytical protocol for characterization of sulphur-free lignin. *Ind. Crops Prod.* 2004; 19: 271-281.
38. Tejado A, Peňa Labidi J, Echeverria JM, Mondragon I. Physico-chemical characterization of lignins from different sources for use in phenol-formaldehyde resin synthesis. *Bioresource Technol.* 2007; 98: 1655-1663.
39. Liang CY, Bassett KH, McGinnes EA, Marchessault RH. Infrared spectra of crystalline polysaccharides. VII. Thin wood sections. *TAPPI J.* 1960; 43: 1017-1021.