

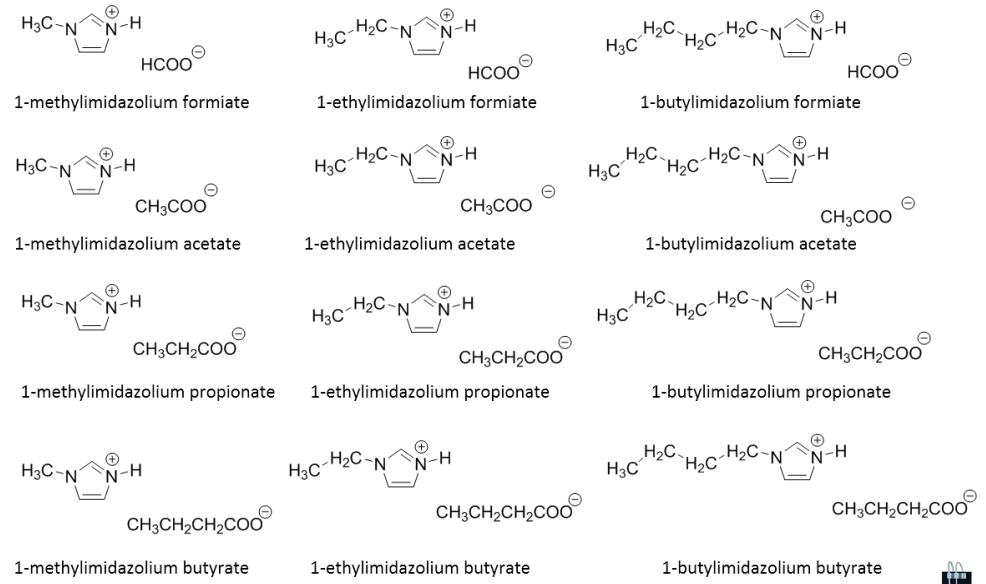
# Acid-base equilibria in pseudo-protic ionic liquids and in their mixtures with water

STSM for: Prof. dr Milan Vraneš



Network for Equilibria and Chemical Thermodynamics  
Advanced Research  
COST ACTION 18202

## Structures of the synthesised pseudo-protic ionic liquids



STSM Host: Prof.dr Marija Bešter-Rogač

## Methods:

- Synthesis
- Physico-chemical characterization
- Density
- Viscosity
- Electrical conductivity

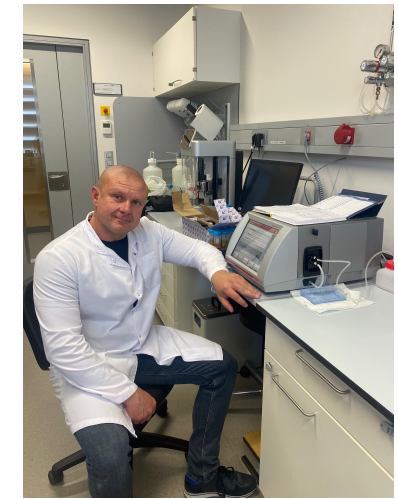
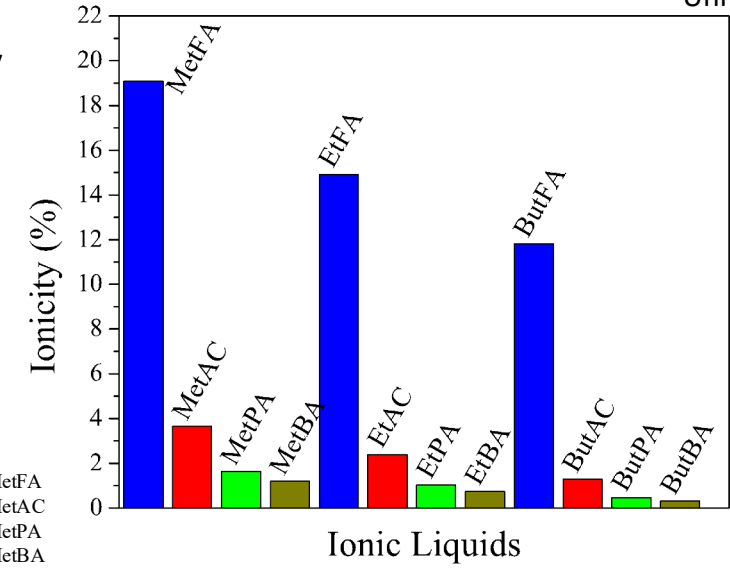
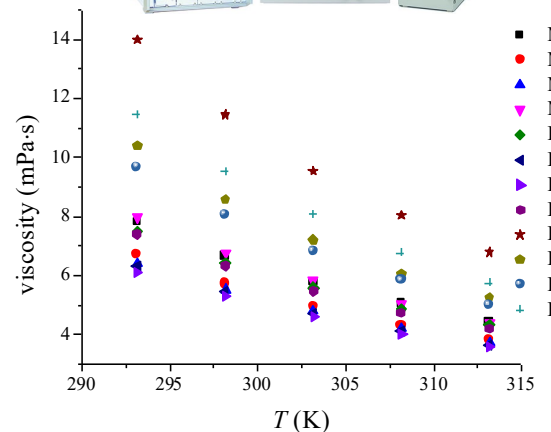
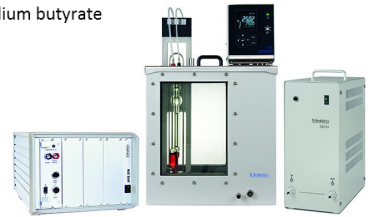
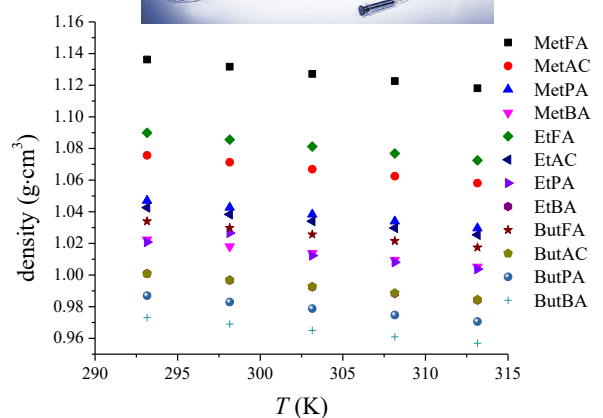


Origin institution:  
PMF, Faculty of Sciences  
University of Novi Sad



Univerza v Ljubljani  
Fakulteta za kemijo in kemijsko tehnologijo

Host institution: FKKT,  
Faculty of Chemistry and Chemical  
Technology  
University of Ljubljana



ACIDITY CONSTANTS OF COMPOUNDS FOR IL SYNTHESIS (pK <sup>a</sup> )			
1-methylimidazole	1-ethylimidazole	1-butylimidazole	
7.2	7.28	7.21	
FORMIC ACID	ACETIC ACID	PROPANOIC ACID	BUTIRIC ACID
3.75	4.75	4.88	4.82

**IONIORITY is affected by 2 parameters:**  
 1. difference in acidity constants  
 2. difference in size of cations and anions of ionic liquids