

CV

Matevž Turk

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📞 /
🌐 <https://matevzturk.github.io/>
📍 Uppsala, SWE
𝙶 Google Scholar [id ORCID](#) [GitHub](#)



Summary

1st year PhD student in Theoretical Structural Chemistry Group at Uppsala University.

Education

Ph.D in Theoretical Chemistry Ongoing
Uppsala Universitet

M.S. in Chemistry 2025
University of Ljubljana
GPA: 9.9 / 10.0

B.S. in Chemistry 2022
University of Ljubljana
GPA: 9.9 / 10.0

Work Experience

Chemistry Teacher Sep 2024 - Jun 2025
Gimnazija Novo mesto
Worked as a full-time chemistry teacher at an elite high school.

Research Assistant Aug 2022 - Aug 2024
Krka d.d.
Worked as a Research Assistant during the summers of 2022, 2023, and 2024.

Publications

Interaction of Sodium Polystyrenesulfonate with Fluorinated Ionic Surfactant of Opposite Charge 2025
Langmuir
[View Publication](#)

Integral equation theory study of the two dimensional SRSS model

2025

Computational and Theoretical Chemistry

[View Publication](#)

Areas of anomalous properties as function of shape of potential

2024

Fluid Phase Equilibria

[View Publication](#)

Conference Posters

Determination of anomalous regions and phase transitions in continuous shouldered well model

2023

38th International Conference on Solution Chemistry

Belgrade, Serbia

Anomalous regions and phase transitions in core-softened models

2022

3rd European NECTAR Conference

Ljubljana, Slovenia

Anomalous regions in core-softened models

2022

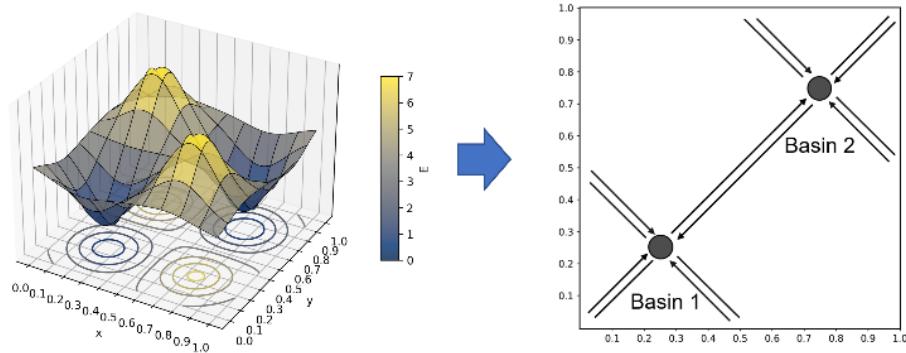
37th International Conference on Solution Chemistry

Columbia, USA

Portfolio

Modelling Diffusion in Solid-State Electrolytes

Development of computational tools based on the TuTraSt algorithm for calculating self-diffusion coefficients of ions in solid-state electrolytes.

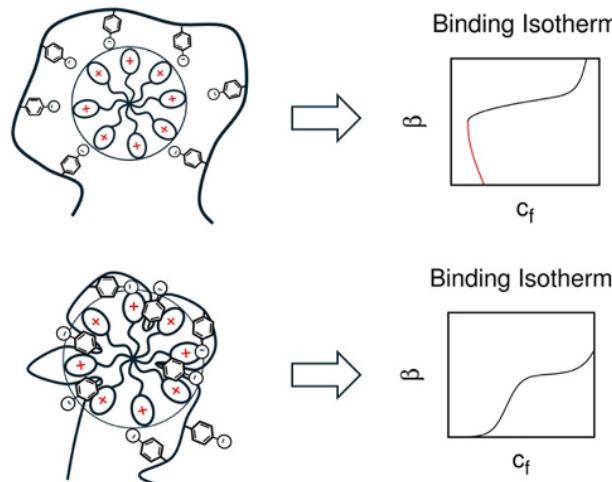


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Studying Fluorinated Surfactant - Polyelectrolyte Interactions

Study of interactions between sodium polystyrene sulfonate and cationic surfactants to

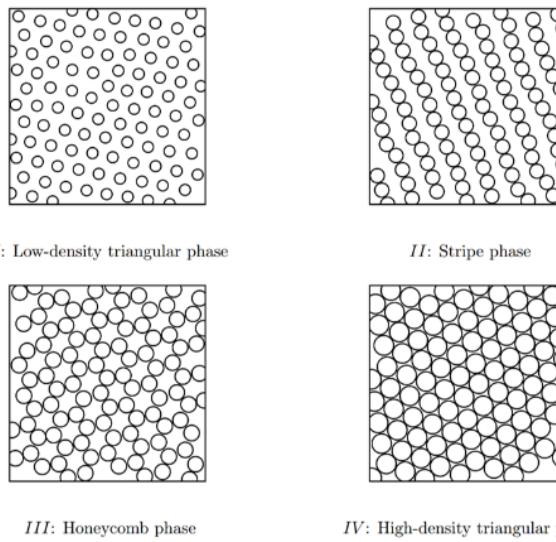
elucidate the role of hydrophobicity in polyelectrolyte–surfactant complex formation.



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Thermodynamics of Simple Water Models

Investigation of the phase behavior and anomalous properties of core-softened water models using molecular simulations and integral equation theory.



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Exchanges

EUTOPIA Exchange

Vrije Universiteit Brussel

Performed grand-canonical Monte Carlo simulations to investigate gas adsorption in ZIFs for thermal battery applications.

Apr 2024 - May 2024

Erasmus+ Exchange

Uppsala University

Conducted research on polyelectrolyte–surfactant systems while completing advanced theoretical and organic chemistry courses.

Sep 2023 - Feb 2024

Awards

University Prešeren Award	2025
University of Ljubljana	
Krka Award for Outstanding Graduate Thesis	2025
Krka d.d.	
University Award for Highest GPA in Academic Year 2020-2021	2022
University of Ljubljana	

Languages

Slovenian	C2
English	C1
German	B1

References

Prof. Amber Mace

Assistant Professor at Uppsala University. Contact: amber.mace@kemi.uu.se

Prof. Ksenija Kogej

Full-time Professor at University of Ljubljana. Contact: Ksenija.Kogej@fkkt.uni-lj.si

Prof. Per Hansson

Full-time Professor at Uppsala University. Contact: per.hansson@ilk.uu.se

Prof. Tomaž Urbič

Full-time Professor at University of Ljubljana. Contact: Tomaz.Urbic@fkkt.uni-lj.si

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