



# Tibor Gergő Halmágyi

Nationality: Hungarian Date of birth: 13/07/1995

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## WORK EXPERIENCE

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### Postdoctoral researcher

*MTA-SZTE "Lendület" Biocolloids Research Group, University of Szeged* [ 01/09/2023 – Current ]

City: Szeged

Country: Hungary

### PhD student

*Université de Pau et des Pays de l'Adour* [ 01/09/2020 – 31/08/2023 ]

City: Pau

Country: France

### University research assistant

*University of Szeged* [ 2019 – 2020 ]

City: Szeged

Country: Hungary

## EDUCATION AND TRAINING

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### PhD - Chemistry of Polymers

*Université de Pau et des Pays de l'Adour* [ 01/09/2020 – Current ]

City: Pau

Country: France

### MSc - Chemistry

*University of Szeged* [ 01/09/2018 – 31/08/2020 ]

City: Szeged

Country: Hungary

### BSc - Chemistry

*University of Szeged* [ 01/09/2014 – 31/08/2018 ]

City: Szeged

Country: Hungary

## LANGUAGE SKILLS

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Mother tongue(s): **Hungarian**

Other language(s): **English - Fluent** | **French - Conversational**

## TEACHING ACTIVITIES

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### **Colloidal Systems and Surfactants - Lecture**

[ 2021 – 2023 ]

### **Adhesion and Adhesives - Laboratory**

[ 2021 – 2023 ]

### **Introduction to Polymers - Seminar**

[ 2021 – 2022 ]

### **Thermodynamics of Macromolecular Solutions - Lecture**

[ 2020 – 2022 ]

## PUBLICATIONS

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### **Dual functionality of ferrocene-based metallopolymers as radical scavengers and nanoparticle stabilizing agents**

[2023]

Nanoscale, 2023, 15, 11875

Nizar B. Alsharif, **Tibor Gergo Halmágyi**, Mark A. Hempenius, G. Julius Vancso, Corinne Nardin and Istvan Szilagy

### **Poly(ferrocenylsilane) Hydrogels as a Foundry for Metal Nanoparticle Synthesis by Direct Reduction of Electrolytes via a Catalytic Route**

[2022]

ACS Appl. Nano Mater. 2022, 5, 7, 8868–8874

**Tibor Halmagyi**, Jinmeng Hao, Mark A. Hempenius, and Gyula Julius Vancso

### **Operando cathode activation with alkali metal cations for high current density operation of water-fed zero-gap carbon dioxide electrolyzers**

[2021]

Nat Energy 6, 439–448 (2021).

Balázs Endrődi, A Samu, Egon Kecsenovity, **T Halmágyi**, Dániel Sebők, Csaba Janáky

### **High carbonate ion conductance of a robust PiperION membrane allows industrial current density and conversion in a zero-gap carbon dioxide electrolyzer cell**

[2020]

Energy Environ. Sci., 2020, 13, 4098

B. Endrodi, E. Kecsenovity, A. Samu, **T. Halmagyi**, S. Rojas-Carbonell, L. Wang, Y. Yan and C. Janaky

## CONFERENCES AND SEMINARS

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### **Towards a highly stable, reusable and redox active gold-nanoparticle-based aptasensor**

[ Louvain-la-Neuve, Belgium, 27/06/2023 ]

Plenary days of the GDR Bioengineering of Interfaces

## **HOBBIES AND INTERESTS**

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**Chess**

**Reading**

**Writing**

**Running**

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