

CURRICULUM VITAE

Personal

Name:	Adél Szerlauth	
Born:	Budapest, 14 April 1996	
Nationality:	Hungarian	
Telephone:	+36(70)/3344021 +36(62)/34 3177	
E-mail:	szerlauth.adel@szte.hu	
ResearchGate:	https://www.researchgate.net/profile/Adel-Szerlauth	
ORCID:	0000-0001-5795-572X	

Education

2020 – present	Doctoral School of Chemistry Department of Physical Chemistry and Materials Science, Faculty of Science and Informatics <i>The University of Szeged, Szeged, Hungary</i>
2023. 09. – 2023. 12.	Visiting Research Student Interdisciplinary Nanoscience Center (iNANO) <i>Aarhus University, Aarhus, Denmark</i>
2022. 10. – 2023. 01.	Visiting Research Student Australian Institute for Bioengineering and Nanotechnology (AIBN) <i>The University of Queensland, Brisbane, Australia</i>
2018 – 2020	Master's Degree of Chemistry Faculty of Science and Informatics <i>University of Szeged, Szeged, Hungary</i>
2014 – 2018	Bachelor's Degree of Molecular Bionics Engineering Faculty of Science and Informatics <i>University of Szeged, Szeged, Hungary</i>
2010 – 2014	Kalocsai Szent István Gimnázium <i>High school, Kalocsa, Hungary</i>

Languages

Hungarian: native

English: fluent

German: basic

Teaching activity

General Chemistry Laboratory (6 semesters)

Co-supervision (4 BSc students and 2 high school students)

Publications

A. Szerlauth, S. Varga, I. Szilágyi

Molecular antioxidants maintain synergistic radical scavenging activity upon co-immobilization on clay nanoplatelets

ACS Biomaterials Science & Engineering (2023)

I.Z. Papp, A. Szerlauth, T. Szűcs, P. Bélteky, J.F.G. Perez, Z. Kónya, Á. Kukovecz

Fabrication and characterization of a biofunctional zinc oxide/multiwalled carbon nanotube/poly (3,4-ethylenedioxythiophene): polystyrene sulfonate composite thin film

Thin Solid Films 778 (2023) 139908

A. Szerlauth, Z.D. Kónya, G. Papp, Z. Kónya, Á. Kukovecz, M. Szabados, G. Varga, I. Szilágyi

Molecular orientation rules the efficiency of immobilized antioxidants

Journal of Colloid and Interface Science 632 (2023) 260

A. Szerlauth, Á. Varga, T. Madácsy, D. Sebők, S. Bashiri, M. Skwarczynski, I. Toth, J. Maléth, I. Szilágyi

Confinement of triple-enzyme-involved antioxidant cascade in two-dimensional nanostructure

ACS Materials Letters 5 (2023) 565

B. Katana, K.P. Kókai, S. Sáringér, A. Szerlauth, D. Takács, I. Szilágyi

The influence of solvent and colloidal Particles on the efficiency of molecular antioxidants

Antioxidants 12 (2022) 99

M. Pavlovic, A. Szerlauth, S. Muráth, G. Varga, I. Szilágyi

Surface modification of two-dimensional layered double hydroxide nanoparticles with biopolymers for biomedical applications

Advanced Drug Delivery Reviews (2022) 114590

N.B. Alsharif, G.F. Samu, S. Sáringer, **A. Szerlauth**, D. Takács, V. Hornok, I. Dékány, I. Szilágyi

Antioxidant colloids via heteroaggregation of cerium oxide nanoparticles and latex beads

Colloids and Surfaces B: Biointerfaces 216 (2022) 112531

A. Szerlauth, L. Szalma, S. Muráth, S. Sáringer, G. Varga, L. Li, I. Szilágyi

Nanoclay-based sensor composites for the detection of molecular antioxidants

Analyst 147 (2022) 1367

A. Szerlauth, E. Balog, D. Takács, S. Sáringer, G. Varga, G. Schuszter, I. Szilágyi

Self-assembly of delaminated layered double hydroxide nanosheets for the recovery of lamellar structure

Colloid and Interface Science Communications 46 (2022) 100564

B. Katana, D. Takács, **A. Szerlauth**, S. Sáringer, G. Varga, A. Jamnik, F.D. Bobbink, P.J. Dyson, I. Szilágyi

Aggregation of halloysite nanotubes in the presence of multivalent ions and ionic liquids

Langmuir 37 (2021) 11869

D. Takács, B. Katana, **A. Szerlauth**, D. Sebők, M. Tomsic, I. Szilágyi

Influence of adsorption of ionic liquid constituents on the stability of layered double hydroxide colloids

Soft Matter 17 (2021) 9116

A. Szerlauth, S. Muráth, I. Szilágyi

Layered double hydroxide-based antioxidant dispersions of high colloidal and functional stability

Soft Matter 16 (2020) 10518

S. Muráth, **A. Szerlauth**, D. Sebők, I. Szilágyi

Layered Double Hydroxide Nanoparticles to Overcome the Hydrophobicity of Ellagic Acid: An Antioxidant Hybrid Material

Antioxidants 9 (2020) 153

A. Szerlauth, S. Muráth, S. Viski, I. Szilágyi

Radical scavenging activity of plant extracts from improved processing

Heliyon 5 (2019) e02763

S. Sáringér, R. A. Akula, **A. Szerlauth, I. Szilágyi**

Papain Adsorption on Latex Particles: Charging, Aggregation and Enzymatic Activity

The Journal of Physical Chemistry B 123 (2019) 9984

Conferences

A. Szerlauth, S. Varga, I. Szilágyi

Heterogenization of synergistic antioxidants on 2D nanoparticles

12th International Colloids Conference

Palma de Mallorca (Spain), 2023, poster presentation

A. Szerlauth, Á. Varga, T. Madácsy, J. Maléth, I. Szilágyi

Confinement of triple enzyme cascade in layered double hydroxide-based nanocomposites to prevent oxidative stress

96th ACS Colloid and Surface Science Symposium

Golden (Colorado, USA), 2022, oral presentation

A. Szerlauth, Á. Varga, T. Madácsy, J. Maléth, I. Szilágyi

Immobilization of antioxidant enzymes on layered double hydroxide nanosheets to prevent oxidative stress

18th European Student Colloid Conference

Szeged (Hungary), 2022, oral presentation

A. Szerlauth, A.A. Ádám, G. Varga, I. Szilágyi

Layered double hydroxide-based hybrid colloids for catalytic transfer hydrogenation

11th International Colloids Conference

Lisbon (Portugal), 2022, poster presentation

A. Szerlauth, E. Balog, D. Takács, S. Sáringér, G. Varga, G. Schuszter, I. Szilágyi

Aggregation study on restacking ability of layered double hydroxide nanosheets

The 33rd Australian Colloid and Surface Science Student Conference

Mawson Lakes (Australia), 2022, oral presentation (online)

A. Szerlauth, E. Balog, D. Takács, S. Sáringer, G. Varga, G. Schuszter, I. Szilágyi
Aggregation study on the recovery of the lamellar structure of layered double hydroxides
35th Conference of the European Colloid & Interface Society
Athens (Greece), 2021, oral presentation (online)

A. Szerlauth, L. Szalma, S. Muráth, I. Szilágyi
Paper-based antioxidant detection using the CUPRAC assay
ACS Spring 2021 Meeting – Macromolecules Chemistry: The Second Century
online, 2021, oral presentation (co-author)

A. Szerlauth, S. Muráth, I. Szilágyi
Design of an efficient antioxidant composite of high functional and colloidal stability
Geneva Colloids
online, 2021, poster presentation

A. Szerlauth, S. Muráth, D. Sebők, I. Szilágyi
Ellagsav alapú réteges kettős hidroxid hibridek antioxidáns aktivitása
XLII. Kémiai Előadói Napok
Szeged (Hungary), 2019, oral lecture

S. Muráth, **A. Szerlauth**, D. Kádár, D. Sebők, I. Szilágyi
Immobilized antioxidants and their radical scavenging activity
257th American Chemical Society National Meeting and Exposition (Chemistry for New Frontiers)
Orlando (USA), 2019, poster co-author

Scholarships

New National Excellence Program (2022/23)
Ministry for Culture and Innovation

Tudományos Mecenatúra Pályázat (2021)
Ministry of Innovation and Technology

Scholarship for Young National Talents (2021)
Ministry of Human Capacities

Additional Information

Supramolecular and Colloid Chemistry and Physics for the Life Sciences

Online summer school and workshop, 2020

European Olympiad of Experimental Science (EOES)

Member of the organizing committee

Szeged (Hungary), 2021 (online)

European Student Colloid Conference

Member of the organizing committee

Szeged (Hungary), 2022