BOJANA KATANA

PERSONAL INFORMATION

Name, surname	Bojana Katana
Nationality	Serbian
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Web	http://www2.sci.u-szeged.hu/physchem/bioc/
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LinkedIn	https://www.linkedin.com/in/bojana-katana/

EDUCATION AND TRAINING

Sept 2018 – Sept 2022

Doctor of Philosophy – Ph.D. in Chemistry

MTA-SZTE „Lendület" Biocolloids Research Group, Doctoral School of Chemistry

Department of Physical Chemistry and Materials Science, Faculty of Science and Informatics, University of Szeged, Hungary

Mar 2019 – Apr 2019

Institute of Condensed Matter and Nanosciences - Bio and Soft Matter - visiting researcher

Université catholique de Louvain, Louvain-la-Neuve, Belgium

Oct 2017 – July 2018

Master's Degree of Chemistry – Analytical Chemistry

Faculty of Sciences; Department of Chemistry, Biochemistry and Environmental protection, University of Novi Sad, Serbia

May 2016 – June 2016	**Practical Work with Toxins from the River and Drinking Water** *Institute of Public Health, Novi Sad, Serbia*
Oct 2013 – Sept 2017	**Bachelor's Degree of Chemistry – Quality Control and Environmental Management** *Faculty of Sciences; Department of Chemistry, Biochemistry and Environmental protection, University of Novi Sad, Serbia*

WORK EXPERIENCE

May 2023 – Present	**MTA-SZTE „Lendület" Biocolloids Research Group** **Postdoctoral Researcher** *University of Szeged, Hungary* http://www2.sci.u-szeged.hu/physchem/bioc/
Sept 2018 – May 2023	**MTA-SZTE „Lendület" Biocolloids Research Group** **Ph.D. student / Researcher** *University of Szeged, Hungary* http://www2.sci.u-szeged.hu/physchem/bioc/

PERSONAL SKILLS

Mother tongue	Serbian
Other languages	English: fluent German: basic Greek: basic
Computer Skills	Microsoft Office Packages (Word, Excel, PowerPoint, Outlook), Igor, OriginLab, ChemDraw, CorelDRAW

PUBLICATIONS

1) **Katana, B.**; Kókai, K. P.; Sáringer, S.; Szerlauth, A.; Takács, D.; Szilágyi, I., The Influence of Solvents and Colloidal Particles on the Efficiency of Molecular Antioxidants. *Antioxidants*, **2023**, 12, 99.

2) Takács, D.; Péter, T.; Árok Vargáné, Z.; **Katana, B.**; Papović, S.; Gadzuric, S.; Vraneš, M.; Szilagyi, I., Structure–Stability Relationship in Aqueous Colloids of Latex Particles and Gemini Surfactants. *Journal of Physical Chemistry B*, **2022**, 126, 9095-9104.

3) **Katana, B.**; Varga, G.; May. N.V.; Szilagyi, I., Superoxide dismutase mimicking nanocomposites based on immobilization of metal complexes on nanotubular carriers. *Journal of Molecular Structure*, **2022**, 1256, 132492.

4) **Katana, B.**; Takács, D.; Szerlauth, A.; Sáringer, S.; Varga, G.; Jamnik, A.; Bobbink, F.D.; Dyson, P.J.; Szilagyi, I., Aggregation of halloysite nanotubes in the presence of multivalent ions and ionic liquids. *Langmuir,* **2021**, 37, 11869-11879.

5) Takács, D.; **Katana, B.**; Szerlauth, A.; Sebők, D.; Tomšič, M.; Szilágyi, I., Influence of adsorption of ionic liquid constituents on the stability of layered double hydroxide colloids. *Soft Matter*, **2021**, 17, 9116-9124.

6) Alsharif, N. B.; Murath, S.; **Katana, B.**; Szilagyi, I., Composite materials based on heteroaggregated particles: Fundamentals and applications. *Advances in Colloid and Interface Science*, **2021**, 294, 102456.

7) **Katana, B**.; Takács, D.; Csapó, E.; Szabo, T.; Jamnik, A.; Szilagyi, I., Ion specific effects on the stability of halloysite nanotube colloids - Inorganic salts versus ionic liquids. *Journal of Physical Chemistry* B, **2020**, 124, 9757-9765.

8) **Katana, B**.; Takács, D.; Bobbink, F. D.; Dyson, P. J.; Tomsic, M.; Szilagyi, I., Masking specific effects of ionic liquids at the solid-liquid interface by surface functionalization. *Physical Chemistry Chemical Physics,* **2020**, 22, 24764-24770. (shared first authorship)

9) Murath, S.; Alsharif, N. B.; Saringer, S.; **Katana, B.**; Somosi, Z.; Szilagyi, I., Antioxidant materials based on 2D nanostructures: A review on recent progresses. *Crystals*, **2020**, 10, 148.

10) Papovic, S.; Vranes, M.; Tot, A.; Szilagyi, I.; **Katana, B.**; Alenezi, K.; Gadzuric, S., Physicochemical investigations of a binary mixture containing ionic liquid 1-butyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)imide and diethyl carbonate. *Journal of Chemical Engineering Data,* **2020**, 65, 68-80.

11) **Katana, B.**; Rouster, P.; Varga, G.; Muráth, S.; Glinel, K.; Jonas, A.M.; Szilagyi, I., Self-assembly of protamine biomacromolecule on halloysite nanotubes for immobilization of superoxide dismutase enzyme. *ACS Applied Bio Materials*, **2020**, 3, 522-530.

12) Rouster, P.; Pavlovic, M.; Cao, T.; **Katana, B.**; Szilagyi, I., Stability of titania nanomaterials dispersed in aqueous solutions of ionic liquids of different alkyl chain lengths. *Journal of Physical Chemistry* C, **2019**, 123, 12966-12974.

CONFERENCES

- **Bojana Katana**, István Szilágyi, Halloysite nanotube – based nanomaterials as efficient radical scavengers in colloidal dispersions, 38th International Conference on Solution Chemistry, July 9-14, 2023, Belgrade, Serbia, Oral presentation.

- **Bojana Katana**, Dóra Takács, István Szilágyi, Halloysite Nanotube Colloids – Ion Specific Effects and Enzyme Immobilization,18th European Student Colloid Conference, June 26-30, 2022, Szeged, Hungary, Oral presentation.

- **Bojana Katana**, Dóra Takács, István Szilágyi, Effect of inorganic salts and ionic liquid constituents on the stability of halloysite nanotubes particle dispersions, 28th EUCHEM Conference on Molten Salts and Ionic Liquids, June 5-10, 2022, Patras, Greece, Oral presentation.

- **Bojana Katana**, Dóra Takács, István Szilágyi, Halloysite Nanotube Colloids - Role of Ion Specificity, Functionalization with Polyelectrolytes and Enzyme Immobilization, 33rd Australian Colloid and Surface Science Student Conference, 31 January-2 February 2022, Mawson Lakes, South Australia, Oral presentation (online).

- **Bojana Katana**, Dóra Takács, István Szilágyi, Ion specific effects on the stability of halloysite nanotubes colloids, Geneva Colloids 2021, 8-9 April 2021, Geneva, Switzerland, Poster presentation (online).

- **Bojana Katana**, Paul Rouster, Gábor Varga, Szabolcs Muráth, Karine Glinel, Alain M. Jonas, István Szilágyi, Self-assembly of biomacromolecules on halloysite nanotubes, XLII. Kémiai Előadói Napok, 28-30 October 2019, Szeged, Hungary, Oral presentation.

- **Bojana Katana**, Paul Rouster, István Szilágyi, Immobilization of superoxide dismutase on protamine-functionalized halloysite nanotubes, 33rd Conference of the European Colloid and Interface Society (ECIS), 8-13 September 2019, Leuven, Belgium, Poster presentation.

- **Bojana Katana**, Paul Rouster, István Szilágyi, Immobilization of enzymes for development of biocatalytic systems in stable dispersions, 56th Meeting of the Serbian Chemical Society, 7-8 June 2019, Nis, Serbia, Poster presentation.

ADDITIONAL INFORMATION

Teaching activity

2018/19 - General Chemistry Laboratory
2019/20 - General Chemistry Laboratory

Memberships

Serbian Chemical Society – SCS
Chemical Society of Vojvodina, Serbia

Awards

Scholarship holder of the Ministry of Education, Science and Technological Development of the Republic of Serbia for BSc studies (2014-2017)

Awards of the University of Novi Sad for exceptional success during BSc and MSc studies (2014-2018)

Best Poster Presentation (First prize) at Geneva Colloids Conference 2021